

457(b) Deferred Compensation and OBRA Plans

December 31, 2022 Performance Report

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TABLE OF CONTENTS

Section 1 Market Overview

Section 2 Plan Reviews

Plan Review - Combined 457(b) DC Plans

Plan Review - State Employees 457(b) DC Plan

Plan Review - Political Subdivisions 457(b) DC Plan

Plan Review - Nevada System of Higher Education 457(b) DC Plan

Plan Review - FICA Alternative OBRA Plan

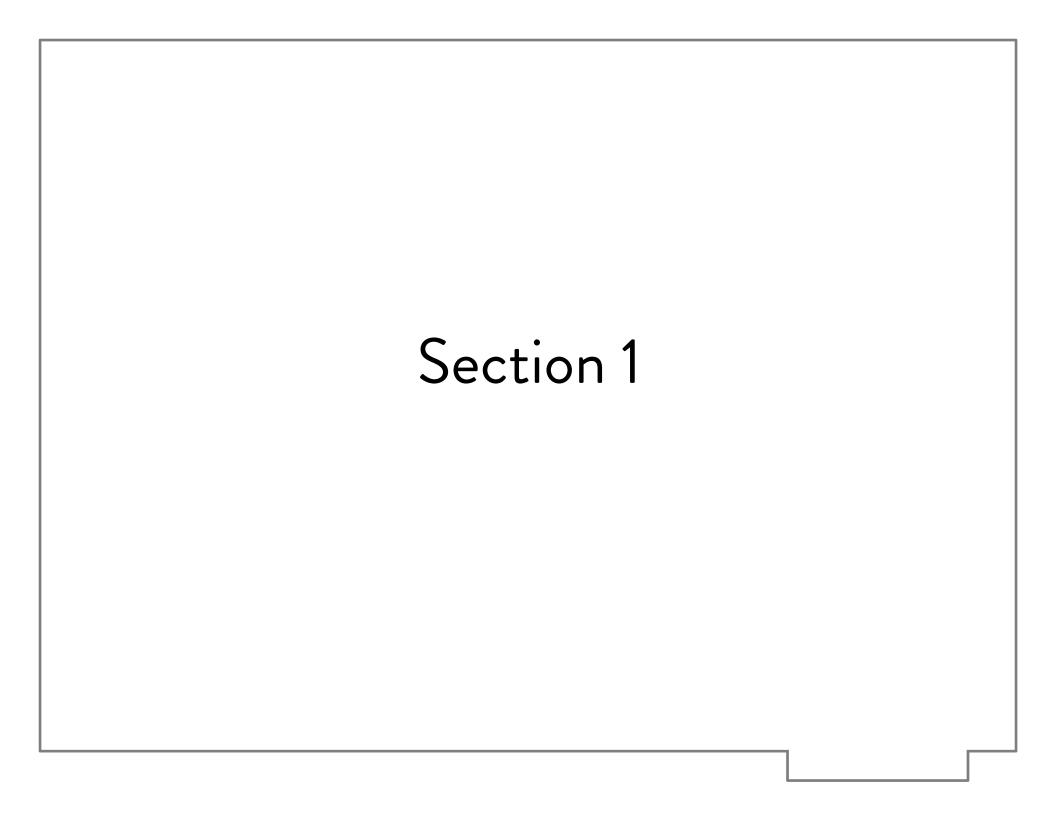
Section 3 Investment Performance Review

Section 4 Plan Fee/Revenue Reviews

Plan Fee/Revenue Review - Combined 457(b) DC Plans

Plan Fee/Revenue Review - FICA Alternative OBRA Plan

Section 5 Fund Attributions





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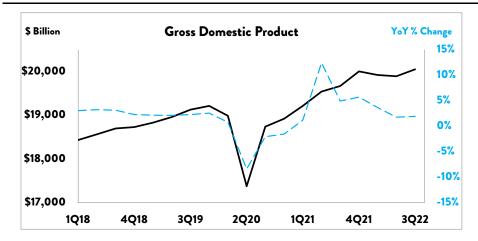
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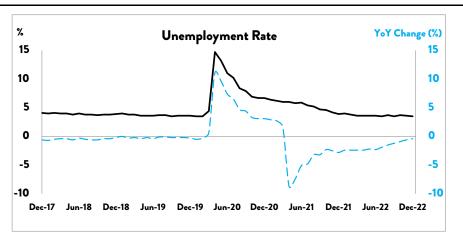
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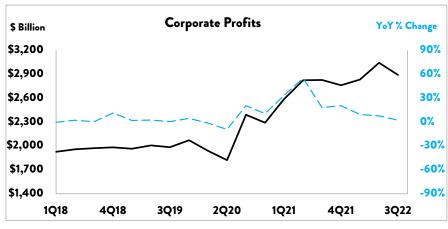
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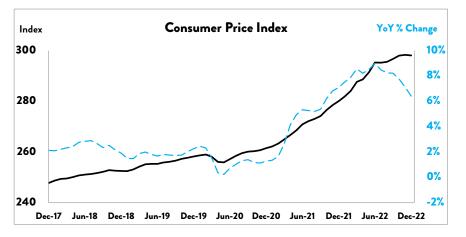
⁸ Source: Morgan Stanley Global Investment Committee Weekly January 3, 2023

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			

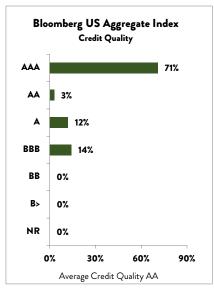
Source: Federal Reserve Bank of St. Louis and Bureau of Labor Statistics

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

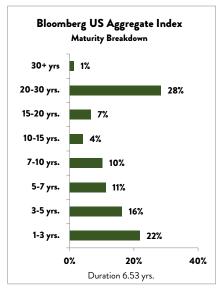
4Q2022 Bond Market Data

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%

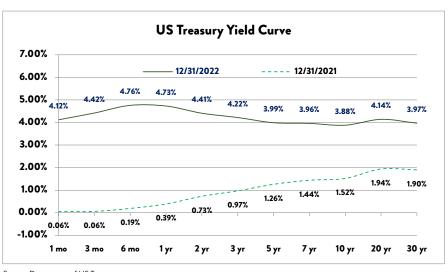
Source: Morningstar



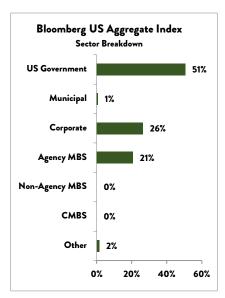
Source: Morningstar



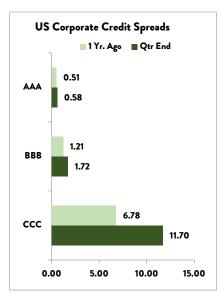
Source: Morningstar



Source: Department of US Treasury



Source: Morningstar



Source: Federal Reserve / Bank of America

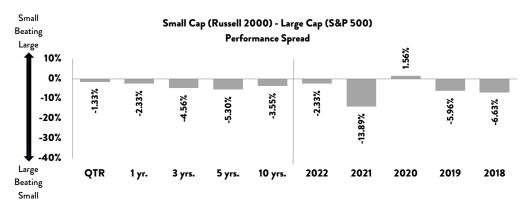
4Q2022 US Equity Market Data

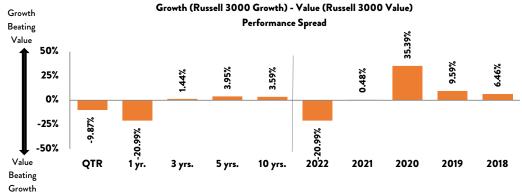
Sec	tors Weigl	hts/Returns (ranked by qua	rter performand	ce)	
	Wgt.	Sector	QTR	YTD	1 yr.
	5%	Energy	22.81%	65.72%	65.72%
	9%	Industrials	19.22%	-5.48%	-5.48%
	3%	Materials	15.05%	-12.27%	-12.27%
dex	12%	Financials	13.61%	-10.53%	-10.53%
-	16%	Health Care	12.80%	-1.95%	-1.95%
S&P 500	7%	Consumer Staples	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%
Midcap 400 Index	20%	Industrials	12.77%	-11.50%	-11.50%
0	4%	Utilities	11.62%	-0.15%	-0.15%
9 40	4%	Consumer Staples	11.59%	-0.77%	-0.77%
dcap	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%
0,	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%
<u><u>e</u></u>	3%	Utilities	12.64%	-1.84%	-1.84%
S&P Smallcap 600 Index	6%	Materials	11.51%	-6.09%	-6.09%
9 de	13%	Consumer Discretionary	10.91%	-27.82%	-27.82%
=======================================	5%	Consumer Staples	9.76%	-6.47%	-6.47%
S	8%	Real Estate	9.01%	-29.50%	-29.50%
80	13%	Information Technology	8.09%	-22.36%	-22.36%
V)	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%

Source: Morningstar

Index Performance Data

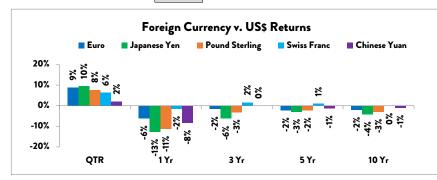
					Annualized	
Index	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
S&P 500	7.56%	-18.11%	-18.11%	7.66%	9.42%	12.56%
Russell 1000 Value	12.42%	-7.54%	-7.54%	5.96%	6.67%	10.29%
Russell 1000 Growth	2.20%	-29.14%	-29.14%	7.79%	10.96%	14.10%
Russell Mid Cap	9.18%	-17.32%	-17.32%	5.88%	7.10%	10.96%
Russell Mid Cap Value	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%





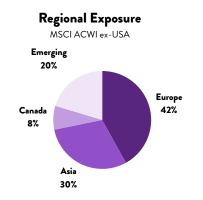
4Q2022 International Market Data

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%



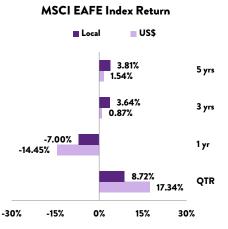
Exchange Rates	QTR	3Q22	2Q22	1Q22	4Q21	3Q21
Japanese Yen	131.81	144.71	135.69	121.44	115.17	111.50
Euro	0.93	1.02	0.96	0.90	0.88	0.86
British Pound	0.83	0.90	0.82	0.76	0.74	0.74
Swiss Franc	0.92	0.98	0.96	0.92	0.91	0.93
Chinese Yuan	6.90	7.11	6.70	6.34	6.37	6.44

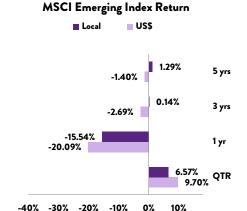
Source: Federal Reserve Bank of St. Louis

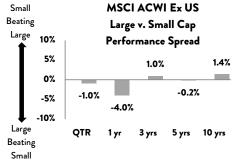


Top 10 Countries (MSCI AC World	ex-USA)
Japan	14%
UK	10%
China	9%
Canada	8%
France	8%
Switzerland	7%
Germany	5%
Australia	5%
India	4%
Taiwan	4%

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%	Commod1.06%	Commod9.52%	Commod17.00%	Commod24.60%	Cash 0.25%	Cash 0.71%	Emerging Markets -14.58%	Cash 2.30%	Commod. -3.12%	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

Section 2

PLAN ASSET ALLOCATION

Fourth Quarter 2022

Combined 457(b) DC Plans

Fixed Income	Ticker	Assets	%
Voya Fixed Account	-	\$341,746,806	36.0%
Vanguard Total Bond Market Index I	VBTIX	\$33,422,490	3.5%
Sterling Capital Total Return Bond R6	STRDX	\$1,203,853	0.1%
	Total	\$376,373,149	39.7%

Large Cap	Ticker	Assets	%
MFS Value R4	WEIJX	\$22,045,586	2.3%
Vanguard Institutional Index Instl Plus	VIIIX	\$124,585,406	13.1%
T. Rowe Price Growth Stock I	PRUFX	\$51,341,528	5.4%
	Total	\$197,972,520	20.9%

Mid Cap	Ticker	Assets	%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$8,096,976	0.9%
Vanguard Extended Market Index Instl Plus	VEMPX	\$89,477,629	9.4%
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$18,391,145	1.9%
	Total	\$115,965,749	12.2%

International	Ticker	Assets	%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$39,026,556	4.1%
American Funds EuroPacific Growth R6	RERGX	\$6,124,143	0.6%
	Total	\$45,150,698	4.8%

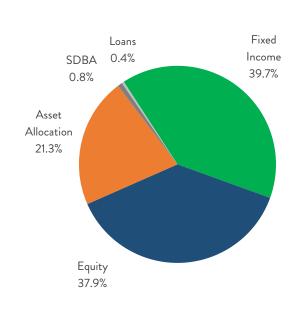
Asset Allocation	Ticker	Assets	%
Vanguard Target Retirement Income Trust II	-	\$40,019,790	4.2%
Vanguard Target Retirement 2020 Trust II	-	\$11,372,661	1.2%
Vanguard Target Retirement 2025 Trust II	-	\$40,837,619	4.3%
Vanguard Target Retirement 2030 Trust II	-	\$13,787,270	1.5%
Vanguard Target Retirement 2035 Trust II	-	\$48,615,549	5.1%
Vanguard Target Retirement 2040 Trust II	-	\$7,655,283	0.8%
Vanguard Target Retirement 2045 Trust II	-	\$24,408,779	2.6%
Vanguard Target Retirement 2050 Trust II	-	\$5,077,521	0.5%
Vanguard Target Retirement 2055 Trust II	-	\$6,899,513	0.7%
Vanguard Target Retirement 2060 Trust II	-	\$2,020,317	0.2%
Vanguard Target Retirement 2065 Trust II	-	\$1,230,346	0.1%
Vanguard Target Retirement 2070 Trust II	-	\$19	0.0%
	Total	\$201,924,665	21.3%

Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account		\$7,335,587	0.8%
Participant Loans	-	\$3,505,727	0.4%
	Total	\$10,841,314	1.1%

TOTAL PLAN ASSETS \$948,228,096
Administrative Account Balance (1/18/23) \$271,851

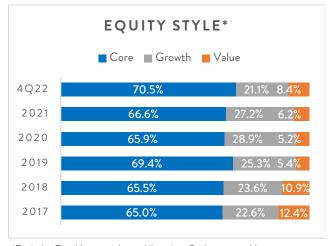
Fourth Quarter 2022

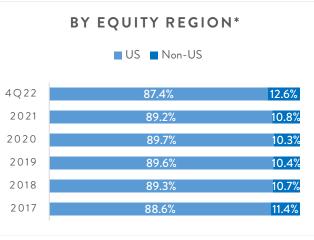
Combined 457(b) DC Plans

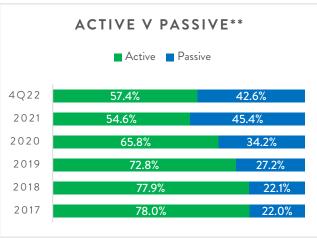


HISTORICAL PLAN ALLOCATION

Asset Class	4Q22	2021	2020	2019	2018	2017	2016	2015
Fixed Income	39.7%	34.0%	36.7%	38.1%	43.8%	41.5%	N/A	N/A
Large Cap	20.9%	24.4%	22.4%	21.8%	18.8%	20.4%	N/A	N/A
Mid Cap	12.2%	14.5%	14.9%	14.4%	13.4%	14.2%	N/A	N/A
International	4.8%	4.7%	4.3%	4.2%	4.0%	4.4%	N/A	N/A
Asset Allocation	21.3%	21.3%	20.7%	20.7%	19.2%	18.7%	N/A	N/A
SDBA	0.8%	0.9%	0.6%	0.4%	0.3%	0.3%	N/A	N/A
Loans	0.4%	0.3%	0.3%	0.4%	0.5%	0.4%	N/A	N/A







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

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

Fourth Quarter 2022

Combined 457(b) DC Plans

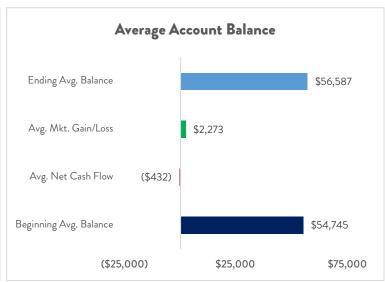
PLAN LEVEL CASH FLOWS

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$380,740,156	\$2,539,410	(\$11,683,878)	\$1,678,093	\$3,099,367	\$376,373,149
Large Cap	\$187,448,137	\$2,435,842	(\$3,292,058)	\$1,181,924	\$10,198,675	\$197,972,520
Mid Cap	\$111,154,756	\$1,439,468	(\$1,476,934)	(\$1,455,989)	\$6,304,447	\$115,965,749
International	\$39,261,230	\$703,652	(\$1,101,464)	\$541,623	\$5,745,657	\$45,150,698
Asset Allocation	\$188,361,755	\$5,894,920	(\$3,016,988)	(\$1,619,478)	\$12,304,457	\$201,924,665
SDBA	\$7,009,668	\$0	\$0	\$23,663	\$302,256	\$7,335,587
Total	\$913,975,702	\$13,013,293	(\$20,571,322)	\$349,836	\$37,954,860	\$944,722,368

HISTORICAL PLAN CASH FLOWS

	Beginning		Market	
	Value	Net Cash Flow	Gain/Loss	Ending Value
4Q22	\$913,975,702	(\$7,208,193)	\$37,954,860	\$944,722,368
YTD	\$1,103,984,931	(\$9,111,229)	(\$150,151,333)	\$944,722,368
2021	\$1,012,211,305	(\$19,402,347)	\$111,175,973	\$1,103,984,931
2020	\$890,766,732	\$942,462	\$120,502,111	\$1,012,211,305
2019	\$771,229,524	(\$7,494,189)	\$127,031,396	\$890,766,732
2018	\$801,580,360	(\$9,496,515)	(\$20,854,320)	\$771,229,524





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

Aggregate Bond (rebalanced quarterly)

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STATE EMPLOYEES PLAN

PLAN ASSET ALLOCATION

Fourth Quarter 2022

457(b) Deferred Compensation Plan

Fixed Income	Ticker	Assets	%
Voya Fixed Account	-	\$241,712,290	38.3%
Vanguard Total Bond Market Index I	VBTIX	\$21,319,098	3.4%
Sterling Capital Total Return Bond R6	STRDX	\$474,858	0.1%
	Total	\$263,506,246	41.7%

Large Cap	Ticker	Assets	%
MFS Value R4	WEIJX	\$14,438,819	2.3%
Vanguard Institutional Index Instl Plus	VIIIX	\$79,449,376	12.6%
T. Rowe Price Growth Stock I	PRUFX	\$32,395,937	5.1%
	Total	\$126,284,132	20.0%

Mid Cap	Ticker	Assets	%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$4,524,815	0.7%
Vanguard Extended Market Index Instl Plus	VEMPX	\$58,299,104	9.2%
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$11,997,485	1.9%
	Total	\$74,821,404	11.8%

International	Ticker	Assets	%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$23,388,447	3.7%
American Funds EuroPacific Growth R6	RERGX	\$3,622,013	0.6%
	Total	\$27,010,460	4.3%

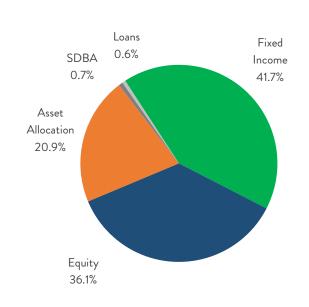
Asset Allocation	Ticker	Assets	%
Vanguard Target Retirement Income Trust II	-	\$31,004,891	4.9%
Vanguard Target Retirement 2020 Trust II	-	\$6,675,560	1.1%
Vanguard Target Retirement 2025 Trust II	-	\$27,118,414	4.3%
Vanguard Target Retirement 2030 Trust II	-	\$7,548,327	1.2%
Vanguard Target Retirement 2035 Trust II	-	\$34,113,370	5.4%
Vanguard Target Retirement 2040 Trust II	-	\$4,234,887	0.7%
Vanguard Target Retirement 2045 Trust II	-	\$13,926,969	2.2%
Vanguard Target Retirement 2050 Trust II	-	\$2,376,438	0.4%
Vanguard Target Retirement 2055 Trust II	-	\$3,689,369	0.6%
Vanguard Target Retirement 2060 Trust II	-	\$863,949	0.1%
Vanguard Target Retirement 2065 Trust II	-	\$599,894	0.1%
Vanguard Target Retirement 2070 Trust II	-	\$19	0.0%
	Total	\$132,152,087	20.9%

Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account	-	\$4,239,420	0.7%
Participant Loans	-	\$3,500,112	0.6%
	Total	\$7,739,532	1.2%

TOTAL PLAN ASSETS	\$631,513,861
Administrative Account Balance (1/18/23)	\$271,851

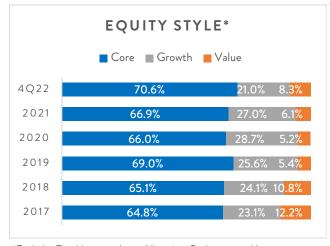
Fourth Quarter 2022

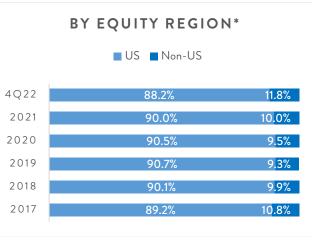
457(b) Deferred Compensation Plan

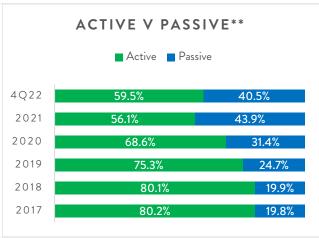


HISTORICAL PLAN ALLOCATION

Asset Class	4Q22	2021	2020	2019	2018	2017	2016	2015
Fixed Income	41.7%	35.4%	38.0%	40.1%	44.9%	42.8%	N/A	N/A
Large Cap	20.0%	23.7%	21.5%	20.6%	18.6%	19.1%	N/A	N/A
Mid Cap	11.8%	14.2%	14.5%	13.8%	12.6%	13.6%	N/A	N/A
International	4.3%	4.2%	3.8%	3.5%	3.4%	4.0%	N/A	N/A
Asset Allocation	20.9%	21.3%	21.2%	21.1%	19.4%	19.6%	N/A	N/A
SDBA	0.7%	0.7%	0.5%	0.3%	0.3%	0.3%	N/A	N/A
Loans	0.6%	0.5%	0.5%	0.6%	0.7%	0.6%	N/A	N/A







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

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

457(b) Deferred Compensation Plan

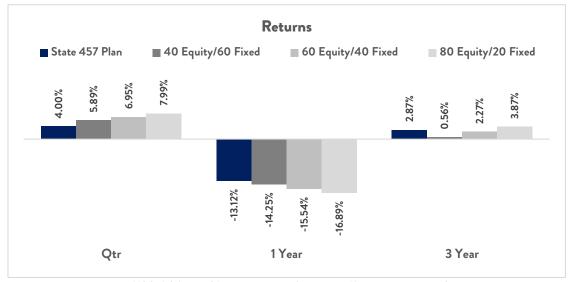
Fourth Quarter 2022

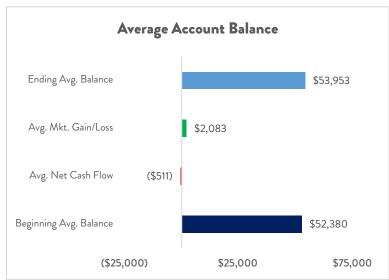
PLAN LEVEL CASH FLOWS

HISTORICAL PLAN CASH FLOWS

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$265,812,574	\$1,763,737	(\$7,696,136)	\$1,487,962	\$2,138,107	\$263,506,246
Large Cap	\$120,607,458	\$1,426,106	(\$2,312,193)	(\$26,601)	\$6,589,361	\$126,284,132
Mid Cap	\$71,881,435	\$811,676	(\$1,049,465)	(\$861,217)	\$4,038,975	\$74,821,404
International	\$23,486,333	\$403,908	(\$667,951)	\$360,556	\$3,427,614	\$27,010,460
Asset Allocation	\$123,884,146	\$3,089,543	(\$1,919,470)	(\$777,161)	\$7,875,028	\$132,152,087
SDBA	\$4,035,768	\$0	\$0	\$23,663	\$179,989	\$4,239,420
Total	\$609,707,715	\$7,494,971	(\$13,645,214)	\$207,202	\$24,249,075	\$628,013,749

			Market	
	Beginning Value	Net Cash Flow	Gain/Loss	Ending Value
4Q22	\$609,707,715	(\$5,943,040)	\$24,249,075	\$628,013,749
YTD	\$736,232,396	(\$11,933,591)	(\$96,285,055)	\$628,013,749
2021	\$680,605,231	(\$16,866,120)	\$72,493,284	\$736,232,396
2020	\$608,234,330	(\$6,442,157)	\$78,813,059	\$680,605,231
2019	\$537,863,111	(\$14,358,576)	\$84,729,795	\$608,234,330
2018	\$562,293,890	(\$11,362,468)	(\$13,068,311)	\$537,863,111





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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POLITICAL SUBDIVISIONS

PLAN ASSET ALLOCATION

457(b) Deferred Compensation Plan

Fourth Quarter 2022

Fixed Income	Ticker	Assets	%
Voya Fixed Account	-	\$83,778,061	35.9%
Vanguard Total Bond Market Index I	VBTIX	\$8,218,013	3.5%
Sterling Capital Total Return Bond R6	STRDX	\$334,476	0.1%
	Total	\$92,330,550	39.6%

Large Cap	Ticker	Assets	%
MFS Value R4	WEIJX	\$6,034,322	2.6%
Vanguard Institutional Index Instl Plus	VIIIX	\$31,240,316	13.4%
T. Rowe Price Growth Stock I	PRUFX	\$14,659,447	6.3%
	Total	\$51,934,085	22.3%

Mid Cap	Ticker	Assets	%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$2,249,185	1.0%
Vanguard Extended Market Index Instl Plus	VEMPX	\$23,195,218	9.9%
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$3,919,755	1.7%
	Total	\$29,364,159	12.6%

International	Ticker	Assets	%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$11,507,070	4.9%
American Funds EuroPacific Growth R6	RERGX	\$1,333,763	0.6%
	Total	\$12,840,834	5.5%

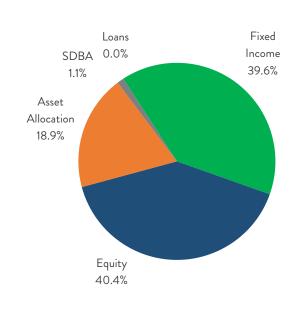
Asset Allocation	Ticker	Assets	%
Vanguard Target Retirement Income Trust II	-	\$4,443,978	1.9%
Vanguard Target Retirement 2020 Trust II	-	\$2,223,694	1.0%
Vanguard Target Retirement 2025 Trust II	-	\$7,926,726	3.4%
Vanguard Target Retirement 2030 Trust II	-	\$3,248,701	1.4%
Vanguard Target Retirement 2035 Trust II	-	\$9,951,822	4.3%
Vanguard Target Retirement 2040 Trust II	-	\$2,104,865	0.9%
Vanguard Target Retirement 2045 Trust II	-	\$8,139,401	3.5%
Vanguard Target Retirement 2050 Trust II	-	\$2,002,737	0.9%
Vanguard Target Retirement 2055 Trust II	-	\$2,636,313	1.1%
Vanguard Target Retirement 2060 Trust II	-	\$1,088,539	0.5%
Vanguard Target Retirement 2065 Trust II	-	\$390,248	0.2%
Vanguard Target Retirement 2070 Trust II	-	\$0	0.0%
	Total	\$44,157,024	18.9%

Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account	-	\$2,563,021	1.1%
Participant Loans	-	\$5,615	0.0%
	Total	\$2,568,636	1.1%

TOTAL PLAN ASSETS \$233,195,288

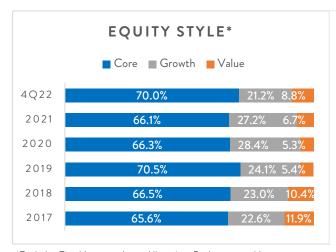
Fourth Quarter 2022

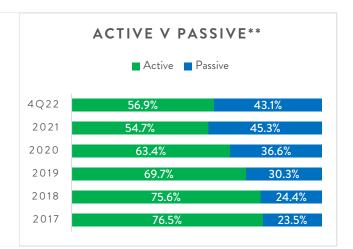
457(b) Deferred Compensation Plan



HISTORICAL PLAN ALLOCATION

Asset Class	4Q22	2021	2020	2019	2018	2017	2016	2015
Fixed Income	39.6%	34.5%	37.9%	37.5%	46.2%	42.5%	N/A	N/A
Large Cap	22.3%	25.5%	24.5%	24.4%	17.5%	22.8%	N/A	N/A
Mid Cap	12.6%	15.1%	15.2%	15.3%	15.1%	15.0%	N/A	N/A
International	5.5%	5.5%	5.3%	5.5%	5.2%	5.1%	N/A	N/A
Asset Allocation	18.9%	18.0%	16.2%	16.6%	15.6%	14.0%	N/A	N/A
SDBA	1.1%	1.5%	0.9%	0.7%	0.5%	0.6%	N/A	N/A
Loans	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	N/A	N/A





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

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

457(b) Deferred Compensation Plan

Fourth Quarter 2022

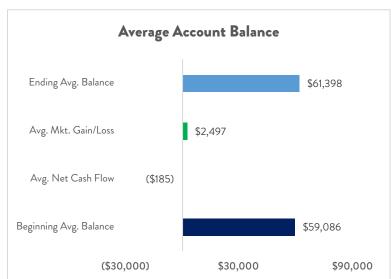
PLAN LEVEL CASH FLOWS

HISTORICAL PLAN CASH FLOWS

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$94,134,620	\$616,774	(\$3,276,801)	\$93,990	\$761,967	\$92,330,550
Large Cap	\$48,535,905	\$727,602	(\$579,585)	\$707,267	\$2,542,896	\$51,934,085
Mid Cap	\$27,860,108	\$463,403	(\$267,820)	(\$265,020)	\$1,573,487	\$29,364,159
International	\$11,082,749	\$220,531	(\$180,182)	\$94,695	\$1,623,042	\$12,840,834
Asset Allocation	\$40,332,883	\$2,053,470	(\$547,064)	(\$562,496)	\$2,880,231	\$44,157,024
SDBA	\$2,460,611	\$0	\$0	\$0	\$102,410	\$2,563,021
Total	\$224,406,878	\$4,081,779	(\$4,851,452)	\$68,435	\$9,484,033	\$233,189,673

			Market	
	Beginning Value	Net Cash Flow	Gain/Loss	Ending Value
4Q22	\$224,406,878	(\$701,237)	\$9,484,033	\$233,189,673
YTD	\$268,237,618	\$2,772,040	(\$37,819,985)	\$233,189,673
2021	\$244,053,779	(\$3,563,244)	\$27,747,083	\$268,237,618
2020	\$211,520,904	\$2,964,561	\$29,568,315	\$244,053,779
2019	\$174,082,438	\$7,146,048	\$30,292,417	\$211,520,904
2018	\$178,524,895	\$683,229	(\$5,125,686)	\$174,082,438





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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NEVADA SYSTEM OF HIGHER EDUCATION

PLAN ASSET ALLOCATION

457(b) Deferred Compensation Plan

Fourth Quarter 2022

Fixed Income	Ticker	Assets	%
Voya Fixed Account	-	\$16,256,454	19.5%
Vanguard Total Bond Market Index I	VBTIX	\$3,885,380	4.7%
Sterling Capital Total Return Bond R6	STRDX	\$394,518	0.5%
\	Total	\$20,536,353	24.6%

Large Cap	Ticker	Assets	%
MFS Value R4	MEIJX	\$1,572,445	1.9%
Vanguard Institutional Index Instl Plus	VIIIX	\$13,895,714	16.6%
T. Rowe Price Growth Stock I	PRUFX	\$4,286,143	5.1%
	Total	\$19,754,303	23.7%

Mid Cap	Ticker	Assets	%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$1,322,975	1.6%
Vanguard Extended Market Index Instl Plus	VEMPX	\$7,983,306	9.6%
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$2,473,905	3.0%
	Total	\$11,780,186	14.1%

International	Ticker	Assets	%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$4,131,039	4.9%
American Funds EuroPacific Growth R6	RERGX	\$1,168,366	1.4%
	Total	\$5,299,404	6.3%

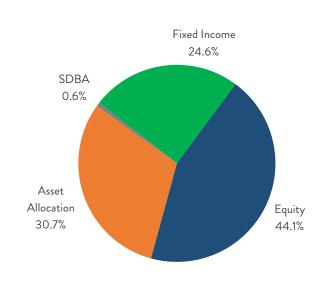
Asset Allocation	Ticker	Assets	%
Vanguard Target Retirement Income Trust II	-	\$4,570,920	5.5%
Vanguard Target Retirement 2020 Trust II	-	\$2,473,407	3.0%
Vanguard Target Retirement 2025 Trust II	-	\$5,792,479	6.9%
Vanguard Target Retirement 2030 Trust II	-	\$2,990,242	3.6%
Vanguard Target Retirement 2035 Trust II	-	\$4,550,357	5.4%
Vanguard Target Retirement 2040 Trust II	-	\$1,315,530	1.6%
Vanguard Target Retirement 2045 Trust II	-	\$2,342,409	2.8%
Vanguard Target Retirement 2050 Trust II	-	\$698,346	0.8%
Vanguard Target Retirement 2055 Trust II	-	\$573,831	0.7%
Vanguard Target Retirement 2060 Trust II	-	\$67,830	0.1%
Vanguard Target Retirement 2065 Trust II	-	\$240,204	0.3%
Vanguard Target Retirement 2070 Trust II	-	\$0	0.0%
	Total	\$25,615,555	30.7%

Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account	-	\$533,146	0.6%
	Total	\$533,146	0.6%

TOTAL PLAN ASSETS \$83,518,946

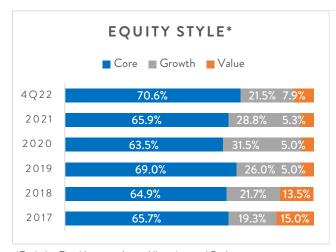
457(b) Deferred Compensation Plan

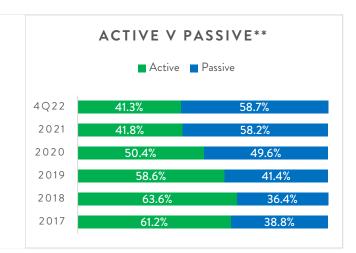
Fourth Quarter 2022



HISTORICAL PLAN ALLOCATION

Asset Class	4Q22	2021	2020	2019	2018	2017	2016	2015
Fixed Income	24.6%	22.3%	22.9%	22.4%	27.3%	26.9%	N/A	N/A
Large Cap	23.7%	26.1%	24.4%	24.4%	24.1%	24.7%	N/A	N/A
Mid Cap	14.1%	15.6%	17.3%	17.1%	15.7%	16.8%	N/A	N/A
International	6.3%	6.1%	5.8%	5.9%	5.8%	6.8%	N/A	N/A
Asset Allocation	30.7%	29.4%	29.1%	29.9%	26.8%	24.7%	N/A	N/A
SDBA	0.6%	0.6%	0.5%	0.3%	0.3%	0.1%	N/A	N/A





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

^{**}Excludes Asset Allocation and Loan assets

457(b) Deferred Compensation Plan

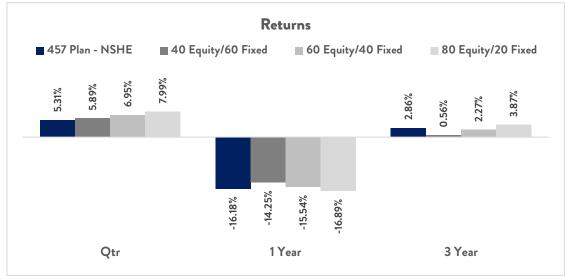
Fourth Quarter 2022

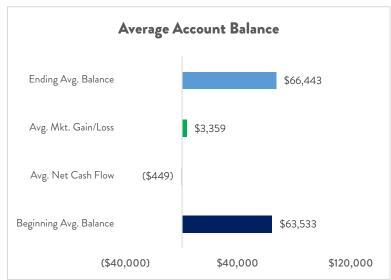
PLAN LEVEL CASH FLOWS

HISTORICAL PLAN CASH FLOWS

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$20,792,962	\$158,899	(\$710,942)	\$96,141	\$199,293	\$20,536,353
Large Cap	\$18,304,773	\$282,135	(\$400,281)	\$501,258	\$1,066,418	\$19,754,303
Mid Cap	\$11,413,214	\$164,389	(\$159,649)	(\$329,752)	\$691,984	\$11,780,186
International	\$4,692,147	\$79,213	(\$253,331)	\$86,373	\$695,002	\$5,299,404
Asset Allocation	\$24,144,725	\$751,907	(\$550,455)	(\$279,821)	\$1,549,199	\$25,615,555
SDBA	\$513,289	\$0	\$0	\$0	\$19,857	\$533,146
Total	\$79,861,110	\$1,436,543	(\$2,074,657)	\$74,199	\$4,221,752	\$83,518,946

			Market	
	Beginning Value	Net Cash Flow	Gain/Loss	Ending Value
4Q22	\$79,861,110	(\$563,916)	\$4,221,752	\$83,518,946
YTD	\$99,514,917	\$50,322	(\$16,046,293)	\$83,518,946
2021	\$87,552,294	\$1,027,017	\$10,935,606	\$99,514,917
2020	\$71,011,498	\$4,420,058	\$12,120,738	\$87,552,294
2019	\$59,283,975	(\$281,661)	\$12,009,184	\$71,011,498
2018	\$60,761,575	\$1,182,723	(\$2,660,323)	\$59,283,975





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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Fourth Quarter 2022

FICA Alternative OBRA Plan

HISTORICAL PLAN CASH FLOWS

Fixed Income	Ticker	Assets	%
Voya Fixed Account - FICA	-	\$58,595,787	100.0%
	Total	\$58,595,787	100.0%

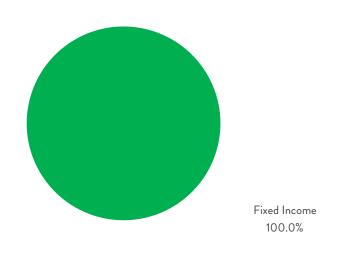
	Beginning Value	Net Cash Flow	Market Gain/Loss	Ending Value
4Q22	\$56,967,098	\$1,307,455	\$321,233	\$58,595,787
YTD	\$53,114,954	\$4,247,755	\$1,233,078	\$58,595,787
2021	\$48,389,052	\$3,600,343	\$1,125,559	\$53,114,954
2020	\$45,103,420	\$2,240,312	\$1,045,320	\$48,389,052
2019	\$40,981,957	\$3,480,620	\$640,843	\$45,103,420
2018	\$36,814,369	\$3,585,657	\$581,931	\$40,981,957

TOTAL PLAN ASSETS

\$58,595,787

Administrative Account Balance (1/18/23)

\$31,839





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Section 3

INVESTMENT POLICY STATEMENT COMPLIANCE REPORT

4Q2022

4Q2022

4Q2022

4Q2022

4Q2022

Combined Retirement Plans

Fourth Quarter 2022

			Investment Policy	Status	
	Performance	Qualitative	On-Watch		Added to
ail	Factors	Factors	Information	Notes	Plan
nt	P	P	-		4Q2004
Α	P	P	-		4Q2004
: I	P	P	-		1Q2010
6	P	P	-		3Q2021
4	P	P	-		3Q2016
ıs	P	P	-		3Q2021
: 1	•	P	1Q22 (Performance)	Trailing benchmark and Peer Group for 5-year period. To be replaced with JP Morgan Large Growth R6 (JLGMX).	4Q2017
m	P	P	-		2Q2017
ıs	P	P	-		3Q2021
m	P	P	-		2Q2022
st	P	P	-		4Q2022
6	P	P	-	Trailing Peer Group for 5-year period.	1Q2019
Í					
II	P	P	-		4Q2022
II	P	P	-		4Q2022
II	P	P	-		4Q2022
П	P	P	-		4Q2022
П	P	P	-		4Q2022
П	P	P	-		4Q2022
II	P	P	-		4Q2022

Key: P Pass / P Caution / ● Fail	Key: P	Pass / P	Caution	/ •	Fail
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Voya Fixed Account
Voya Fixed Account - FICA
Vanguard Total Bond Market Index I
Sterling Capital Total Return Bond R6

MFS Value R4
Vanguard Institutional Index Instl Plus

T. Rowe Price Growth Stock

Vanguard Mid-Cap Value Index Adm Vanguard Extended Market Index Instl Plus Vanguard Mid-Cap Growth Index Adm Vanguard Instl Total Intl Stock Mkt Index Trust American Funds EuroPacific Growth R6

Vanguard Target Retirement Income Trust II
Vanguard Target Retirement 2020 Trust II
Vanguard Target Retirement 2025 Trust II
Vanguard Target Retirement 2030 Trust II
Vanguard Target Retirement 2035 Trust II
Vanguard Target Retirement 2040 Trust II
Vanguard Target Retirement 2045 Trust II
Vanguard Target Retirement 2050 Trust II
Vanguard Target Retirement 2050 Trust II
Vanguard Target Retirement 2050 Trust II
Vanguard Target Retirement 2060 Trust II
Vanguard Target Retirement 2060 Trust II
Vanguard Target Retirement 2065 Trust II
Vanguard Target Retirement 2070 Trust II

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				Annualized								
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Voya Fixed Account	0.74	3.00	3.00	3.07	2.89			3.10	3.10	2.70	2.54	2.75
5 Yr Constant Maturity US Treasury Yield	0.99	3.00	3.00	1.46	1.81	1.68	1.73	0.85	0.54	1.96	2.75	1.91
+/- Index	(0.25)	0.00	0.00	1.61	1.08	-	-	2.25	2.56	0.74	(0.21)	0.84
US Stable Value	3	1	1	1	1	-	N/A	2	1	4	5	1
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Voya Fixed Account FICA	0.56	2.25	2.25	2.25	1.95			2.25	2.25	1.50	1.50	1.50
5 Yr Constant Maturity US Treasury Yield	0.99	3.00	3.00	1.46	1.81	1.68	1.73	0.85	0.54	1.96	2.75	1.91
+/- Index	(0.43)	(0.75)	(0.75)	0.79	0.14	-	-	1.40	1.71	(0.46)	(1.25)	(0.41)
US Stable Value	24	8	8	5	29	-	N/A	3	10	97	83	56
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Total Bond Market Index I	1.67	13.15	13.15	2.73	0.01	1.02	2.63	1.65	7.74	8.73	0.01	3.57
Bloomberg US Aggregate Bond Index	1.87	-13.01	-13.01	-2.71	0.02	1.06	2.66	-1.54	7.51	8.72	0.01	3.54
+/- Index	(0.20)	(0.14)	(0.14)	(0.02)	(0.01)	(0.04)	(0.03)	(0.11)	0.23	0.01	(0.02)	0.03
US Fund Intermediate Core Bond	45	34	34	47	35	40	N/A	55	54	34	27	38
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Sterling Capital Total Return Bond R6	1.57	13.15	13.15	2.08	0.48	1.58	3.35	1.12	9.35	9.37	0.27	4.33
Bloomberg US Aggregate Bond Index	1.87	-13.01	-13.01	-2.71	0.02	1.06	2.66	-1.54	7.51	8.72	0.01	3.54
+/- Index	(0.30)	(0.14)	(0.14)	0.63	0.46	0.52	0.69	0.42	1.84	0.65	(0.28)	0.79
US Fund Intermediate Core Bond	57	34	34	15	11	6	N/A	28	15	18	42	10
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
MFS Value R4	QTR 13.58	YTD 5.90	1Yr 5.90	3Yr 7.03	5Yr 7.53	10Yr 11.18	15Yr 7.73	2021 25.42	2020 3.91	2019 30.08	2018 9.87	2017 17.74
MFS Value R4 Russell 1000 Value Index												
	13.58	5.90	5.90	7.03	7.53	11.18	7.73	25.42	3.91	30.08	9.87	17.74

				Annualized								
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Institutional Index Instl Plus	7.55	18.13	18.13	7.65	9.41	12.55	8.82	28.69	18.41	31.48	4.41	21.82
S&P 500 Index	7.56	-18.11	-18.11	7.66	9.42	12.56	8.81	28.71	18.40	31.49	-4.38	21.83
+/- Index	(0.01)	(0.02)	(0.02)	(0.01)	(0.01)	(0.01)	0.01	(0.02)	0.01	0.00	(0.02)	(0.02)
US Fund Large Blend	56	49	49	30	20	11	N/A	21	32	22	22	32
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
T. Rowe Price Growth Stock I	2.23	40.05	40.05	0.41	5.10	11.35	8.36	20.18	37.09	30.98	0.89	33.84
Russell 1000 Growth Index	2.20	-29.14	-29.14	7.79	10.96	14.10	10.32	27.60	38.49	36.39	-1.51	30.21
+/- Index	(4.43)	(10.91)	(10.91)	(8.20)	(5.86)	(2.75)	(1.96)	(7.42)	(1.40)	(5.41)	0.62	3.63
US Fund Large Growth	91	91	91	90	90	64	N/A	60	40	63	40	16
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Mid-Cap Value Index Adm	12.11	7.90	7.90	6.74	6.39	10.98	8.69	28.76	2.54	27.99	12.42	17.04
Vanguard US Mid Cap Value Index	12.12	-7.84	-7.84	6.76	6.42	11.02	8.74	28.83	2.50	28.05	-12.42	17.12
+/- Index	(0.01)	(0.06)	(0.06)	(0.02)	(0.03)	(0.04)	(0.05)	(0.07)	0.04	(0.06)	0.00	(0.08)
US Fund Mid-Cap Value	42	45	45	45	39	9	N/A	47	52	42	36	15
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Extended Market Index Instl Plus	5.11	26.45	26.45	3.04	4.90	9.65	7.79	12.48	32.24	28.07	9.35	18.13
Vanguard Extended Market Index	5.07	-26.54	-26.54	2.94	4.77	9.52	7.68	12.35	32.17	27.95	-9.57	18.11
+/- Index	0.04	0.09	0.09	0.10	0.13	0.13	0.11	0.13	0.07	0.12	0.22	0.02
US Fund Mid-Cap Blend	94	98	98	87	75	58	N/A	95	2	43	29	30
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Mid-Cap Growth Index Adm	5.69	28.84	28.84	4.86	7.81	10.90	7.77	20.48	34.48	33.86	5.60	21.83
Vanguard US Mid Cap Growth Index	5.70	-28.83	-28.83	4.89	7.86	10.93	7.74	20.51	34.56	33.93	-5.57	21.92
+/- Index	(0.01)	(0.01)	(0.01)	(0.03)	(0.05)	(0.03)	0.03	(0.03)	(80.0)	(0.07)	(0.04)	(0.10)
US Fund Mid-Cap Growth	47	55	55	36	43	45	N/A	15	54	49	56	79

				Annualized								
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Instl Total Intl Stock Mkt Index Trust	14.73	15.92	15.92	0.63	1.21			8.73	11.48	21.68	14.35	27.61
Vanguard Total International Stock Index	14.14	-16.10	-16.10	0.52	1.10	4.20	1.67	8.84	11.24	21.81	-14.62	27.41
+/- Index	0.59	0.18	0.18	0.11	0.11	-	-	(0.11)	0.24	(0.13)	0.27	0.20
US Fund Foreign Large Blend	79	50	50	49	49	-	N/A	63	38	58	38	28
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
American Funds EuroPacific Growth R6	13.78	22.72	22.72	0.15	1.54	5.30	3.10	2.84	25.27	27.40	14.91	31.17
MSCI ACWI Ex-USA Growth (Net) Index	12.89	-23.05	-23.05	-0.40	1.49	4.68	2.10	5.09	22.20	27.34	-14.43	32.01
+/- Index	0.89	0.33	0.33	0.25	0.05	0.62	1.00	(2.25)	3.06	0.06	(0.48)	(0.84)
US Fund Foreign Large Growth	50	30	30	54	56	37	N/A	77	34	63	56	48
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Target Retirement Income Trust II	3.78	12.73	12.73	0.37	2.34	3.66	4.07	5.25	10.08	13.28	2.00	8.60
Vanguard Retirement Income Index	3.95	-12.44	-12.44	0.72	2.58	3.86	4.18	5.43	10.70	13.40	-1.98	8.67
+/- Index	(0.17)	(0.29)	(0.29)	(0.35)	(0.24)	(0.20)	(0.11)	(0.18)	(0.63)	(0.12)	(0.03)	(0.07)
US Fund Target-Date Retirement	60	49	49	31	28	27	N/A	64	29	44	18	46
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Target Retirement 2020 Trust II	5.00	14.14	14.14	1.37	3.27	5.89	4.87	8.24	12.10	17.69	4.19	14.19
Vanguard Retirement 2020 Index	5.12	-13.77	-13.77	1.81	3.58	6.13	5.03	8.43	12.86	17.87	-4.14	14.22
+/- Index	(0.12)	(0.37)	(0.37)	(0.44)	(0.31)	(0.24)	(0.16)	(0.19)	(0.76)	(0.18)	(0.05)	(0.03)
US Fund Target-Date 2020	68	40	40	45	35	20	N/A	60	38	32	45	19
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Target Retirement 2025 Trust II	6.05	15.44	15.44	1.76	3.68	6.52	5.12	9.90	13.39	19.75	5.07	16.04
Vanguard Retirement 2025 Index	6.16	-15.02	-15.02	2.23	4.01	6.77	5.30	10.10	14.19	19.93	-5.01	16.08
+/- Index	(0.11)	(0.42)	(0.42)	(0.47)	(0.33)	(0.25)	(0.18)	(0.20)	(0.79)	(0.18)	(0.07)	(0.04)
US Fund Target-Date 2025	39	48	48	35	26	16	N/A	45	29	17	43	19

				Annualized								
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Target Retirement 2030 Trust II	6.79	16.16	16.16	2.19	4.02	7.07	5.32	11.46	14.19	21.15	5.79	17.60
Vanguard Retirement 2030 Index	6.92	-15.71	-15.71	2.66	4.35	7.33	5.50	11.65	14.96	21.33	-5.74	17.65
+/- Index	(0.13)	(0.45)	(0.45)	(0.47)	(0.33)	(0.26)	(0.18)	(0.19)	(0.78)	(0.18)	(0.05)	(0.05)
US Fund Target-Date 2030	42	43	43	43	34	22	N/A	53	33	35	37	33
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Target Retirement 2035 Trust II	7.51	16.52	16.52	2.75	4.44	7.66	5.64	13.07	14.92	22.57	6.54	19.18
Vanguard Retirement 2035 Index	7.41	-16.22	-16.22	3.14	4.73	7.91	5.79	13.24	15.67	22.76	-6.48	19.24
+/- Index	0.10	(0.30)	(0.30)	(0.39)	(0.29)	(0.25)	(0.15)	(0.17)	(0.75)	(0.19)	(0.06)	(0.06)
US Fund Target-Date 2035	57	35	35	47	35	25	N/A	74	37	45	29	37
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Target Retirement 2040 Trust II	8.19	16.94	16.94	3.26	4.82	8.14	5.98	14.68	15.57	23.97	7.30	20.81
Vanguard Retirement 2040 Index	8.23	-16.51	-16.51	3.70	5.14	8.42	6.14	14.85	16.31	24.19	-7.22	20.87
+/- Index	(0.04)	(0.43)	(0.43)	(0.44)	(0.32)	(0.28)	(0.16)	(0.17)	(0.73)	(0.22)	(80.0)	(0.06)
US Fund Target-Date 2040	64	33	33	44	32	20	N/A	78	39	44	32	26
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Target Retirement 2045 Trust II	8.90	17.33	17.33	3.79	5.20	8.41	6.14	16.33	16.27	25.07	7.86	21.51
Vanguard Retirement 2045 Index	8.99	-16.84	-16.84	4.26	5.55	8.71	6.33	16.45	17.03	25.36	-7.77	21.54
+/- Index	(0.09)	(0.49)	(0.49)	(0.47)	(0.35)	(0.30)	(0.19)	(0.12)	(0.76)	(0.29)	(0.10)	(0.03)
US Fund Target-Date 2045	52	30	30	30	25	18	N/A	61	35	36	39	21
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Target Retirement 2050 Trust II	9.24	17.45	17.45	3.87	5.25	8.43	6.18	16.60	16.42	25.05	7.83	21.48
Vanguard Retirement 2050 Index	9.18	-17.07	-17.07	4.30	5.58	8.72	6.34	16.77	17.18	25.36	-7.77	21.54
+/- Index	0.06	(0.38)	(0.38)	(0.43)	(0.33)	(0.29)	(0.16)	(0.17)	(0.76)	(0.31)	(0.06)	(0.05)
US Fund Target-Date 2050	42	28	28	29	22	18	N/A	62	35	42	32	27

STATE OF NEVADA

Combined Retirement Plans

				-	Annualize	d						
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Target Retirement 2055 Trust II	9.23	17.44	17.44	3.87	5.25	8.41		16.59	16.41	25.07	7.85	21.49
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
+/- Index	0.05	(0.37)	(0.37)	(0.43)	(0.33)	(0.31)	-	(0.18)	(0.76)	(0.29)	(0.09)	(0.05)
US Fund Target-Date 2055	48	25	25	30	23	23	N/A	68	38	43	34	35
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Target Retirement 2060 Trust II	9.25	17.41	17.41	3.90	5.27	8.42		16.56	16.50	25.09	7.85	21.51
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
+/- Index	0.07	(0.34)	(0.34)	(0.40)	(0.31)	(0.30)	-	(0.21)	(0.68)	(0.27)	(0.09)	(0.03)
US Fund Target-Date 2060	51	24	24	32	27	50	N/A	73	38	48	30	34
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Target Retirement 2065 Trust II	9.23	17.40	17.40	3.88	5.30			16.54	16.45	25.11	7.70	
Vanguard Retirement 2065 Index	9.18	-17.07	-17.07	4.30	5.58	-	-	16.77	17.18	25.36	-7.77	-
+/- Index	0.05	(0.33)	(0.33)	(0.42)	(0.28)	-	-	(0.23)	(0.73)	(0.25)	0.07	-
US Fund Target-Date 2065+	52	18	18	28	19	-	N/A	64	51	59	-	-
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2021	2020	2019	2018	2017
Vanguard Target Retirement 2070 Trust II	9.30											
Vanguard Retirement 2070 Index	9.18	-	-	-	-	-	-	-	-	-	-	-
+/- Index	0.12	-	_	-	_	-	_		-	-	-	_
US Fund Target-Date 2065+	41	-	-	-	-	-	N/A	-	-	-	-	-

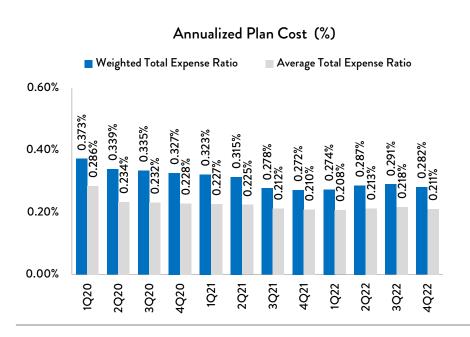
Section 4

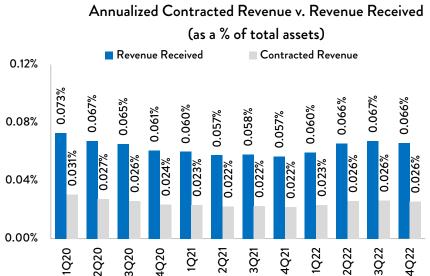
2Q22

3Q22

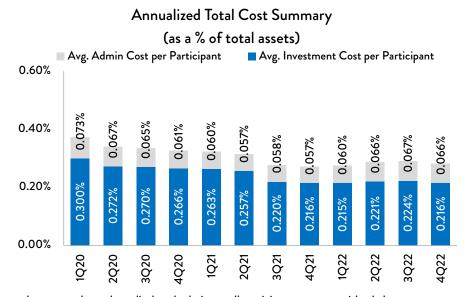
4Q22

Combined 457(b) DC Plans





Average Participant Balance and Cost (\$) Avg. Part Balance Avg. Invest Cost Avg. Admin Cost \$90,000 \$66,453 \$65,076 \$64,680 \$62,525 \$62,441 \$61,303 \$56,009 \$55,585 \$56,587 \$54,910 \$53,079 \$47,518 \$60,000 \$30,000 \$166 \$163 \$142 \$144 \$141 \$133



^{*}Administration costs are only charged to accounts with balances over \$1,000. For reporting purposes the total amounts charged are displayed relative to all participant accounts with a balance.

\$0

1Q20

2Q20

3Q20

4Q20

1021

2Q21

3Q21

4Q21

1Q22

Annualized

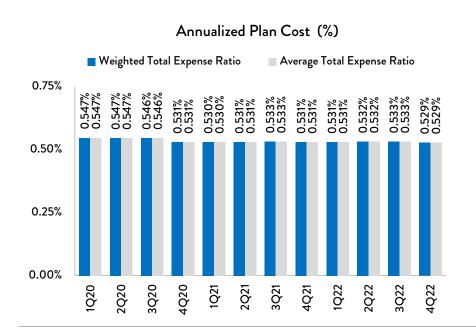
		Quarter End			Est. Total Invest.	Est. Total Admin.
Fund	Ticker	Balance	Net Expense Ratio	Admin Fee	Cost	Cost
Voya Fixed Account	-	\$341,746,806	0.400%	0.07%	\$1,366,987	\$225,171
Vanguard Total Bond Market Index I	VBTIX	\$33,422,490	0.035%	0.07%	\$11,698	\$22,022
Sterling Capital Total Return Bond R6	STRDX	\$1,203,853	0.350%	0.07%	\$4,213	\$793
MFS Value R4*	MEIJX	\$22,045,586	0.400%	0.07%	\$88,182	\$14,525
Vanguard Institutional Index Instl Plus	VIIIX	\$124,585,406	0.020%	0.07%	\$24,917	\$82,087
T. Rowe Price Growth Stock I	PRUFX	\$51,341,528	0.510%	0.07%	\$261,842	\$33,828
Vanguard Mid-Cap Value Index Adm	VMVAX	\$8,096,976	0.070%	0.07%	\$5,668	\$5,335
Vanguard Extended Market Index Instl Plus	VEMPX	\$89,477,629	0.040%	0.07%	\$35,791	\$58,955
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$18,391,145	0.070%	0.07%	\$12,874	\$12,118
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$39,026,556	0.080%	0.07%	\$31,221	\$25,714
American Funds EuroPacific Growth R6	RERGX	\$6,124,143	0.460%	0.07%	\$28,171	\$4,035
Vanguard Target Retirement Income Trust II	-	\$40,019,790	0.075%	0.07%	\$30,015	\$26,368
Vanguard Target Retirement 2020 Trust II	-	\$11,372,661	0.075%	0.07%	\$8,529	\$7,493
Vanguard Target Retirement 2025 Trust II	-	\$40,837,619	0.075%	0.07%	\$30,628	\$26,907
Vanguard Target Retirement 2030 Trust II	-	\$13,787,270	0.075%	0.07%	\$10,340	\$9,084
Vanguard Target Retirement 2035 Trust II	-	\$48,615,549	0.075%	0.07%	\$36,462	\$32,032
Vanguard Target Retirement 2040 Trust II	-	\$7,655,283	0.075%	0.07%	\$5,741	\$5,044
Vanguard Target Retirement 2045 Trust II	-	\$24,408,779	0.075%	0.07%	\$18,307	\$16,083
Vanguard Target Retirement 2050 Trust II	-	\$5,077,521	0.075%	0.07%	\$3,808	\$3,345
Vanguard Target Retirement 2055 Trust II	-	\$6,899,513	0.075%	0.07%	\$5,175	\$4,546
Vanguard Target Retirement 2060 Trust II	-	\$2,020,317	0.075%	0.07%	\$1,515	\$1,331
Vanguard Target Retirement 2065 Trust II	-	\$1,230,346	0.075%	0.07%	\$923	\$811
Vanguard Target Retirement 2070 Trust II	-	\$19	0.075%	0.07%	\$0	\$0
Self-Directed Brokerage Account	-	\$7,335,587	-	0.07%	-	\$4,833
TOTAL		\$944,722,368			\$2,023,008	\$622,462

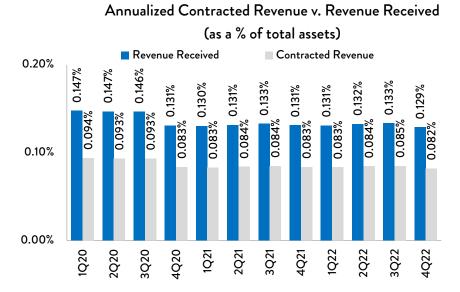
Plan Administration Cost	Quarter	Annualized
Plan Generated Revenue (\$41.00 per ppt with >\$1,000 bal) (est):	\$155,616	\$622,462
Contracted Revenue (\$14.50 per participant) (est):	\$60,519	\$242,078
Net Excess/(Deficit) (est):	\$95,096	\$380,385

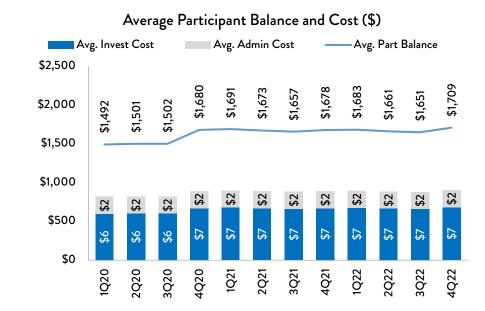
^{*}Revenue derived from funds credited to participant accounts in which they are held. For fee reporting purposes, the credit has been used to offset the reported fund expense ratio. An expense ratio of 0.40% was assumed for the Voya Fixed Account.

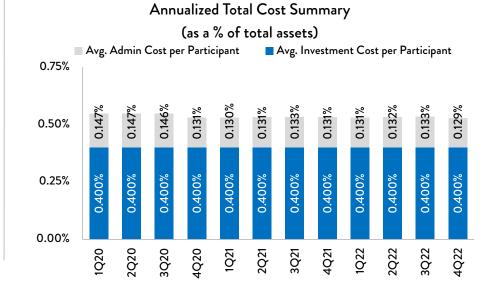
Fourth Quarter 2022

FICA Alternative OBRA Plan









STATE OF NEVADA

FICA Alternative OBRA Plan

PLAN FEE ANALYSIS

Fourth Quarter 2022

Annualized

Fund	Ticker	Quarter End Balance	Net Expense Ratio	Admin Fee
Voya Fixed Account - FICA	-	\$58,595,787	0.40%	0.13%
TOTAL		\$58,595,787		

Est. Total Invest.	Est. Total Admin.
Cost	Cost
\$234,383	\$75,409
\$234,383	\$75,409

Plan Administration Cost	Quarter	Annualized
Plan Generated Revenue (\$2.20 per participant) (est):	\$18,852	\$75,409
Contracted Revenue (\$1.40 per participant) (est):	\$11,997	\$47,988
Net Excess/(Deficit) (est):	\$6,855	\$27,422

An expense ratio of 0.40% was assumed for the Voya Fixed Account.

Section 5

Growth R6 (USD) American Funds Europacific

07-29-2022

Morningstar Analyst Rating™ Overall Morningstar Rating™

★★★ Growth 399 US Fund Foreign Large

USA NR USD

92

MSCI ACWI Ex OSD

Standard Index

USA Growth NR MSCI ACWI Ex Category Index

Growth

US Fund Foreign Large **Morningstar Cat**

Category Average 16,379 Standard Index Growth R6 American Funds Europacific

20k

<u>.</u> , 99.

<u>,</u>

14,638

4

Performance Quartile

	(within category)
12-22	History
49.03	NAV/Price
-22.72	Total Return %
-6.72	+/- Standard Index
0.33	+/- Category Index
)	

469	59	0.06	5.89	27.40	55.55
447	జ	3.06	14.61	25.27	69.30
450	80	-2.26	-4.99	2.84	64.73
443	æ	0.33	-6.72	-22.72	49.03
No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price

341 361 363 399 439 469 447 450 443	347 367	363	399	439	469 44	4/ 450	443	No. of Funds in Cat	
Portfolio Analysis 12-31-2022	22								
Asset Allocation %	Net %	Long %	Short %	Share Chg		Share Holdings:	:	!	Net Assets
Cash	5.30	5.79	0.49	since	Amoun	1 349 Total 3	Stocks , 8 To	Amount 349 Total Stocks , 8 Total Fixed-Income,	%
US Stocks	2.08	2.08	0.00	03-2022	3	Z3 % Tulliovel nauo	Wei nauo		
Non-US Stocks	91.93	91.93	0.00	•	36 MI	36 MII NOVO NORDISK A/S CIASS B	ordisk A/S	Class B	3.69
Bonds	0.30	0.30	0.00	⊕	131 mi	131 mil Reliance Industries Ltd	Industries	Ltd	3.08
Other/Not Clsfd	0.39	0.39	0.00	⊕	5 mi	I LVMH N	10et Henne	5 mil LVMH Moet Hennessy Louis Vuitton SE	2.80
									,

~	0		H		H	-
ity Style	DIE					
Style Blend Grawth	niowni					
		е	ebu	biM		Ilsm2
Portfolio Statistics	D/E Datio TTM	F/E hallo I livi	P/C Ratio TTM	P/B Ratio TTM	Can A MI+ Can	\$mil
Port Avg	100	0.9	11.7	2.8	30703	53/35
Rel	1 1 1	4	1.38	1.76	0	C C
Cat Be	000	0.00	0.86	0.93	4	Ξ

ž ĸ

> 띹 Total



Management Fees %

Fund Expenses Deferred Load %

Gross Expense Ratio % Net Expense Ratio % 12b1 Expense %

Risk and Return Profile

399 funds

5 Yr 346 funds 3★

226 funds

10 Yı

0.46 0.46 0.41

R

3 ★

Front-End Load %

Sales Charges

Fees and Expenses

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

100.00

100.49

0.49

 \oplus \oplus \oplus

5 mil 131 mil

3.08 2.80 2.40

2.33

Canadian Natural Resources Ltd LVMH Moet Hennessy Louis Vuitton SE ASML Holding NV

month-end, please call 800-421-4225 or visit

principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than

does not guarantee future results. The investment return and The performance data quoted represents past performance and

their original cost.

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

Performance Disclosure 30-day SEC Yield 12-31-22

(if applicable) Morningstar metrics.

7-day Yield

No. in Cat % Rank Cat +/- Cat Index

399 58

346

Subsidized

Unsubsidized

2011

2012

2013

2014

2015

2016

2017

2018

2019

2020

2021

0.77

0.77

0.90 0.40

2.97 2.81

5.09 5.29

5.18 0.77 -0.48

-3.48 0.89

66

20

-0.84 3.98

-0.48

-13.31 35.13

19.64 41.18

20.58 49.03

47.09 -2.29 1.57 0.36

1.01

-14.91

56.14 31.17

45.32

45.04

44.99 -0.71

+/- Std Index

-6.72

0.33

0.04 0.65

0.62

1.50

-0.22 0.24 -0.15

8

63

40

Std 12-31-2022 Load-adj Mthly Trailing Returns

1

3 Υ

5 Yr

10 Yr

-0.15

1.54

5.30

Incept 7.25

Total Return

-22.72 -22.72 -22.72

1.54 1.54

5.30 5.30

7.25 7.25

2021 2020 Quarterly Returns

-12.24 -22.43

-14.65

-9.33 -2.35

13.78 19.95 4th Otr

2.84 -22.72

-0.43

6.97

-1.13

Performance 12-31-2022

1st Otr

2nd Otr 22.77

3rd Otr

Total %

91

92

90

88

89

93

92

92

97

95

94

Equity Stocks %

Investment Style

Growth of \$10,000

9.66

25.27





MO]		
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1 10	12.0	Consumor Civilian
1.03	8.6	Basic Materials
0.83	35.3	∿ Cyclical
Rel Std Index	Stocks %	Sector Weightings
1.20	Safran SA	⊕ 13 mil
1.25	Kotak Mahindra Bank Ltd	① 74 mil
1.26	AstraZeneca PLC	⊕ 12 mil
1.31	Fortescue Metals Group Ltd	⊕ 123 mil
1.35	Nestle SA	⊕ 15 mil
1.40	Sea Ltd ADR	⊕ 35 mil
1.89	Taiwan Semiconductor Manufacturing	① 170 mil
2.07	Daiichi Sankyo Co Ltd	① 85 mil
2.12	Airbus SE	① 23 mil
2.19	AIA Group Ltd	⊕ 260 mil

	0.89	1.03	1.31	Std Index			I		1) h	0,0	
▼ Utilities	◆ Healthcare	Consumer Defensive	→ Defensive	Technology	Industrials	▲ Energy	Communication Services	∨ Sensitive	Real Estate	Financial Services	Consumer Cyclical	Basic Materials	∿ Cyclical	
1.2	14.3	7.4	22.8	14.6	13.8	10.3	3.2	41.9	0.6	13.1	12.9	8.6	35.3	0 0 0
0.36	1.43	0.85	1.04	1.34	1.14	1.68	0.50	1.18	0.25	0.63	1.19	1.03	0.83	

	Onerations	Potential Cap Gains Exp	12-Month Yield	R-Squared	Beta	Alpha
American Funds		ω.		94.42	1.07	0.08

	31.34%	Gains Exp	Gain
	1.47%		bld
Greater Dolope	95.32	94.42	
Greater Europe	1.11	1.07	
A	0.65	0.08	
Regional Exposure	NR USD		
	xUS Growth TME		
NR	Morningstar Gbl		
Below B	Best Fit Index	Standard Index	

Mean

Standard Deviation

21.46 -0.15

18.75 1.54 0.10

15.17 5.30 0.36

88 88

0.06

Sharpe Ratio

Morningstar Risk

Morningstar Return Morningstar Rating™

Avg Avg

3★ Avg

Credit Quality Breakdown AAA

3 Y

5 Yr Avg Avg

10 Yr

₽

MPT Statistics

Stocks %

Вe

14.2 46.2 39.7

Min Auto Investment Plan:	Minimum Initial Purchase:	ISIN:	Ticker:	
\$250	\$250	US2987068218	RERGX	

Manager:

Tenure:

Base Currency: Objective:

> Foreign Stock 21.6 Years Multiple

Minimum IRA Purchase:	Min Auto Investment Plan:	Minimum Initial Purchase:	ISIN:	Ticker:
\$25	\$250	\$250	US2987068218	RERGX

\$25	\$250	\$250	US2987068218	RERGX
	Total Assets:	Type:	Incept:	Purchase Constraints:

05-01-2009

\$141,041.35 mil

MFS Value R4 (USD)

Morningstar Analyst Rating™ Overall Morningstar Rating™ Standard Index ▼ Gold ★★★★ 5&P 500 TR USE 1,155 US Fund Large Value

S&P 500 TR USD

Russell 1000 Value US Fund Large Value TR USD

Category Index

Morningstar Cat

2020 Quarterly Returns No. in Cat +/- Cat Index +/- Std Index Std 12-31-2022 Load-adj Mthly 2022 2021 % Rank Cat Total Return Trailing Returns Performance 12-31-2022 -23.77 1st Otr 12.21 -5.90 -5.90 -5.90 -3.64 1229 8.66 1.63 2nd Otr 14.30 -0.63 1.08 1155 -9.91 5.63 7.03 7.03 3 Υ 51 3rd Qtr 1099 -1.89 -4.58 7.53 7.53 0.65 5.93 0.86 7.53 5 Yr 42 13.58 12.57 4th Otr 11.18 11.18 -1.38 11.18 8.57 0.89 10 Y 819 21 Total % 25.42 8.44 8.44 Incept -5.90 3.91

	2023	1. Contractual waiver; Expires 12-31-2023
1.71	1.72 1	30-day SEC Yield 12-31-22
I		7-day Yield
Unsubsidized	Subsidized	

Performance Disclosure The Overall Morningstar Rating is based on risk-adjusted returns,

(if applicable) Morningstar metrics.
The performance data quoted represents past performance and derived from a weighted average of the three-, five-, and 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

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

nup://www.mis.com.	
Fees and Expenses	
Sales Charges	
Front-End Load %	N
Deferred Load %	N N
Fund Expenses	

Fund Expenses			
Management Fees %			0.43
12b1 Expense %			NA
Net Expense Ratio %			0.55
Gross Expense Ratio %			0.56
Risk and Return Profile			
	3 Yr	5Yr	10 Yr
	1,155 funds 1,099 funds	1,099 funds	819 funds
Morningstar Rating™	3★	3★	4★
Morningstar Risk	-Avg	-Avg	-Avg
Morningstar Return	Avg	Avg	+Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	20.07	17.91	14.44
Mean	7.03	7.53	11.18
Charma Datio	0 40	2	0 75

	1,155 tunds 1,099 tunds	9 tunds	819 tunds	
Morningstar Rating™	3 ⊁	3 ⊁	4★	Credit Quality Brea
Morningstar Risk	-Avg	-Avg	-Avg	AAA
Morningstar Return	Avg	Avg	+Avg	° AA
	3 Yr	5Yr	10 Yr	A
Standard Deviation	20.07	17.91	14.44	BBB
Mean	7.03	7.53	11.18	P &
Sharpe Ratio	0.40	0.42	0.75	Below B
MPT Statistics	Standard Index	Be Morning:	Best Fit Index Morningstar US LM	NR
		Brd \	Brd Val TR USD	Regional Exposure
Alpha	0.07		-0.15	Americas
Beta	0.90		0.95	Greater Europe
R-Squared	90.67		98.47	Greater Asia
12-Month Yield			1.86%	
Potential Cap Gains Exp			45.93%	
Operations				
	1			,

Stocks %

92.9 7.1 0.0

Credit Quality Breakdown

ЧбіН baM

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

 \bigcirc \bigcirc \bigcirc \bigcirc

36 mil 11 mil 12 mil 2 mil

ConocoPhillips Comcast Corp Class A

2.21 2.16 2.14

2.06 1.97

Duke Energy Corp

Thermo Fisher Scientific Inc

1258	41	-0.34	-2.06	0.05	22.38	2011		2	99
1208	29	-1.09	0.41	16.42	25.35	2012		}	98
1213	3	3.28	3.42	35.81	33.20	2013		\	99
1290	51	-2.89	-3.12	10.57	34.94	2014			99
1378	12	3.29	-1.92	-0.54	32.79	2015)	99
1268	52	-3.20	2.18	14.14	36.05	2016		1	99
1260	30	4.08	-4.09	17.74	40.56	2017			99
1244	83	-1.60	-5.49	-9.87	35.30	2018		S	99
1209	9	3.54	-1.40	30.08	44.42	2019			99
1200	39	=======================================	-14.49	3.91	44.83	2020		₩.	99
1207	58	0.26	-3.29	25.42	54.34	2021)	99
1229	52	1.63	12.21	-5.90	47.47	12-22		-100k -60k -20k	99
No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	Performance Quartile (within category)	Growth of \$10,000 MFS Value R4 33,610 Category Average 29,099 Standard Index 38,680	Investment Style Equity Stocks %

Portfolio Analysis 12-31-2022 Asset Allocation % Cash US Stocks Non-US Stocks Bonds Other/Not Clsfd	is 12-31-2022 Net % 0.97 91.41 7.62 0.00 0.00	Long % 0.97 91.41 7.62 0.00 0.00	Short % 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Share Chg since 11-2022	Share Amount 17 mil 10 mil 5 mil	Holdings: 72 Total Stocks , 0 Total Fixed-Income, 72% Turnover Ratio JPMorgan Chase & Co Johnson & Johnson Cigna Corp	Net Assets % 3.80 3.10 3.03
Non-US Stocks	7.62	7.62	0.00	1		JPMorgan Chase & Co	3.80
Bonds	0.00	0.00	0.00	1	10 mil	Johnson & Johnson	3.10
Other/Not Clsfd	0.00	0.00	0.00	1		Cigna Corp	3.03
Total	100.00	100.00	0.00	D O	3 mil 29 mil	3 mil Northrop Grumman Corp 29 mil Pfizer Inc	2.65 2.58
Equity Style	Portfolio Statistics		Rel Cat	D (7 mil	Honeywell International Inc	2 48
Value Blend Growth	P/E Ratio TTM			① (I	5 mil	5 mil Aon PLC Class A	2.38
96	P/C Ratio TTM			1	8 mil	Texas Instruments Inc	2.35
ÞiM		3.1 U.8b	0 - 30	1	10 mil	Progressive Corp	2.32
llsm2	\$mil	0.0		①	8 mil	8 mil Marsh & McLennan Companies Inc	2.30
				1	6 mil	6 mil Chubb Ltd	2.21
Fixed-Income Style	Ava Eff Maturity			1	36 mil	36 mil Comcast Corp Class A	2.16

		6.46 C	ţ	Bel Std Index	 - -	 -		w s	E	 48. =:	 	β. B. B.	ے	Sector
Utilities	Healthcare	Consumer Defensive	Defensive	Technology	Industrials	Energy	Communication Services	Sensitive	Real Estate	Financial Services	Consumer Cyclical	Basic Materials	Cyclical	Sector Weightings
6.8	19.3	6.9	33.0	7.1	18.0	4.7	3.2	33.0	1.3	25.4	3.0	4.3	34.0	Stocks %
2.14	1.21	0.91	1.24	0.31	1.98	0.91	0.43	0.74	0.45	1.83	0.31	1.76	1.18	Rel Std Index

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Objective: Manager: Family:

Minimum Initial Purchase:

\$0 MEIJX USD

US55273H6356

Incept:

04-01-2005

Purchase Constraints:

Type:

Total Assets:

\$59,252.73 mil

ISIN: Ticker: Base Currency:

Tenure:

Multiple 16.7 Years Growth

MFS

30	Qu.	70	шω	120
2020	Quarterly Returns	Performance 12-31-2022	Sterling Capital Total Return Morningstar Quantitative Rating TM Neutral Quantitative Neutra	ne lease date 1.2-31-2022 Note: Follois of the allalysis are based on pre-line profile turns. Flease feat discussife for information in the lease feat discussife for information in the lease feat discussife for information in the lease feat discussification in the lease feat discussifier for the lease feat discussion in the lease
070	1st Otr	-31-2022	n) 9 e) (a	N 7707-1
10	1st Qtr 2nd Qtr 3rd Qtr 4th Qtr Total %		pita SD)	טופ. דטו נו
000	3rd Otr		T	טווא טו נו
1 07	4th Otr		otal	le dildiy
2	Total %		Ret	SIS die Da
:	94		iurn	seu un pre-
	97		Morningst Rating ^{rm} Neutral a 12-31-2022	Iliceptio
	96		ngstar O M O22	Heruns
	97		luantita	s. Fledse
	97 97		tive	iedu disi
	95 97 98		Overall Morningstar Rating™ Standard Index Cat ★★★★ Bloomberg US Blo 405 US Fund Intermediate Agg Bond TR USD Bord Core Bond Bord Bord	Jusure
	97		Morning -und Inte	I Hole III
	98		Istar Rat ermediat	IOIIIduo
	96		ting™ (Ι.
	96		Standard Bloomber Agg Bond	
	97		Standard Index Bloomberg US Agg Bond TR USD	
	98		Categ Bloom Bond	
	Bond %	Investment Styl	ory Index berg US Agg TR USD	
	COIII	ant Style	ng M Standard Index Category Index Morningstar Cat Bloomberg US Bloomberg US Agg US Fund Intermediate Agg Bond TR USD Bond TR USD Core Bond	

## Or Total % 94 97 96 97 97 95 97 98 96 96 97 98 1.67 9.35 -0.26 -1.12 1.57 -13.15 10 Yr Incept -0.71 -0.71 1.58 0.71 1.58 0.71 2.53 - 2.75 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 12:22	Total % 94 97 96 97 97 95 97 98 96 97 97 98 96 97 97 98 96 97 97 98 96 97 97 98 96 97 97 98 96 97 97 98 96 97 97 98 96 97 97 98 96 97 97 98 96 97 97 98 96 97 97 98 96 97 97 98 96 97 97 98 98 96 97 97 97 97 98 96 97 97 97 98 96 97 97 98 96 97 97 97 98 96 97 97 98 96 97 97 97 97 97 97 97 97 97 97 97 97 97	4th Otr Total % 94 97 96 97 97 95 97 98 96 97 107 108 7 98 96 97 98 96 97 107 108 7 98 96 97 97 98 96 97 97 98 96 97 109 109 109 109 109 109 109 109 109 109
Total % 94 97 96 97 97 95 97 98 96 96 96 9.35 -1.12 -13.15 -1.	4th Otr Total % 94 97 96 97 97 95 97 98 96 96 96 1.67 9.35 -0.26 -1.12 1.57 -13.15 1.57 -13.15 1.58 0.71 1.58 0.71 1.58 0.71 1.58 0.71 1.59 0.53 -0.2	3rd Our 4th Our Total % 94 97 96 97 97 95 97 98 96 96 1.59 1.67 9.35 0.04 -0.26 -1.12 -4.42 1.57 -13.15 5 Yr 10 Yr Incept
Total % 94 97 96 97 97 95 97 98 96 9.35 -1.12 -13.15 Incept 0.71 0.71 0.71 0.71 0.71 0.71 2011 2012 2013 2014 2015 2016 2017 2018 2019	4th Otr Total % 94 97 96 97 97 95 97 98 96 1.67 9.35 -0.26 -1.12 1.57 -13.15 1.57 -13.15 1.58 0.71 1.58 0.71 1.58 0.71 1.59 0.75 1.59 0.	3rd Our 4th Our Total % 94 97 96 97 97 95 97 98 96 1.59 1.67 9.35 94 97 96 97 97 95 97 98 96 96 1.59 1.59 1.57 -13.15 9.442 1.57 -13.15 9.71 9.81 96 97 97 97 98 96 97 97 97 98 96 97 97 98 96 97 97 97 98 96 97 97 97 97 97 97 97 97 97 97 97 97 97
Total % 94 97 96 97 97 95 97 98 9 1.1.12	4th Otr Total % 94 97 96 97 97 95 97 98 1.67 9.35 -0.26 -1.12 1.57 -13.15 10 Yr Incept	3rd Our 4th Our Total % 94 97 96 97 97 95 97 98 1.59 1.67 9.35 0.04 -0.26 -1.12 -4.42 1.57 -13.15 5 7r 10 Yr Incept
Total % 94 97 96 97 97 95 97 9	4th Our Total % 94 97 96 97 97 95 97 1.67 9.35 -0.26 -1.12 1.57 -13.15 10 Yr Incept	3rd Our 4th Our Total % 94 97 96 97 97 95 97 1.59 1.67 9.35 0.04 -0.26 -1.12 -4.42 1.57 -13.15 5 Yr 10 Yr Incept
Total % 94 97 96 97 97 95 9.35 -1.1.2 -13.15 Incept 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71	4th Our Total % 94 97 96 97 97 95 1.67 9.35 -0.26 -1.12 1.57 -13.15 10 Yr Incept	3rd Otr 4th Otr Total % 94 97 96 97 97 95 1.59 1.67 9.35 0.04 -0.26 -1.12 -4.42 1.57 -13.15 5 Yr 10 Yr Incept - 0.71 - 0.71 - 0.71 0.46 0.53 - 0.46 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54
Total % 94 97 96 97 97 97 97 97 9.35 -1.1.2 -13.15 -1.2.15 -1.	4th Otr Total % 94 97 96 97 97 1.67 9.35 -0.26 -1.12 1.57 -13.15 10 Yr Incept	3rd Otr 4th Otr Total % 94 97 96 97 97 1.59 1.67 9.35 0.04 -0.26 -1.12 -4.42 1.57 -13.15 5 Yr 10 Yr Incept - 0.71 - 0.71 - 0.71 0.46 0.53 - 0.46 0.54 0.54 0.54 0.54 0.54
Total % 94 97 96 97 9.35 -1.12 -13.15 -1.3.15	4th Our Total % 94 97 96 97 1.67 9.35 -0.26 -1.12 1.57 -13.15 10 Yr Incept -0.71 -0.71 -0.71 1.58 0.71 2.53 -0.53 -0.53 5 9 97 2011 2012 2013 2014	3rd Otr 4th Otr Total % 94 97 96 97 1.59 1.67 9.35 0.04 -0.26 -1.12 -4.42 1.57 -13.15 5 Yr 10 Yr Incept - 0.71 - 0.71 - 0.71 - 0.71 0.46 0.53 - 0.46 0.50 - 0.46 0.50 - 0.46 0.50 - 0.46 0.50 - 0.46 0.50 - 0.46 0.50 - 0.46 0.50 - 0.46 0.50 - 0.46 0.50 - 0
Total % 94 97 96 9.35 -1.12 -13.15 Incept 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71	4th Otr Total % 94 97 96 1.67 9.35 -0.26 -1.12 1.57 -13.15 10 Yr Incept -0.71 -0.71 -0.71 1.58 0.71 1.58 0.71 2.53 -0.53 2.715 2011 2012 2013	3rd Orr 4th Orr Total % 94 97 96 1.59 1.67 9.35 0.04 -0.26 -1.12 -4.42 1.57 -13.15 5 Yr 10 Yr Incept - 0.71 - 0.71 - 0.71 0.48 1.58 0.71 0.46 0.53 - 0.46 0.50 - 0.46 0.50 - 0.46 0.50 - 0.46 0.50 - 0.46 0.50 - 0.46 0.50 - 0
Total % 94 97 9.35 -1.12 -13.15 Incept 0.71 0.71 0.71	4th Otr Total % 94 97 1.67 9.35 -0.26 -1.12 1.57 -13.15 10 Yr Incept	3rd Our 4th Our Total % 94 97 1.59 1.67 9.35 0.04 -0.26 -1.12 -4.42 1.57 -13.15 5 Yr 10 Yr Incept - 0.71 - 0.71 0.48 1.58 0.71 0.46 0.53 - 0.46 0.50 - 0.46 0.50 - 0.46 0.50 - 0.4
Total % 94 9.35 -1.12 -13.15 Incept 0.71 0.71 0.71 2011	4th Our Total % 94 1.67 9.35 -0.26 -1.12 1.57 -13.15 10 Yr Incept -0.71 -0.71 1.58 0.71 2.653 -0.53 -0.55 2011	3rd Our 4th Our Total % 94 1.59 1.67 9.35 0.04 -0.26 -1.12 -4.42 1.57 -13.15 5 Yr 10 Yr Incept - 0.71 - 0.71 0.48 1.58 0.71 0.46 0.53 - 0.46 0.53 - 0.46 0.53 - 10 5 10 5 2011
Total % 9.351.1213.1510.71	4th Our Total % 1.67 9.35 -0.26 -1.12 1.57 -13.15 10 Yr Incept -0.71 -0.71 -0.71 1.58 0.71 1.58 0.71 2.53 -0.53 -0.53 -0.53 -0.55 -0.55	3rd Otr 4th Otr Total % 1.59 1.67 9.35 0.04 -0.26 -1.12 -4.42 1.57 -13.15 5 Yr 10 Yr Incept - 0.71 - 0.71 0.48 1.58 0.71 0.46 0.53 - 0.47 0.55 - 0.48 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54
	4th Otr 1.67 -0.26 1.57 10 Yr - - - 1.58 0.53 0.53 5	3rd Orr 4th Orr 1.59 1.67 0.04 -0.26 -4.42 1.57 5 Yr 10 Yr
	4th Otr 1.67 -0.26 1.57 10 Yr - - - 1.58 0.53 0.53 5	3rd Orr 4th Orr 1.59 1.67 0.04 -0.26 -4.42 1.57 5 Yr 10 Yr
	3rd Ottr 1.59 0.04 -4.42 5 Yr -0.48 0.48 0.46 0.46 110	

Growth of \$10,000

Sterling Capital Bond R6 13,253

Total Return

Category Average 12,374Standard Index 12,484

Load-adj Mthly

Trailing Returns

2022 2021 2020 Quarterly Returns

osidized — 3.78	Unsubsidized	Subsidized 3.10 ¹ 3.81 ¹ 23	-31-202]-23 12-31-22 Expires 01	Si 7-day Yield 01-30-23 30-day SEC Yield 12-31-22 1. Contractual waiver: Expires 01-31-2023
	275	372	405	453	No. in Cat
	5	10	15	40	% Rank Cat
	0.53	0.46	0.64	-0.14	+/- Cat Index
	0.53	0.46	0.64	-0.14	+/- Std Index
0.71	1.58	0.48	-2.08	-13.15	Total Return
0.71				-13.15	Std 12-31-2022

6.73 -1.11 -1.11

-0.97 1.05 1.05

5.99 0.03 0.03

0.54 -0.01 -0.01

3.75 1.10 1.10

4.33 0.79 0.79

10.82 9.37 0.65 0.65 17

11.35 9.35 1.84 1.84

9.18 -13.15 -0.14 -0.14 40

NAV/Price

Performance Quartile (within category)

10.87 -1.12 0.42 0.42 23 423

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

-0.28 -0.28

10.22 -0.27

6.14 1.93 1.93

Portfolio Analysis 12-31-2022

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. does not guarantee future results. The investment return and

www.sterlingcapitalfunds.com.	month-end, please call 800-228-1872 or visit	quoted herein. For performance data current to the most recer	Current performance may be lower or higher than return data
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Fund Expenses	Sales Charges Front-End Load % Deferred Load % NA	Fees and Expenses
---------------	---	-------------------

000000000000000000000000000000000000000			5
Fund Expenses			
Management Fees %			0.25
12b1 Expense %			0.00
Net Expense Ratio %			0.35
Gross Expense Ratio %			0.46
Risk and Return Profile			
	3 Yr 405 funds	5 Yr 372 funds	10 Yr 275 funds
Morningstar Rating™	4★	4☆	5 ☆
Morningstar Risk	Avg	Avg	Avg
Morningstar Return	+Avg	High	High
	3 Yr	5Yr	10 Yr
Standard Deviation	6.00	5.13	4.11
Mean	-2.08	0.48	1.58
Sharpe Ratio	-0.46	-0.14	0.21
MPT Statistics	Standard Index		Best Fit Index Bloomberg US
	,		Universal IH USD
Alpha	0.57	57	0.42
Beta	0.97	97	0.98
R-Squared	90.07	07	95.84
12-Month Yield			2.93%
Potential Cap Gains Exp			-19.17%

llsm2	biM	eße	200	Equity Style	Total	Other/Not Clsfd	Bonds	Non-US Stocks	US Stocks	Cash	Asset Allocation %
Geo Avg Mkt Cap \$mil	P/B Ratio TTM	P/C Ratio TTM	P/E Ratio TTM	Portfolio Statistics	100.00	0.27	98.13	0.00	0.00	1.60	Net %
				Port Rel Avg Index	100.00	0.27	98.13	0.00	0.00	1.60	Long %
		1	1	el Rel ex Cat	0.00	0.00	0.00	0.00	0.00	0.00	Short %

Bond % 66.46	Credit Quality Breakdown 12-31-2022	edit Quality B ∖A	Credi
Sector	мор		
	Avg Wtd Price		
3.17 ① ①	Avg Eff Duration Avg Wtd Coupon		
		d Mod Ext	Еtd
D (yle	Fixed-Income Style	Ξï

M			Sector Weightings
Credit Quality Breakdown 12-31-2022	1-2022	Bond %	-
AAA		66.46	Basic Materia
AA		8.48	Consumer Cy
A		12.58	Financial Ser
BBB		12.40	Real Estate
BB		0.06	₩ Sensitive
В		0.00	Communicati
Below B		0.02	Energy
NR		0.00	
Regional Exposure	Stocks %	Rel Std Index	- lechnology
Americas			→ Defensive
Greater Europe		1	Consumer De
Greater Asia			Healthcare
			I I tilities

	ndex	3 % S
8.75 6.05 3.17 88.41	Cat	Short % 0.00 0.00 0.00 0.00 0.00 0.00 0.00
	0000	Share Chg since 11-2022 ⊕
13 mil 12 mil 12 mil 10 mil 11 mil	16 mil 16 mil 15 mil 14 mil 11 mil	Share Amount 106 mil 51 mil 35 mil 21 mil 21 mil
Federal National Mortgage Associat Fnma Pass-Thru I 3% Federal Home Loan Mortgage Corpora Federal Home Loan Mortgage Corpora Federal Home Loan Mortgage Corpora	Fnma Pass-Thru I HERTZ VEHICLE FINANCING III LLC 1. ONEMAIN DIRECT AUTO RECEIVABLES TR Fnma Pass-Thru I 3.5% Federal Home Loan Mortgage Corpora	Holdings: 0 Total Stocks. 278 Total Fixed-Income, 48% Turnover Ratio United States Treasury Bonds 1.375% United States Treasury Bonds 2.5% United States Treasury Notes 2.625% United States Treasury Notes 1.5% ONEMAIN FINANCIAL ISSUANCE TRUST 1
1.01 1.00 0.98 0.98 0.97	1.44 1.33 1.30 1.21 1.03	Net Assets % 5.78 3.78 3.14 1.80 1.72

			ldex		.0 6	8 4	.46	<u>-</u>
Incept: Type: Total Assets:	Utilities	→ Defensive ☐ Consumer Defensive	Technology	Energy Industrials	Sensitive Communication Services	Real Estate	Basic MaterialsConsumer Cyclical	Sector Weightings Ob Cyclical
02-01-2018 MF \$1,054.33 mil		1 1		1 1	1 1	1 1	1 1	Stocks %
		1 1			1 1	1 1		Rel Std Index

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Objective: Manager: Family:

Base Currency:

Growth and Income USD

Min Auto Investment Plan: Purchase Constraints: Minimum Initial Purchase:

US85918D6242 \$10 mil \$10 mil A

Tenure:

Multiple 15.0 Years

ISIN:

Ticker:

STRDX

Sterling Capital Funds

Operations



(USD) T. Rowe Price Growth Stock Morningstar Analyst Rating™ Overall Morningstar Rating™ Standard Index S&P 500 TR USE (USD) ** (USD) 1,131 US Fund Large Growth

S&P 500 TR USD

Category Index Russell 1000 Growth TR USD

US Fund Large Growth Morningstar Cat

2011		804	1054	1131	1235	No. in Cat
		63	90	90	92	% Rank Cat
	1	-2.75	-5.86	-8.20	-10.91	+/- Cat Index
		-1.21	-4.33	-8.07	-21.94	+/- Std Index
2	8.34	11.35	5.10	-0.41	-40.05	Total Return
	8.34		5.10		-40.05	Std 12-31-2022
	8.34		5.10	-0.41	-40.05	Load-adj Mthly
	Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
	-40.05	-2.23	-3.29	-25.40	-15.01	2022
	20.18	4.77	-0.80	12.73	2.58	2021
	37.09	12.03	12.19	27.75	-14.62	2020
98	Total %	4th Otr	3rd Otr	2nd Otr	1st Otr	Quarterly Returns
					?-31-2022	Performance 12-31-2022

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

7-day Yield 01-30-23

Subsidized

Unsubsidized

0.00

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 800-638-5660 or visit

0.50 NA 0.51	Fund Expenses Management Fees % 12b1 Expense % Net Expense Ratio % Gross Expense Ratio %
N N	Sales Charges Front-End Load % Deferred Load %
	www.troweprice.com. Fees and Expenses
	month-end, please call 600-636-3660 of visit

Risk and Return Profile

61 339/			Patantial Can Caina Exp
			12 Month Viold
97.56		85.61	R-Squared
1.01		1.08	Beta
-5.98		-7.72	Alpha
Brd Growth TR USD	Brd Grov		
Best Fit Index	Morning Be	Standard Index	MPT Statistics
0.66	0.28	0.07	Sharpe Ratio
11.35	5.10	-0.41	Mean
17.35	21.72	24.79	Standard Deviation
10 Yr	5Yr	3 Yr	
Avg	-Avg	-Avg	Morningstar Return
+Avg	+Avg	+Avg	Morningstar Risk
2☆	2★	2★	Morningstar Rating™
804 funds	4 funds	1,131 funds 1,054 funds	
10 Yr	5Yr	3 Yr	

Below B

88 88

₽₿

Credit Quality Breakdown

-3.61 	-0.97 -3.08	2011	8 🗔
3.66	 18.92 2.91	2012	88 🗔
5.72 —	39.20 6.81	2013	88 🖽
-4.22 	8.83 -4.86	2014	97
5.27		2015	96
-5.50 63 1463	53.28 1.58 -10.38	2016	88 🗔
3.63 15 1363	62.70 33.84 12.01	2017	99 🗔
0.62 37 1405	57.15 -0.89 3.49	2018	8 🛄
-5.41 61 1360	73.39 30.98 -0.51	2019	100
-1.40 38 1289		2020	100
-7.42 62 1237		2021	9 📗
-10.91 92 1235	61.72 -40.05 -21.94	12-22	92 92 100k 80k 60k 20k
+/- Category Index % Rank Cat No. of Funds in Cat	NAV/Price Total Return % +/- Standard Index	Performance Quartile (within category) History	Investment Style Equity Stocks % Growth of \$10,000 I. Rowe Price Growth Stock I 34,497 Category Average 33,023 Standard Index 38,680

Portfolio Analysis 12-31-2022	is 12-31-2022				
Asset Allocation %	Net %	Long % Short %	Share Chg Share		Net Assets
Cash	8.32	8.32 0.00	since Amount		%
US Stocks	84.25		U9-2U22	23% lumover Kauo	
Non-US Stocks	7.43		① 22 mi	22 mil Microsoft Corp	12.64
Bonds	0.00		① 29 mil	l Apple Inc	9.10
Other/Not Clsfd	0.00	0.00 0.00	28 mil	Amazon.com Inc	5.60
Total	100 00	100 00 0 00	⊕ 1,839 mil	T. Rowe Price Gov. Reserve	4.38
				20 mil Alphabet Inc Class A	4.10
Equity Style	Portfolio Statistics	- Rel		I Ibitodipolth Orong Ipo	S 000
Value Blend Growth	D/E Datio TTM	20 C 1 EO 1 20 C			0 0
Блед	D/C D-1:- TTM	2 .	(VISA IIIC CIASS A	3.12
1 8	P/C nauo I IVI	14	⊕ 3 mil	Mastercard Inc Class A	2.89
biM	F/B Hatio I IIVI	1.72	⊕ 2 mil	I ASML Holding NV ADR	2.58
llsm2	\$mil	130 1.32 0.33	⊕ 7 mil	I NVIDIA Corp	2.47
			① 3 mi	3 mil Intuit Inc	2.46
Fixed-Income Style	A		① 8 mi	I Ross Stores Inc	2.31
Ltd Mod Ext	Avg Eff Duration		① 11 m.i	1 mil Alphabet Inc Class C	2.25
dgil-	Avg Wtd Colinon	1	① 2 mil	l Eli Lilly and Co	2.07
baM	Avg Wtd Price		⊕ 2 mi	2 mil ServiceNow Inc	1.77
мол			Sector Weightings	Stocks %	Rel Std Index

0.00	0.0	Utilities	
0.92	14.6	Healthcare	30.42
0.09	0.7	Consumer Defensive	6.54
0.5:	15.3	n → Defensive	0.93
1.91	43.9	- ■ Technology	Rel Std Index
0.59	5.3	- industrials	ı
0.00	0.0	_	ı
1.41	10.3	Communication Services	
1.3;	59.5	- vv Sensitive	1
0.00	0.0	Real Estate	ı
0.48	6.6	_ Financial Services	I
1.90	18.2	Consumer Cyclical	l
0.19	0.5	Basic Materials	N
0.88	25.3	ຼົ ∿ Cyclical	Bond %
Rel Std Index	Stocks %	Sector Weightings	

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Objective:

Growth 9.0 Years Joseph Fath T. Rowe Price

Tenure:

Manager:

Ticker:

PRUFX US7414794062

Incept:

08-28-2015

Purchase Constraints:

Base Currency:

ISIN:

Minimum Initial Purchase:

\$500,000

Total Assets:

\$44,698.29 mil

Family:

Operations

Greater Europe Greater Asia

91.9 7.2 0.9

Americas

Regional Exposure

Stocks %

Index InstIPlus (USD) Vanguard Extended Market

₩ Gold 08-10-2022

Morningstar Analyst Rating™ Overall Morningstar Rating™ 534 US Fund Mid-Cap Growth

Standard Index

S&P 500 TR USD

Category Index
Russell Mid Cap
Growth TR USD

Morningstar Cat
US Fund Mid-Cap
Growth

97.10	Unsubsidized	Unsı	Subsidized	SL		7 J V I.J
		ú	400	<u>ر</u> +	٥	NO. III Cat
		280	/00	л	л	No in Cat
		72	81	69	44	% Rank Cat
:		-1.76	-2.75	-0.81	0.27	+/- Cat Index
	I	-2.91	-4.53	-4.62	-8.34	+/- Std Index
	8.93	9.65	4.90	3.04	-26.45	Total Return
	8.93	9.65	4.90		-26.45	Std 12-31-2022
;	8.93	9.65	4.90	3.04	-26.45	Load-adj Mthly
	Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
;	-26.45	5.11	-2.73	-20.67	-9.33	2022
	12.48	0.70	-3.27	7.12	7.79	2021
	32.24	27.44	9.87	31.16	-27.99	2020
	Total %	4th Otr	3rd Otr	2nd Otr	1st Otr	Quarterly Returns
					:-31-2022	Performance 12-31-2022

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 01-30-23 (if applicable) Morningstar metrics. Performance Disclosure 1.35 1.35

-1.92

-5.68 -3.57

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

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

,	တ	_	m
	Sales Charges	Fees and Expenses	month-end, please call 888-809-8102 or visit www.vanguard.com

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

Risk and Return Profile	Gross Expense Ratio %	Net Expense Ratio %	12b1 Expense %	Management Fees %	Fund Expenses
	_	_		0	

9 65	4 90	3 04	Mean
18.66	23.51	26.94	Standard Deviation
10 Yr	5 Yr	3 Yr	
-Avg	-Avg	-Avg	Morningstar Return
+Avg	+Avg	+Avg	Morningstar Risk
2★	2★	2★	Morningstar Rating™
389 funds	499 funds	534 funds	
10 Yr	5Yr	3 Yr	
			Risk and Return Profile
0.04			Gross Expense Ratio %
0.04			Net Expense Ratio %
NA			12b1 Expense %
0.04			Management Fees %

28.24%			Potential Cap Gains Exp
1.17%			12-Month Yield
97.45		85.71	R-Squared
1.04		1.18	Beta
2.77		-4.56	Alpha
t TR USD	Brd Grt Ext TR USD		
ar US Sml	Morningstar US Sml		
Best Fit Index	Best	Standard Index	MPT Statistics
0.55	0.26	0.21	Sharpe Ratio
9.65	4.90	3.04	Mean
			9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

Below B

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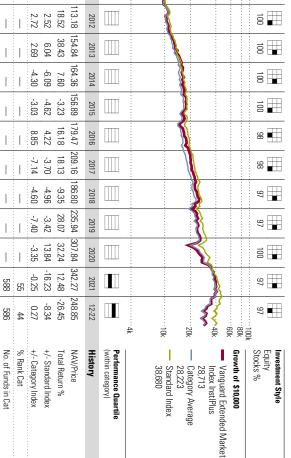
88 88

Greater Europe Greater Asia

99.1 0.6 0.3

Americas Regional Exposure

Stocks %



Portfolio Analysis 12-31-2022	is 12-31-2022						
Asset Allocation %	Net %	Long %	Short %	Share Chg	Share	Holdings:	Net Assets
Cash	2.57	2.57	0.00	since	Amount	3,624 Total Stocks , 0 Total Fixed-Income ,	%
US Stocks	96.30	96.30	0.00	7707-11		19% Turriover nauc)
Non-US Stocks	1.13	1.13	0.00	1		Blackstone Inc	0.88
Bonds	0.00	0.00	0.00	1	27 mil	Uber Technologies Inc	0.84
Other/Not Clsfd	0.00	0.00	0.00	1	4 mil	Palo Alto Networks Inc	0.71
Total	100.00	100.00	0.00	①	4 mil	Snowflake Inc Ordinary Shares - Cl	0.67
2	2			①	2 mil	2 mil Lululemon Athletica Inc	0.63
Equity Style	Portiolio Statistics	Avg Index	Cat	①	3 m.i	Cheniere Energy Inc	0.63
Sales ones	P/E Ratio TTM	12.3 0.65	0.48	①	7 mil	Block Inc Class A	0.57
әб.	P/C Ratio TTM			1	3 mil	Workday Inc Class A	0.57
biM	P/B Ratio I IM			①	5 mil	Airbnb Inc Ordinary Shares - Class	0.55
llsm2	\$mil	0.00	٠.04	1	12 mil	Marvell Technology Inc	0.53
				•	2 mil	Alnylam Pharmaceuticals Inc	0.50
Fixed-Income Style	A TEE Maturity			①	6 mil	Apollo Global Management Inc Class	0.47

Sensitive	I	B
Real Estate	1	RRR
Financial Serv	1	A
	1	AA
	1	AAA
_	down — Bond %	Credit Quality Breakdown —
n Chalian		
Sector Weightings		мот
① 3 mil	I	beM
数 3 mil		ų£
① :	Avg Eff Duration —	iн
		Ltd Mod Ext
① 6 mil		Fixed-Income Style
⊕ 2 mil		

KKR & Co Inc Ordinary Shares

Horizon Therapeutics PLC Ferguson PLC

0.45 0.44

0.50 0.47 0.45

7.3 43.2 3.7 5.0 14.2 20.3 19.1 3.2 13.7
3 2.61 2. 0.97 7 0.51 7 0.96 0.0 0.96 2 1.57

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only in the country in which its orig at derived from, account information are provided solely for information and the responsible for any trading de- angle without notice. Investment ru ful Exhange Commission. This report of this report.	\$100 mil	US9229083715	VEMPX	USD
inal distributor is based. The information, data, analy provided by your financial professional which canno purposes and therefore are not an offer to buy or s existions, damages or other losses resulting from or essentin is produced and issued by subsidiaries of M essenth is produced and issued by subsidiaries of M essenth is produced and issued by subsidiaries.	Total Assets:	Туре:	Incept:	Purchase Constraints:
yses and t be verified by ell a security, related to, this orningstar, Inc. ust be preceded	\$14,1	Ş	01-14	

01-14-2011

\$14,174.79 mil

Vanguard Institutional Index ក្នុង Morningstar Analyst Rating™ Overall Morningstar Rating™ InstI PI (USD) Oz. 222-2022 1,223 US Fund Large Blend Insti PI (USD)

Standard Index

S&P 500 TR USD

USD Russell 1000 TR Category Index

US Fund Large Blend **Morningstar Cat**

	30-day SEC Yield 01-30-23	7-day Viold	000	No in Cat	% Rank Cat	+/- Cat Index	+/- Std Index	Total Return	Std 12-31-2022	Load-adj Mthly	Trailing Returns	2022	2021	2020	Quarterly Returns	Performance 12-31-2022
	01-30-23		000	1358	51	1.00	-0.02	-18.13	-18.13	-18.13	1 Yr	-4.61	6.18	-19.59	1st Otr	-31-2022
		Sr	27	1223	32	0.30	-0.01	7.65	I	7.65	3 Yr	-16.11	8.54	20.55	2nd Otr	
	1.72	Subsidized	-	1116	23	0.28	-0.01	9.41	9.41	9.41	5 Yr	-4.89	0.57	8.93	3rd Otr	
		Unsi	2	818	12	0.18	-0.01	12.55	12.55	12.55	10 Yr	7.55	11.02	12.15	4th Otr	
	1.72	Unsubsidized				1		7.82	7.82	7.82	Incept	-18.13	28.69	18.41	Total %	
	2.12 0.01		2011					2							100	
;	0.00		2012					1)						100	
1	32.37 -0.02		2013						1						10	
	13.68 -0.01	188.68	2014							\					100	
;	0.01	186.63	2015						4						100	
,	11.95 21.82 -0.01 -0.02	203.84	2016						{						100	
,	-0.01 -0.02	243.48	2017								١				100	
)	-4.41 -0.02	227.57	2018							}					100	
)	31.48 0.00	290.25	2019							}	1				100	
)	0.01		2020							<	X				100	
)	28.69 -0.02		2021								}				100	
_		w				-		-:-		-	\rightarrow		:			

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

Asset Allocation % Portfolio Analysis 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.

0.62

-0.42 0.00

-0.75 -0.02 4

0.44

32

1686

1559

1568

their original cost.

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 888-809-8102 or visit www.vanguard.com

Sales Charges Front-End Load % Deferred Load %	N N
Fund Expenses	
Management Fees %	0.02
12b1 Expense %	NA
Net Expense Ratio % Gross Expense Ratio %	0.0 82 82

100.00	5	100.00	R-Squared
1.00	0	1.00	Beta
-0.01	=	-0.01	Alpha
S&P 500 TR USD	S&	ordinal n illusi	METSIGNSHICS
n indov		O+andard Indi	ADT Ctatistics
0.82	0.50	0.41	Sharpe Ratio
12.55	9.41	7.65	Mean
14.77	18.69	21.17	Standard Deviation
10 Yr	5 Yr	3 Yr	
+Avg	+Avg	+Avg	Morningstar Return
Avg	Avg	Avg	Morningstar Risk
5 ⊁	4★	4 *	Morningstar Rating™
818 funds	116 funds	1,223 funds 1,116 funds	
10 Yr	5Yr	3 Yr	
			Risk and Return Profile
0.02			Gross Expense Ratio %
0.02			Net Expense Ratio %
NA			12b1 Expense %
0.02			Management Fees %
			Fund Expenses

Value Blend Growth Value Blend Growth	Cash US Stocks Non-US Stocks Bonds Other/Not Clsfd Total
Portfolio Statistics Port Avg P/E Ratio TTM 19.0 P/C Ratio TTM 14.2 P/B Ratio TTM 3.6 Geo Avg Mkt Cap 161357 \$mil	0.44 98.44 1.12 0.00 0.00
Rel Index 1.00 1.00 1.00 1.00	0.44 98.44 1.12 0.00 0.00 100.00
Rel Cat 1.04 0.95 0.87 0.76	0.00
$0 \ 0 \ 0 \ 0 \ 0$	① ① ① ① ① 11-2022
7 mil 37 mil 18 mil 29 mil 20 mil	104 mil 52 mil 62 mil 13 mil 42 mil

Fixed-Income Style		
Ltd Mod Ext	Avg Eff Maturity	
ЧбіН	Avg Eff Duration	
	Avg Wtd Coupon	1
beM	Avg Wtd Price	1
топ		
Credit Quality Breakdown	OWN —	Bond %
AAA		
AA		
A		1
BBB		
BB		
В		1
Below B		
NR		I
Regional Exposure	Stocks %	Rel Std Index
Americas	98.9	1.00
Greater Europe	1.1	1.00
Greater Asia	0.0	1.00

_	1	Investment Style
	B	Fauity
	100	Edair
	100	Stocks %
- 1	100k	
- 1	80k	Growth of \$10,000
Ė		010,000
8		Vanguard Institutional Index
4	40k	Instl PI
	**	30 6/15

1606	20	0.47	0.01	1.39	186.63	2015					3	
1409	26	-0.10	-0.01	11.95	203.84	2016						
1396	28	0.13	-0.02	21.82	243.48	2017					/	
1402	25	0.38	-0.02	-4.41	227.57	2018						
1387	23	0.06	0.00	-4.41 31.48	243.48 227.57 290.25 331.48	2019						}}
1606 1409 1396 1402 1387 1363	ജ	-2.56	0.01	18.41	331.48	2020						
1382	23	2.23	-0.02	28.69	405.80	2021						1
1358	51	1.00	-0.02	-18.13	321.62	12-22		4k	Ş	10	20k	· ·
No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	Performance Quartile (within category)		38,680	Standard Index	— Calegoly Average 31 104	38,645

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a separate agreement, you may use this report formation of Morningstar, (2) may include, or be investment advice offered by Morningstar, (5) investment advice offered by Haw. Morningstar shall not the write required by Haw. Morningstar shall nare as of the date written and are subject to otherwise returned by the U.S. Securities a return and governed by the U.S. Securities and relevance of the date written and are subject to other and governed by the U.S. Securities and the results of the date	Base Currency: Ticker: ISIN: Minimum Initial Purchase:
t only in the country in which its original electron, account information provided salely for information have provided salely for information and the responsible for any trading declarange without notice. Investment res	USD VIIIX US9220402096 : \$100 mil
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lyses and the verified by the verified by sell a security, sell areauth this related to this related to this related to this verified the verified by the veri	

12-Month Yield Potential Cap Gains Exp

68.18% 1.72%

> Healthcare Consumer Defensive Defensive Technology Industrials

44.67.3
5.2
9.1
23.0 **26.7**7.6
15.9
3.2

1.00 1.00 1.00 1.00 1.00 1.00 1.00

Energy

Communication Services

Sensitive



Vanguard Institutional Total International Stock Market Index Trust

International stock fund

Fund facts

2069	06/24/16	\$20,173 MM	4 5	ω	2	_	
number	date	assets	ightarrow High			Low €	
	III caption	. 0	,		2	May 1444	

Investment objective

excluding the United States. located in developed and emerging markets, investment return of stocks issued by companies of a benchmark index that measures the Market Index Trust seeks to track the performance Vanguard Institutional Total International Stock

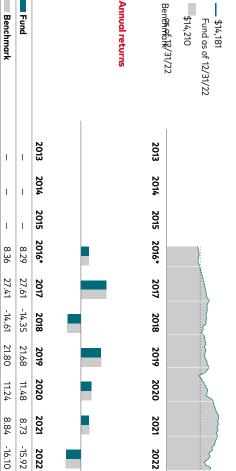
Investment strategy

more than 5,300 stocks of companies located in 46 countries. The trust invests substantially all of its assets in the common stocks included in its target The trust portfolio employs an indexing investment approach designed to track the performance of the FTSE Global All Cap ex US Index, a excluding the United States. The index includes located in developed and emerging markets measure equity market performance of companies market-capitalization-weighted index designed to free-float-adjusted

Benchmark

FTSE Global All Cap ex US Index

Growth of a \$10,000 investment: June 30, 2016—December 31, 2022



Total returns

Periods ended December 31, 2022

43

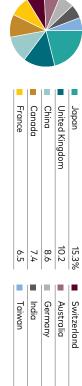
	Quarter	Year to date	One year	Three years	Five years	Since inception
Fund	14.72%	-15.92%	-15.92%	0.63%	1.21%	6.06%
Benchmark	14.14%	-16.10%	-16.10%	0.52%	1.10%	I

For performance data current to the most recent month-end, visit our website at less than their original cost. Current performance may be lower or higher than the performance data cited. The performance data shown represent past performance, which is not a guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or

Figures for periods of less than one year are cumulative returns. All other figures represent average annual investment, as you cannot invest directly in an index. <u>vanguard.com/performance</u>. The performance of an index is not an exact representation of any particular

returns. Performance figures include the reinvestment of all dividends and any capital gains distributions. All

Market allocation-stocks



5.8 5.2 4.8 4.5

^{*}Partial return since fund started, June 24, 2016.

*Partial return since fund started, June 24, 2016.

*TSE Global All Cap ex US Index: Consists of large-, mid-, and small-cap stocks globally, excluding the U.S. The index is derived from the FTSE Global Equity Index Series (GEIS), which covers approximately 98% of the world's investable market capitalization. Index returns are adjusted for withholding taxes

Vanguard Institutional Total International Stock Market Index Trust

International stock fund

Ten largest holdings*

_	Taiwan Semiconductor Manufacturing Co. Ltd.
2	Nestle SA
ω	Tencent Holdings Ltd.
4	Samsung Electronics Co. Ltd.
ъ	Roche Holding AG
6	ASML Holding NV
7	Novo Nordisk A/S
∞	Shell plc
9	AstraZeneca plc
10	10 Novartis AG

investments and equity index products * The holdings listed exclude any temporary cash

Top 10 as % of total net assets

Sector Diversification



Industrials

Financials

Technology



6.0 3.5

0.1

Sector categories are based on the Industry Classification Benchmark system ("ICB"), except for the "Other" category (if applicable), which includes securities that have not been provided an ICB classification as of the effective reporting period.

Plain talk about risk

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An investment in the trust portfolio could lose money over short or even long periods. You should expect the trust portfolio's share price and total return to fluctuate within a wide range, like the fluctuations of the overall stock market. The trust portfolio's performance could be hurt by:

Stock market risk: The chance that stock prices overall will decline. Stock markets tend to move in cycles, with periods of rising stock prices and periods of falling stock prices. The fund's investments in foreign stocks can be riskier than U.S. stock investments. Foreign stocks tend to be more volatile and less liquid than U.S. stocks. The prices of foreign stocks and the prices of U.S. stocks may move in opposite directions. In addition, the fund's target index may, at times, become focused in stocks of a particular market sector, which would subject the fund to proportionately higher exposure to the risks of that sector.

companies in foreign countries or regions. Because the fund may invest a large portion of its assets in securities of companies located in any one country or region, its performance may be hurt disproportionately by the poor performance of its investments in that area. Country/regional risk is especially high in emerging markets. Country/regional risk: The chance that world events—such as political upheaval, financial troubles, or natural disasters—will adversely affect the value of securities issued by

Investment style risk: The chance that returns from small- and mid-capitalization stocks, to the extent that the fund invests in them, will trail returns from the overall stock market. Historically, these stocks have been more volatile in price than the large-cap stocks that dominate the overall market, and they often perform quite differently. Currency risk: The chance that the value of a foreign investment, measured in U.S. dollars, will decrease because of unfavorable changes in currency exchange rates

located in more developed foreign markets. Emerging markets risk: The chance the stocks of companies located in emerging markets will be substantially more volatile, and substantially less liquid, than the stocks of companies

Note on frequent trading restrictions

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about a fund are contained in the prospectus; read and consider it carefully before investing Visit vanguard.com to obtain a prospectus or, if available, a summary prospectus. Investment objectives, risks, charges, expenses, and other important information

Index Admiral (USD) Vanguard Mid-Cap Growth

X Gold 01-23-2023

Morningstar Analyst Rating™ Overall Morningstar Rating™ 534 US Fund Mid-Cap Growth

S&P 500 TR USD

Standard Index

Russell Mid Cap Growth TR USD Category Index

Growth US Fund Mid-Cap **Morningstar Cat**

No. in Cat	% Rank Cat		+/- Std Index -	Total Return -:	Std 12-31-2022 -:	Load-adj Mthly -:	Trailing Returns		2021		Quarterly Returns	Performance 12-31-2022
586	64	-2.12	10.73	-28.84	-28.84	-28.84	1 ¥r	-12.32	1.25	-20.05	1st Otr	1-2022
534	42	1.00	-2.81	4.86		4.86	3 Yr	-21.19	10.25	30.58	2nd Otr	
499	40	0.17	-1.61	7.81	7.81	7.81	5 Yr	-2.58	0.16	9.26	3rd Otr	
389	45	-0.50	-1.66	10.90	10.90	10.90	10 Yr		7.76	17.90	4th Otr	
		ı	ı	11.37	11.37	11.37	Incept	-28.84	20.48	34.48	Total %	
2011				2							100	
2012											100	
2013				١							100	
2014						\					99	

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 01-30-23

0.81

0.81

25.66 -3.68 -5.79 -2.03

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 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

rees allu Expelises	
Sales Charges	
Front-End Load % Deferred Load %	N N
Fund Expenses	
Management Fees %	0.06

Net Expense Ratio % Gross Expense Ratio %

0.07 0.07

12b1 Expense %

Risk and Return Profile			
	3 Yr	5Yr	10 Yr
	534 funds	499 funds	389 funds
Morningstar Rating™	3⊁	3 ⊁	3 ⊁
Morningstar Risk	Avg	Avg	Avg
Morningstar Return	Avg	Avg	Avg
	3 Yr	5Yr	10 Yr
Standard Deviation	24.98	21.70	17.11
Mean	4.86	7.81	10.90
Sharpe Ratio	0.28	0.39	0.64
MPT Statistics	Standard Index	dex Be	Best Fit Index
		Brd	Brd Grt TR USD
\ I _ L _	٥	2 70	2

737	3	0.15	29.55 15.96	2012		100	
703	88	-0.17 -3.52	38.83 32.22	2013		100	
749	5	-0.21 1.58	43.72 13.48	2014		99	
733	51	-2.36 -0.78	42.94 -0.98	2015		100	
644	40	-5.21 -0.58	45.46 6.75	2016		100	
617	63	0.00	54.96 21.83	2017		100	
605	46	-1.22 -0.85	51.48 -5.60	2018		100	
618	42	2.37 -1.61	68.34 33.86	2019		100	
604	4	16.08 -1.11	91.26 34.48	2020		100	
588	19	-8.23 7.75	109.55 20.48	2021		100	
586	62	-10.73 -2.12	77.37	12-22		99	
7	.0	+ +	⊣	_	~ T	::100k	n = 1
No. of Funds in Cat	% Rank Cat	+/- Standard Index +/- Category Index	NAV/Price Total Return %	History	Performance Quartile (within category)	Stocks % Growth of \$10,000 Wanguard Mid-Cal Index Admiral 31,437 Category Average 28,223 Standard Index 38,680	Investment Style

ndex Admiral /anguard Mid-Cap Growth th of \$10,000

Portfolio Analysis 12-31-2022	s 12-31-2022						
Asset Allocation %	Net %	Long % S	Short %	Share Chg	Share		Net A
Cash	0.66	0.66	0.00	since	Amount	166 Total Stocks, 0 Total Fixed-Income,	
US Stocks	98.09	98.09	0.00	7707-11	:	25% Turriover natio	
Non-US Stocks	1.25	1.25	0.00	1	4 mil	Amphenol Corp Class A	
Bonds	0.00	0.00	0.00	①	2 mil	Cadence Design Systems Inc	
Other/Not Clsfd	0.00	0.00	0.00	1	3 mil	DexCom Inc	
Total	100.00	100.00	0.00	⊕	1 mil	Motorola Solutions Inc	
				1	4 mil	4 mil Devon Energy Corp	
Equity Style	Portfolio Statistics	Port Rel Avg Index	Cat B	⊕	4 mil	4 mil Realty Income Corp	
Value Dielid Grown	P/E Ratio TTM		0.94	①	2 mil	2 mil Hess Corp	
96	P/C Ratio TTM		0.91	①	588,654	588,654 Cintas Corp	
biM		4.3 1.19	1.0/	①	4 mil	4 mil Microchip Technology Inc	
llsm2	\$mil	20113 0.14	-	1	1 mi	1 mil IQVIA Holdings Inc	
				D	2 mil	2 mil Cheniere Energy Inc	
Fixed-Income Style	Associated Association			()	926,993	926,993 Enphase Energy Inc	

→ Defensive ☐ Consumer Defensive ☐ Healthcare ☑ Utilities	1.01 0.00 0.00	100.0 0.0 0.0	Americas Greater Europe Greater Asia
i ecillology	Rel Std Index	Stocks %	Regional Exposure
	I		NR
★ Energy			Below B
Communication Services			В
∨ Sensitive			BB
Real Estate			BBB
Financial Services			Þ
Consumer Cyclical			AA
Basic Materials			AAA
.e cyclical	Bond %	lown —	Credit Quality Breakdown —
Sector Weightings			M
	I	Avg vvia Filce	og pe
357 288		Avg Wtd Coupon	PW
2 mil	1	Avg Eff Duration	чбін
518,044		Avg Eff Direction	Ltd Mod Ext
⊕ 926,993 Enphase Energy Inc		7	Fixed-Income Style
 2 mil Cheniere Energy Inc 			

3.9 11.3 5.5 7.1

0.97 1.58 1.18 0.39 2.54

Rel Std Index

1.19

1.37 1.32 1.30 1.25

54.64.7
7.6
13.5
28.9

1.22 0.65 1.45 1.48 1.25

ll a security,	ot be verified by	yses and	

Objective:

Growth 9.9 Years Multiple Vanguard

Tenure:

Manager: Family:

Ticker: ISIN:

Incept:

09-27-2011

16.3 0.0

17.6

0.66 0.18 1.02

Purchase Constraints:

Base Currency:

Minimum Initial Purchase:

\$3,000 US9219377283 **VMGMX**

Total Assets:

\$9,926.31 mil

Beta Alpha

88.29 -2.73 1.11

1.04

0.78% 33.06% 99.36 -1.08

Potential Cap Gains Exp 12-Month Yield R-Squared

1.46 1.47

1.66 1.62 1.60 1.58

1.43 1.42 1.40

Vanguard Mid-Cap Value **index Admiral (USD)**

Cold 01-24-2023 Morningstar Analyst Rating™ Overall Morningstar Rating™ Standard Index

393 US Fund Mid-Cap Value

99

100

100

100

Investment Style Equity Stocks %

: 100 : 60k

Growth of \$10,000

₩, 40k

32,779

Vanguard Mid-Cap Value Index Admiral

: 20k

: 10k

Category Average 27,754Standard Index 38,680

4

S&P 500 TR USD

Category Index
Russell Mid Cap
Value TR USD

Morningstar Cat
US Fund Mid-Cap
Value

No. in Cat	% Rank Cat	+/- Std Index +/- Cat Index	Std 12-31-2022 Total Return	Trailing Returns Load-adj Mthly	2021 2022	2020	Quarterly Returns	Performance 12-31-2022
405	47	10.21 4.13		1 Yr / -7.90	13.70 0.04	-31.36	1st Otr	12-31-2022
393	50	-0.92 0.92	6.74	3 Yr 6.74	4.84 -13.05	18.65	1st Otr 2nd Otr	
372	40	-3.03 0.67	6.39 6.39	5 Yr 6.39	-0.19 -5.55	6.58	3rd Otr	
272	13	-1.59 0.87	10.98 10.98	10 Yr 10.98	8.21 12.11		4th Otr	
		1 1	12.03 12.03	Incept 12.03	28.76 -7.90	2.54	Total %	
2011			2				99	
2012							1 00	<u> </u>
2013			1				100	
21				-	1 1			
2014	Ш			\			100	<u> </u>
2015								
			3				100	
2015							100	

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 01-30-23 (if applicable) Morningstar metrics. Performance Disclosure 7-day Yield 2.32 2.32

Subsidized

Unsubsidized

2019

2020

2021

12-22

History

Performance Quartile (within category)

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

Sales Charges	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
---------------	-------------------	--	--

Total

100.00

Front-End Load % Deferred Load %	N N
Fund Expenses	
Management Fees %	0.06
12b1 Expense %	NA
Net Expense Ratio %	0.07
Gross Expense Ratio %	0.07
Risk and Return Profile	

Risk and Return Profile			
	3 Yr	5 Yr	10 Yr
	393 funds	372 funds	272 funds
Morningstar Rating™	3 ⊁	3 ⊁	5 ≯
Morningstar Risk	Avg	Avg	Avg
Morningstar Return	Avg	Avg	+Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	24.01	21.04	16.53
Mean	6.74	6.39	10.98
Sharpe Ratio	0.36	0.34	0.67
MPT Statistics	Standard Index		Best Fit Index
		Wornings Brd	Brd Val TR USD
Alpha	-0.53	ස	-0.31
Beta	1.05	95	0.97
R-Squared	85.31	31	99.46
12-Month Yield			2.27%
Potential Cap Gains Exp			21.96%

Asset Allocation % Cash US Stocks Non-US Stocks Bonds Other/Not Clsfd	Portfoli	I		1.10	-2.40	-0.29	26.77
ks Stocks	io Analy	425	57	-2.48	0.02	16.02	30.47
6	Portfolio Analysis 12-31-2022	415	25	4.20	5.27	37.66	41.30
	1-2022	460	⇉	-0.77	0.30	13.98	46.30
Net % 0.41 97.96 1.63 0.00 0.00		471	17	2.98	-3.18	-1.80	44.54
Long % 0.41 97.96 1.63 0.00 0.00		399	71	-4.74	3.30	15.26	50.31
Short % 0.00 0.00 0.00 0.00 0.00		405	ವ	3.70	-4.79	17.04	57.74
Share Chg since 11-2022		417	45	-0.13	-8.04	12.42	49.33
_		422	32	0.93	-3.49	27.99	61.79
Share Amount 5 mil 5 mil 6 mil 2 mil		415	엸	-2.42	-15.86	2.54	61.61
Holdings: 195 Total Stocks, 0 17% Turnover Ratio Centene Corp Corteva Inc Arthur J. Gallag		413	ස	0.42	0.05	28.76	77.84
Share Holdings: whount 195 Total Stocks, 0 Total Fixed whount 17% Tumover Ratio 17% Tumover Ratio 5 mil Centene Corp 6 mil Corteva Inc 2 mil Arthur J. Gallagher & Co		405	47	4.13	10.21	-7.90	70.08
Share Holdings: mount 195 Total Stocks , 0 Total Fixed-Income, 17% Tumover Ratio 5 mil Centene Corp 6 mil Corteva Inc 2 mil Arthur J. Gallagher & Co		No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price

					٠.	₹ I	
				0	Rland	ity Style	
				o o o o	Grawth	е	
	llsm2	biM	абл	7			
	\$mil	P/B Ratio TTM	P/C Ratio TTM	P/E Ratio TTM		Portfolio Statistics	
	21//4	2.1	10.3	13.4	Avg	Port	
	C. 14	0.60	0.73	0.71	Index	Rel	
	1.//	1.14	1.05	1.04	Cat	윤	
)	1	(<u>)</u> (D	1	; (

MOT	рәуу	чбін	Mod Ext	d-Income Style	
	Avg Wtd Price	Avg Eff Duration Avg Wtd Coupon	Avg Eff Maturity		•

Fixe

	Qua					Mod	inco	
	lity Brea	мот	paW	ųt	iн	Ext	Income Style	
	Quality Breakdown —		Avg Wtd Price	Avg Wtd Coupon	Avg Eff Duration	Avg Eff Maturity		
1	Bond %		ı	1	1	ı		

M		
Credit Quality Breakdown —		Bond %
AAA		
AA		
Α		ı
BBB		1
BB		
В		I
Below B		I
NR		l
Regional Exposure	Stocks %	Rel Std Index
Americas	98.4	0.99
Greater Europe	1.3	1.19
Greater Asia	0.3	10.68

							0.00	10.3 0./3		Avg Index	2	100.00		0.00				Long % Sh
	-					.,,	1 77	1.05	1.04	Cat	2	0.00	0.00	0.00	0.00	0.00	000	Short %
Sector Weightings	1	1	1	1	①	1	⊕	1	1	①	1	1	1	1	1	11-2022	since	Share Chg
ightings	9 mil	3 mil	1 mil	2 mil	2 mil	3 mil	9 mil	943,828	2 mil	3 mil	19 mil	7 mil	2 mil	6 mil	5 mil		Amount	Share
Stocks %	Baker Hughes Co Class A	WEC Energy Group Inc	Rockwell Automation Inc	Dollar Tree Inc	Keysight Technologies Inc	PACCAR Inc	VICI Properties Inc Ordinary Shares	Ameriprise Financial Inc	Nucor Corp	Consolidated Edison Inc	PG&E Corp	Carrier Global Corp Ordinary Shares	Arthur J. Gallagher & Co	Corteva Inc	Centene Corp	17% Turnover Ratio	195 Total Stocks, 0 Total Fixed-Income,	Holdings:
Rel Std Index	0.94	0.94	0.94	0.95	0.97	0.99	1.03	1.06	1.08	1.08	1.09	1.10	1.27	1.35	1.48		%	Net Assets

Sector Weightings	Stocks %	Hel Std Index
∿ Cyclical	43.8	1.52
Basic Materials	5.5	2.22
Consumer Cyclical	8.4	0.88
Financial Services	19.1	1.37
♠ Real Estate	10.8	3.86
₩ Sensitive	27.3	0.61
Communication Services	2.5	0.35
∆ Energy	4.6	0.88
ndustrials	13.1	1.45
Technology	7.0	0.30
→ Defensive	29.0	1.08
Consumer Defensive	6.9	0.90
♣ Healthcare	8.5	0.54
Utilities	13.6	4.26
Purchase Constraints:	1	
Incept:	09-27-2011	
Type:	MF	
Total Assets:	\$16,860.38 mil	

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Objective: Tenure: Manager: Family:

Minimum Initial Purchase:

\$3,000 US9219376947 VMVAX

Multiple 16.4 Years Growth

Vanguard

Base Currency:



Vanguard Target Retirement 2020 Trust II

Balanced fund (stocks and bonds)

Fund facts

							ı
1474	02/29/08	0.075%	\$6,484 MM	5	ω	1 2	
number	date	as of 03/31/21	assets	ightarrow Hig		×	Low
Fund	Inception	Expense ratio	Total net		_	Risk leve	굕

Investment objective

Vanguard Target Retirement 2020 Trust II seeks to provide capital appreciation and current income consistent with its current asset allocation.

nvestment strategy

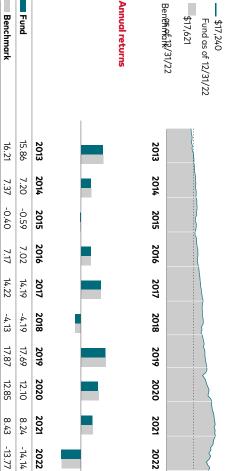
The trust invests in other Vanguard mutual funds and trusts according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2020 (the target year). The trust's asset allocation will become more conservative over time, meaning that the percentage of assets allocated to stocks will decrease while the percentage of assets allocated to bonds and other fixed income investments will increase. Within seven years after 2020, the trust's asset allocation should resemble that of the Target Retirement Income Trust II. The underlying holdings are: Vanguard Total Stock Market Index Fund, Vanguard Institutional Total International Stock Market Index Fund, and Vanguard Total International Stock Market Index Fund, and Vanguard Total Index Fund Inflation-Protected Securities Fund.

The trust's indirect bond holdings are a diversified mix of short-, intermediate-, and long-term U.S. government, U.S. agency, and investment-grade U.S. corporate bonds; inflation-protected public obligations issued by the U.S. Treasury; mortgage-backed and asset-backed securitize; and government, agency, corporate, and securitized investment-grade foreign bonds issued in currencies other than the U.S. dollar (but hedged by Vanguard to minimize foreign currency exposure). The trust's indirect stock holdings are a diversified mix of U.S. and foreign large-, mid-, and small-capitalization stocks.

Benchmark

Target Retirement 2020 Composite Ix

Growth of a \$10,000 investment: January 31, 2013—December 31, 2022



Total returns

	ו כווסמט פוומפט הככפוווהפו טו, בטבב	Carlods anded lacers	,
	11001 01, 1011	Ther A	

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	5.00%	-14.14%	-14.14%	1.37%	3.27%	5.89%
Benchmark	5.12%	-13.77%	-13.77%	1.80%	3.58%	6.13%

For performance data current to the most recent month-end, visit our website at less than their original cost. Current performance may be lower or higher than the performance data cited. The performance data shown represent past performance, which is not a guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or

investment, as you cannot invest directly in an index. <u>vanguard.com/performance</u>. The performance of an index is not an exact representation of any particular

returns. Performance figures include the reinvestment of all dividends and any capital gains distributions. All Figures for periods of less than one year are cumulative returns. All other figures represent average annual

Target Retirement 2020 Composite Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for emerging-market stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Bloomberg U.S. Aggregate Float Adjusted Index thereafter, as well as the Bloomberg U.S. Treasury Inflation-Protected Securities (TIPS) 0-5 Year Index; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index Hedged beginning June 3, 2013; and for U.S. stocks, the MSCI US Broad Market Index through June 2, 2013,

Vanguard Target Retirement 2020 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds





Inst Tt Int Stk Idx Trust II 17.6

'Fund holdings are subject to change.



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Plain talk about risk

funds, the trust also is subject to asset allocation risk, which is the chance that the selection of underlying funds and the allocation of fund assets will cause the trust to underperform other trusts with a similar investment objective. Investments in Target Retirement Trusts are subject to the risks of their underlying funds. The year in the trust name refers to the approximate year 2020 when an investor in the trust would retire and leave the workforce. The trust will gradually shift its emphasis from more aggressive investments to more The trust is subject to several stock and bond market risks, any of which could cause an investor to lose money. However, based on the trust's current allocation between stocks and the less volatile asset class of bonds, the trust's overall level of risk should be higher than those trusts that invest mostly in bonds, but lower than those investing mostly in stocks. As conservative ones based on its target date. An investment in the Target Retirement Trust is not guaranteed at any time, including on or after the target date. the trust's allocation between underlying funds gradually changes, the trust's overall level of risk also will decline. In addition to the risks inherent in the asset classes of the underlying

Note on frequent trading restrictions

Participant Services at 800-523-1188 for additional information. Frequent trading policies may apply to those funds offered as investment options within your plan. Please log on to vanguard.com for your employer plans or contact

This investment is not a mutual fund. It is a collective trust available only to tax-qualified plans and their eligible participants

This collective trust is managed by Vanguard Fiduciary Trust Company, a wholly owned subsidiary of The Vanguard Group, Inc., and is not a mutual fund. Investment objectives, risks, charges, expenses, and other important information should be considered carefully before investing.

For more information about Vanguard investments, see below for which situation is right for you.

please call **855-402-2646** If you receive your retirement plan statement from a service provider other than Vanguard or log on to a recordkeeper's website that is not Vanguard to view your plan, lf you receive your retirement plan statement from Vanguard or log on to Vanguard's website to view your plan, visit vanguard.com or call 800-523-1188



Vanguard Target Retirement 2025 Trust II

Balanced fund (stocks and bonds)

Fund facts

	01/11/00		#11/00 FFFF	
147	02/29/08	0 075%	\$12,900 MM	1 2 3 4 5
number	date	as of 03/31/21	assets	Low < High
Func	Inception	Expense ratio	Total net	Risk level

Investment objective

Vanguard Target Retirement 2025 Trust II seeks to provide capital appreciation and current income consistent with its current asset allocation.

Investment strategy

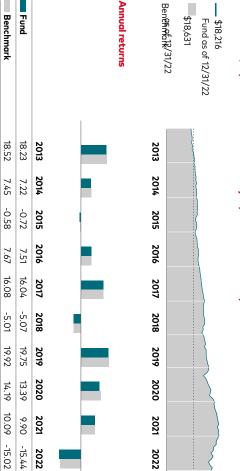
Vanguard are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, asset allocation should resemble that of the Target to bonds and other fixed income investments will increase. Within seven years after 2025, the trust's become more conservative over time, meaning that the percentage of assets allocated to stocks will and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Market Index Trust II, Vanguard Total International Vanguard Institutional Total International Stock Retirement Income Trust II. The underlying holdings increase. Within seven years after 2025, decrease while the percentage of assets allocated target year). The trust's asset allocation will the workforce in or within a few years of 2025 (the The trust invests in other Vanguard mutual funds and Vanguard Short-Term

The trust's indirect bond holdings are a diversified mix of short-, intermediate-, and long-term U.S. government, U.S. agency, and investment-grade U.S. corporate bonds; inflation-protected public obligations issued by the U.S. Treasury; mortgage-backed and asset-backed securitize; and government, agency, corporate, and securitized investment-grade foreign bonds issued in currencies other than the U.S. dollar (but hedged by Vanguard to minimize foreign currency exposure). The trust's indirect stock holdings are a diversified mix of U.S. and foreign large-, mid-, and small-capitalization stocks.

Benchmark

Target Retirement 2025 Composite Ix

Growth of a \$10,000 investment: January 31, 2013—December 31, 2022



Total returns

Ten years	Five years	Three years	One year	Year to date	Quarter
Periods ended December 31, 2022	eriods ended Dec	Pe			

Fund The performance data shown represent past performance, which is not a guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or Benchmark 6.16% -15.02% -15.02% 2.23% 4.01% 6.77%

<u>vanguard.com/performance</u>. The performance of an index is not an exact representation of any particular For performance data current to the most recent month-end, visit our website at less than their original cost. Current performance may be lower or higher than the performance data cited.

returns. Performance figures include the reinvestment of all dividends and any capital gains distributions. All Figures for periods of less than one year are cumulative returns. All other figures represent average annual investment, as you cannot invest directly in an index.

Target Retirement 2025 Composite Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for emerging-market stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Bloomberg U.S. Aggregate Float Adjusted Index thereafter, as well as the Bloomberg U.S. Treasury Inflation-Protected Securities (TIPS) 0-5 Year Index; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index Hedged beginning June 3, 2013; and for U.S. stocks, the Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005, the MSCI US Broad Market Index through June 2, 2013, and the CRSP US Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes

Vanguard Target Retirement 2025 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds





Total Intl Bnd II 12.2
STerm Inf Pro Sec Idx Fund 3.8

†Fund holdings are subject to change.

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Plain talk about risk

funds, the trust also is subject to asset allocation risk, which is the chance that the selection of underlying funds and the allocation of fund assets will cause the trust to underperform other trusts with a similar investment objective. Investments in Target Retirement Trusts are subject to the risks of their underlying funds. The year in the trust name refers to the approximate year 2025 when an investor in the trust would retire and leave the workforce. The trust will gradually shift its emphasis from more aggressive investments to more The trust is subject to several stock and bond market risks, any of which could cause an investor to lose money. However, based on the trust's current allocation between stocks and the less volatile asset class of bonds, the trust's overall level of risk should be higher than those trusts that invest mostly in bonds, but lower than those investing mostly in stocks. As conservative ones based on its target date. An investment in the Target Retirement Trust is not guaranteed at any time, including on or after the target date. the trust's allocation between underlying funds gradually changes, the trust's overall level of risk also will decline. In addition to the risks inherent in the asset classes of the underlying

Note on frequent trading restrictions

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please call 855-402-2646. If you receive your retirement plan statement from a service provider other than Vanguard or log on to a recordkeeper's website that is not Vanguard to view your plan, lf you receive your retirement plan statement from Vanguard or log on to Vanguard's website to view your plan, visit vanguard.com or call 800-523-1188



Vanguard Target Retirement 2030 Trust II

Balanced fund (stocks and bonds)

Fund facts

1476	02/29/08	0.075%	\$15,478 MM	4 5	ω	1 2	
number	date	as of 03/31/21	assets	→ High		\	Low
Fund	Inception	Expense ratio	Total net		_	Risk leve	굕

Investment objective

Vanguard Target Retirement 2030 Trust II seeks to provide capital appreciation and current income consistent with its current asset allocation.

Investment strategy

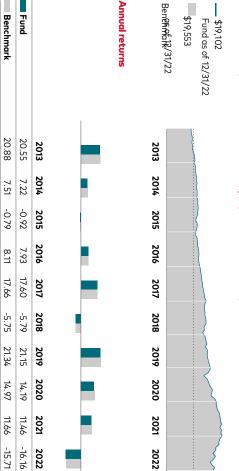
The trust invests in other Vanguard mutual funds and trusts according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2030 (the target year). The trust's asset allocation will become more conservative over time, meaning that the percentage of assets allocated to stocks will decrease while the percentage of assets allocated to bonds and other fixed income investments will increase. Within seven years after 2030, the trust's asset allocation should resemble that of the Target Retirement Income Trust II. The underlying holdings are: Vanguard Total Stock Market Index Fund, Vanguard Institutional Total International Stock Market Index Trust II, Vanguard Total International Bond II Index Fund, and Vanguard Short-Term Inflation-Protected Securities Fund.

The trust's indirect bond holdings are a diversified mix of short-, intermediate-, and long-term U.S. government, U.S. agency, and investment-grade U.S. corporate bonds; inflation-protected public obligations issued by the U.S. Treasury; mortgage-backed and asset-backed securitize; and government, agency, corporate, and securitized investment-grade foreign bonds issued in currencies other than the U.S. dollar (but hedged by Vanguard to minimize foreign currency exposure). The trust's indirect stock holdings are a diversified mix of U.S. and foreign large-, mid-, and small-capitalization stocks.

Benchmark

Target Retirement 2030 Composite Ix

Growth of a \$10,000 investment: January 31, 2013—December 31, 2022



Total returns

Ton yours	Eive veers	Three veers	One year	Vegr to date	1
Periods ended December 31, 2022	eriods ended De	ח			

51

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	6.79%	-16.16%	-16.16%	2.19%	4.02%	7.07%
Benchmark	6.92%	-15.71%	-15.71%	2.67%	4.36%	7.34%

For performance data current to the most recent month-end, visit our website at less than their original cost. Current performance may be lower or higher than the performance data cited. The performance data shown represent past performance, which is not a guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or

investment, as you cannot invest directly in an index. <u>vanguard.com/performance</u>. The performance of an index is not an exact representation of any particular

returns. Performance figures include the reinvestment of all dividends and any capital gains distributions. All Figures for periods of less than one year are cumulative returns. All other figures represent average annual

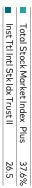
Target Retirement 2030 Composite Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for emerging-market stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Bloomberg U.S. Aggregate Float Adjusted RIC Capped Index Hedged beginning June 3, 2013; and for U.S. stocks, the MSCI US Broad Market Index through June 2, 2013, and the CRSP US Total Market Index thereafter. International stock benchmark returns

Vanguard Target Retirement 2030 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds







*Fund holdings are subject to change.

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Plain talk about risk

funds, the fund also is subject to asset allocation risk, which is the chance that the selection of underlying funds and the allocation of fund assets will cause the fund to underperform other funds with a similar investment objective. Investments in Target Retirement Trusts are subject to the risks of their underlying funds. The year in the trust name refers to the approximate year 2030 when an investor in the trust would retire and leave the workforce. The trust will gradually shift its emphasis from more aggressive investments to more The fund is subject to several stock and bond market risks, any of which could cause an investor to lose money. However, based on the fund's current allocation between stocks and the less volatile asset class of bonds, the fund's overall level of risk should be higher than those funds that invest mostly in bonds, but lower than those investing mostly in stocks. As conservative ones based on its target date. An investment in the Target Retirement Trust is not guaranteed at any time, including on or after the target date. the fund's allocation between underlying funds gradually changes, the fund's overall level of risk also will decline. In addition to the risks inherent in the asset classes of the underlying

Note on frequent trading restrictions

Participant Services at 800-523-1188 for additional information. Frequent trading policies may apply to those funds offered as investment options within your plan. Please log on to vanguard.com for your employer plans or contact

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Vanguard Target Retirement 2035 Trust II

Balanced fund (stocks and bonds)

Fund facts

Investment objective

consistent with its current asset allocation provide capital appreciation and current income Vanguard Target Retirement 2035 Trust II seeks to

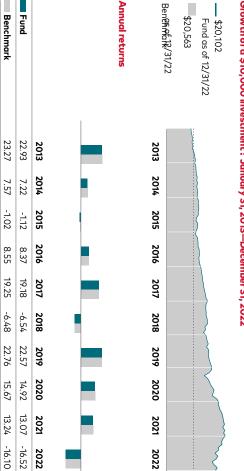
Vanguard are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, to bonds and other fixed income investments will increase. Within seven years after 2035, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Market Index Trust II, Vanguard Total International Vanguard Institutional Total International Stock Retirement Income Trust II. The underlying holdings asset allocation should resemble that of the Target decrease while the percentage of assets allocated the percentage of assets allocated to stocks will become more conservative over time, meaning that target year). The trust's asset allocation will the workforce in or within a few years of 2035 (the The trust invests in other Vanguard mutual funds and Vanguard Short-Term

government, U.S. agency, and investment-grade small-capitalization stocks mix of U.S. and foreign large-, mid-, and The trust's indirect stock holdings are a diversified Vanguard to minimize foreign currency exposure) currencies other than the U.S. dollar (but hedged by investment-grade foreign bonds issued in government, agency, corporate, and securitized mortgage-backed and asset-backed securities; and obligations issued by the U.S. Treasury; U.S. corporate bonds; inflation-protected public mix of short-, intermediate-, and long-term U.S The trust's indirect bond holdings are a diversified

Benchmark

Target Retirement 2035 Composite Ix

Growth of a \$10,000 investment: January 31, 2013—December 31, 2022



Total returns

	Teriods ended December 31 (1)()

53

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	7.51%	-16.52%	-16.52%	2.75%	4.44%	7.66%
Benchmark	7.57%	-16.10%	-16.10%	3.19%	4.76%	7.92%

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returns. Performance figures include the reinvestment of all dividends and any capital gains distributions. All

Target Retirement 2035 Composite Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for emerging-market stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Bloomberg U.S. Aggregate Float Adjusted Index thereafter; for international bonds, the Bloomberg U.S. Aggregate ex-USD Float Adjusted RIC Capped Index Hedged beginning June 3, 2013, and for U.S. stocks, the Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through Page 12, 2005, the MSCI US Broad June 3, 2013, and for U.S. stocks, the Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through Page 12, 2005, the MSCI US Broad June 3, 2013, and for U.S. stocks, the Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through Page 12, 2005, the MSCI US Broad June 3, 2013, and for U.S. stocks, the Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through Page 12, 2005, the MSCI US Broad June 3, 2013, and for U.S. stocks, the Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through Page 12, 2005, the MSCI US Broad June 3, 2013, and for U.S. stocks, the Bloomer 15, 2015, the MSCI US Broad June 3, 2013, and for U.S. stocks, the Bloomer 15, 2015, the MSCI US Broad June 3, 2015, and a stock Market Index through June 2, 2013, and the CRSP US Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes

Vanguard Target Retirement 2035 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds



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*Fund holdings are subject to change.	Inst Ttl Intl Stk Idx Trust II	Total Stock Market Index Plus
	29.7	41.8%



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Plain talk about risk

funds, the trust also is subject to asset allocation risk, which is the chance that the selection of underlying funds and the allocation of fund assets will cause the trust to underperform other funds with a similar investment objective. Investments in Target Retirement Trusts are subject to the risks of their underlying funds. The year in the trust name refers to the approximate year 2035 when an investor in the trust would retire and leave the workforce. The trust will gradually shift its emphasis from more aggressive investments to more The trust is subject to several stock and bond market risks, any of which could cause an investor to lose money. However, based on the trust's current allocation between stocks and the less volatile asset class of bonds, the fund's overall level of risk should be higher than those funds that invest mostly in bonds, but lower than those investing mostly in stocks. As conservative ones based on its target date. An investment in the Target Retirement Trust is not guaranteed at any time, including on or after the target date. the trust's allocation between underlying funds gradually changes, the trust's overall level of risk also will decline. In addition to the risks inherent in the asset classes of the underlying

Note on frequent trading restrictions

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Vanguard Target Retirement 2040 Trust II

Balanced fund (stocks and bonds)

Fund facts

1478	02/29/08	0.075%	\$13,380 MM	5	3 4	2	_
number	date	as of 03/31/21	assets	ightarrow Hig		$ \uparrow$	Low
Fund	Inception	Expense ratio	Total net			evel	Risk leve

Investment objective

Vanguard Target Retirement 2040 Trust II seeks to provide capital appreciation and current income consistent with its current asset allocation.

Investment strategy

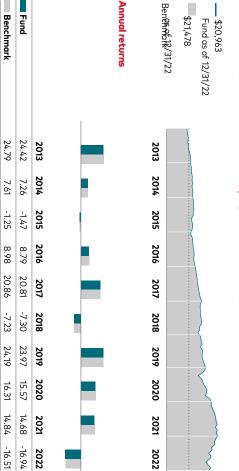
The trust invests in other Vanguard mutual funds and trusts according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2040 (the target year). The trust's asset allocation will become more conservative over time, meaning that the percentage of assets allocated to stocks will decrease while the percentage of assets allocated to bonds and other fixed income investments will increase. Within seven years after 2040, the trust's asset allocation should resemble that of the Target Retirement Income Trust II. The underlying holdings are: Vanguard Total Stock Market Index Fund, Vanguard Institutional Total International Stock Market Index Trust II, Vanguard Total International Bond II Index Fund, and Vanguard Short-Term Inflation-Protected Securities Fund.

The trust's indirect bond holdings are a diversified mix of short-, intermediate-, and long-term U.S. government, U.S. agency, and investment-grade U.S. corporate bonds; inflation-protected public obligations issued by the U.S. Treasury; mortgage-backed and asset-backed securitize; and government, agency, corporate, and securitized investment-grade foreign bonds issued in currencies other than the U.S. dollar (but hedged by Vanguard to minimize foreign currency exposure). The trust's indirect stock holdings are a diversified mix of U.S. and foreign large-, mid-, and small-capitalization stocks.

Benchmark

Target Retirement 2040 Composite lx

Growth of a \$10,000 investment: January 31, 2013—December 31, 2022



Total returns

<	
•	
)	
!	
!	Periods ended
•	Periods ended December 31, 2022
	12

55

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	8.19%	-16.94%	-16.94%	3.26%	4.82%	8.14%
Benchmark	8.23%	-16.51%	-16.51%	3.70%	5.14%	8.42%

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returns. Performance figures include the reinvestment of all dividends and any capital gains distributions. All Figures for periods of less than one year are cumulative returns. All other figures represent average annual

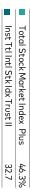
Target Retirement 2040 Composite Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for emerging-market stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Bloomberg U.S. Aggregate Float Adjusted RIC Capped Index Hedged beginning June 3, 2013; and for U.S. stocks, the MSCI US Broad Market Index through June 2, 2013, and the CRSP US Total Market Index thereafter. International stock benchmark returns

Vanguard Target Retirement 2040 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds







*Fund holdings are subject to change

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Plain talk about risk

funds, the trust also is subject to asset allocation risk, which is the chance that the selection of underlying funds and the allocation of fund assets will cause the trust to underperform other funds with a similar investment objective. Investments in Target Retirement Trusts are subject to the risks of their underlying funds. The year in the trust name refers to the approximate year 2040 when an investor in the trust would retire and leave the workforce. The trust will gradually shift its emphasis from more aggressive investments to more The trust is subject to several stock and bond market risks, any of which could cause an investor to lose money. However, based on the trust's current allocation between stocks and the less volatile asset class of bonds, the trust's overall level of risk should be higher than those funds that invest mostly in bonds, but lower than those investing mostly in stocks. As conservative ones based on its target date. An investment in the Target Retirement Trust is not guaranteed at any time, including on or after the target date. the trust's allocation between underlying funds gradually changes, the trust's overall level of risk also will decline. In addition to the risks inherent in the asset classes of the underlying

Note on frequent trading restrictions

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Vanguard Target Retirement 2045 Trust II

Balanced fund (stocks and bonds)

Fund facts

1479	02/29/08	0.075%	\$11,907 MM	3 4 5	2	_
number	date	as of 03/31/21	assets	→ High		Low
Fund	Inception	Expense ratio	Total net	,	Risk level	Risk

Investment objective

consistent with its current asset allocation provide capital appreciation and current income Vanguard Target Retirement 2045 Trust II seeks to

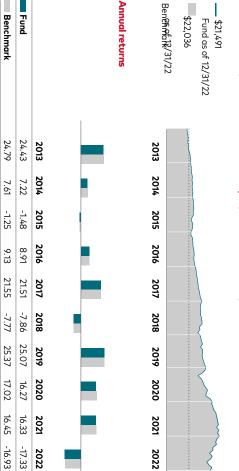
Vanguard are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, asset allocation should resemble that of the Target to bonds and other fixed income investments will increase. Within seven years after 2045, the trust's become more conservative over time, meaning that the percentage of assets allocated to stocks will and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Market Index Trust II, Vanguard Total International Vanguard Institutional Total International Stock Retirement Income Trust II. The underlying holdings decrease while the percentage of assets allocated target year). The trust's asset allocation will the workforce in or within a few years of 2045 (the The trust invests in other Vanguard mutual funds and Vanguard Short-Term

government, U.S. agency, and investment-grade small-capitalization stocks mix of U.S. and foreign large-, mid-, and The trust's indirect stock holdings are a diversified Vanguard to minimize foreign currency exposure) currencies other than the U.S. dollar (but hedged by investment-grade foreign bonds issued in government, agency, corporate, and securitized mortgage-backed and asset-backed securities; and obligations issued by the U.S. Treasury; U.S. corporate bonds; inflation-protected public mix of short-, intermediate-, and long-term U.S The trust's indirect bond holdings are a diversified

Benchmark

Target Retirement 2045 Composite Ix

Growth of a \$10,000 investment: January 31, 2013—December 31, 2022



Total returns

Fund

Periods ended [
eriods ended December 31, 2022

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	8.90%	-17.33%	-17.33%	3.79%	5.20%	8.41%
Benchmark	8.88%	-16.93%	-16.93%	4.22%	5.53%	8.70%

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returns. Performance figures include the reinvestment of all dividends and any capital gains distributions. All Figures for periods of less than one year are cumulative returns. All other figures represent average annual

Target Retirement 2045 Composite Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for emerging-market stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Bloomberg U.S. Aggregate Float Adjusted Index thereafter; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index Hedged beginning June 3, 2013; and for U.S. stocks, the Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005, the MSCI US Broad Index Through April 22, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Inde Market Index through June 2, 2013, and the CRSP US Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes

Vanguard Target Retirement 2045 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds



i			
	Inst Ttl Intl Stk Idx Trust II	Total Stock Market Index Plus	
	35.7	50.9%	



*Fund holdings are subject to change.

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Plain talk about risk

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Vanguard Target Retirement 2050 Trust II

Balanced fund (stocks and bonds)

Fund facts

1480	02/29/08	0.075%	\$10,557 MM	4 5	3 4	2	_
number	date	as of 03/31/21	assets	→ Hig		$ \uparrow$	Low
Fund	Inception	Expense ratio	Total net	,		evel	Risk leve

Investment objective

consistent with its current asset allocation provide capital appreciation and current income Vanguard Target Retirement 2050 Trust II seeks to

\$22,085

\$21,532

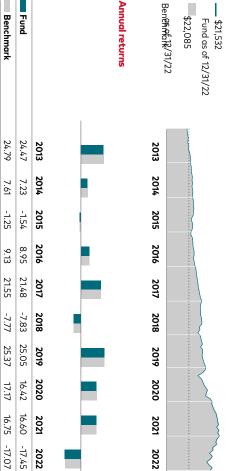
are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, asset allocation should resemble that of the Target to bonds and other fixed income investments will increase. Within seven years after 2050, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Market Index Trust II, Vanguard Total International Vanguard Institutional Total International Stock Retirement Income Trust II. The underlying holdings decrease while the percentage of assets allocated the percentage of assets allocated to stocks will become more conservative over time, meaning that target year). The trust's asset allocation will the workforce in or within a few years of 2050 (the The trust invests in other Vanguard mutual funds and Vanguard Short-Term

small-capitalization stocks government, U.S. agency, and investment-grade mix of U.S. and foreign large-, mid-, and The trust's indirect stock holdings are a diversified Vanguard to minimize foreign currency exposure) currencies other than the U.S. dollar (but hedged by investment-grade foreign bonds issued in government, agency, corporate, and securitized mortgage-backed and asset-backed securities; and obligations issued by the U.S. Treasury; U.S. corporate bonds; inflation-protected public mix of short-, intermediate-, and long-term U.S The trust's indirect bond holdings are a diversified

Benchmark

Target Retirement 2050 Composite lx

Growth of a \$10,000 investment: January 31, 2013—December 31, 2022



Total returns

Fund

59

Ten years	Five years	Three years	One year	Year to date	Quarter
cember 31, 2022	eriods ended Decem	P			

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	9.24%	-17.45%	-17.45%	3.87%	5.25%	8.43%
Benchmark	9.18%	-17.07%	-17.07%	4.30%	5.58%	8.72%

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investment, as you cannot invest directly in an index. <u>vanguard.com/performance</u>. The performance of an index is not an exact representation of any particular

returns. Performance figures include the reinvestment of all dividends and any capital gains distributions. All Figures for periods of less than one year are cumulative returns. All other figures represent average annual

Target Retirement 2050 Composite Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for emerging-market stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Bloomberg U.S. Aggregate Float Adjusted RIC Capped Index Hedged beginning June 3, 2013; and for U.S. stocks, the MSCI US Broad Market Index through June 2, 2013, and the CRSP US Total Market Index thereafter. International stock benchmark returns

Vanguard Target Retirement 2050 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds



i		
	Inst Ttl Intl Stk Idx Trust II	Total Stock Market Index Plus
	37.1	53.3%



*Fund holdings are subject to change.

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Plain talk about risk

funds, the trust also is subject to asset allocation risk, which is the chance that the selection of underlying funds and the allocation of fund assets will cause the trust to underperform other funds with a similar investment objective. Investments in Target Retirement Trusts are subject to the risks of their underlying funds. The year in the trust name refers to the approximate year 2050 when an investor in the trust would retire and leave the workforce. The trust will gradually shift its emphasis from more aggressive investments to more The trust is subject to several stock and bond market risks, any of which could cause an investor to lose money. However, based on the trust's current allocation between stocks and the less volatile asset class of bonds, the trust's overall level of risk should be higher than those funds that invest mostly in bonds, but lower than those investing mostly in stocks. As conservative ones based on its target date. An investment in the Target Retirement Trust is not guaranteed at any time, including on or after the target date. the trust's allocation between underlying funds gradually changes, the trust's overall level of risk also will decline. In addition to the risks inherent in the asset classes of the underlying

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60



Vanguard Target Retirement 2055 Trust II

Balanced fund (stocks and bonds)

Fund facts

1489	08/31/10	0.075%	\$6,700 MM	3 4 5	ω	_	
number	date	as of 03/31/21	assets	→ Hig		Low <	<u> </u>
Fund	Inception	Expense ratio	Total net		<u> </u>	Risk leve	ᇒ

Investment objective

Vanguard Target Retirement 2055 Trust II seeks to provide capital appreciation and current income consistent with its current asset allocation.

nvestment strategy

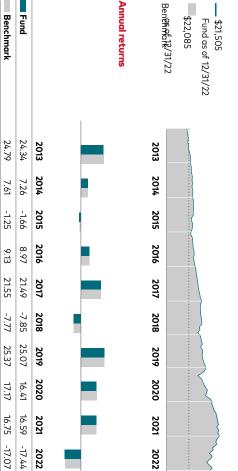
The trust invests in other Vanguard mutual funds and trusts according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2055 (the target year). The trust's asset allocation will become more conservative over time, meaning that the percentage of assets allocated to stocks will decrease while the percentage of assets allocated to bonds and other fixed income investments will increase. Within seven years after 2055, the trust's asset allocation should resemble that of the Target Retirement Income Trust II. The underlying holdings are: Vanguard Total Stock Market Index Fund, Vanguard Institutional Total International Stock Market Index Fund, and Vanguard Total International Stock Market Index Fund, and Vanguard Total Index Fund.

The trust's indirect bond holdings are a diversified mix of short-, intermediate-, and long-term U.S. government, U.S. agency, and investment-grade U.S. corporate bonds; inflation-protected public obligations issued by the U.S. Treasury; mortgage-backed and asset-backed securitize; and government, agency, corporate, and securitized investment-grade foreign bonds issued in currencies other than the U.S. dollar (but hedged by Vanguard to minimize foreign currency exposure). The trust's indirect stock holdings are a diversified mix of U.S. and foreign large-, mid-, and small-capitalization stocks.

Benchmark

Target Retirement 2055 Composite lx

Growth of a \$10,000 investment: January 31, 2013—December 31, 2022



Total returns

9.25%	Quarter	
-17.44%	Year to date	
-17.44%	One year	
3.87%	Three years	
5.25%	Five years	
8.41%	Ten years	

Periods ended December 31, 2022

61

Fund The performance data shown represent past performance, which is not a guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the performance data cited. Benchmark -17.07% -17.07% 4.30%

Figures for periods of less than one year are cumulative returns. All other figures represent average annual investment, as you cannot invest directly in an index. <u>vanguard.com/performance</u>. The performance of an index is not an exact representation of any particular

For performance data current to the most recent month-end, visit our website at

returns. Performance figures include the reinvestment of all dividends and any capital gains distributions. All

Target Retirement 2055 Composite Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for emerging-market stocks, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Float Adjusted Index; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index Hedged beginning June 3, 2013; and for U.S. stocks, the MSCI US Broad Market Index through June 2, 2013, and the CRSP US Total Market Index thereafter. International

Vanguard Target Retirement 2055 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds



Ţ		
*Fund holdings are subject to change.	Inst Ttl Intl Stk Idx Trust II	Total Stock Market Index Plus
•	37.1	53.4%



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Plain talk about risk

funds, the trust also is subject to asset allocation risk, which is the chance that the selection of underlying funds and the allocation of fund assets will cause the trust to underperform other funds with a similar investment objective. Investments in Target Retirement Trusts are subject to the risks of their underlying funds. The year in the trust name refers to the approximate year 2055 when an investor in the trust would retire and leave the workforce. The trust will gradually shift its emphasis from more aggressive investments to more The trust is subject to several stock and bond market risks, any of which could cause an investor to lose money. However, based on the trust's current allocation between stocks and the less volatile asset class of bonds, the trust's overall level of risk should be higher than those funds that invest mostly in bonds, but lower than those investing mostly in stocks. As conservative ones based on its target date. An investment in the Target Retirement Trust is not guaranteed at any time, including on or after the target date. the trust's allocation between underlying funds gradually changes, the trust's overall level of risk also will decline. In addition to the risks inherent in the asset classes of the underlying

Note on frequent trading restrictions

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Vanguard Target Retirement 2060 Trust II

Balanced fund (stocks and bonds)

Fund facts

Low \(\tag{\text{High}} \)	assets \$3,318 MM	as of 03/31/21 0.075%	date 03/01/12
Low < High	assets	as of 03/31/21	date
1 2 3 4 5	\$3,318 MM	0.075%	03/01/12

Investment objective

consistent with its current asset allocation provide capital appreciation and current income Vanguard Target Retirement 2060 Trust II seeks to

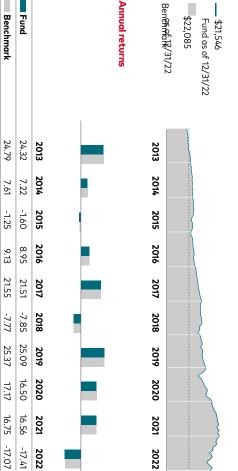
Vanguard are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, to bonds and other fixed income investments will increase. Within seven years after 2060, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Market Index Trust II, Vanguard Total International Vanguard Institutional Total International Stock Retirement Income Trust II. The underlying holdings asset allocation should resemble that of the Target decrease while the percentage of assets allocated the percentage of assets allocated to stocks will become more conservative over time, meaning that target year). The trust's asset allocation will the workforce in or within a few years of 2060 (the The trust invests in other Vanguard mutual funds and Vanguard Short-Term

government, U.S. agency, and investment-grade small-capitalization stocks mix of U.S. and foreign large-, mid-, and The trust's indirect stock holdings are a diversified Vanguard to minimize foreign currency exposure) currencies other than the U.S. dollar (but hedged by investment-grade foreign bonds issued in government, agency, corporate, and securitized mortgage-backed and asset-backed securities; and obligations issued by the U.S. Treasury; U.S. corporate bonds; inflation-protected public mix of short-, intermediate-, and long-term U.S The trust's indirect bond holdings are a diversified

Benchmark

Target Retirement 2060 Composite lx

Growth of a \$10,000 investment: January 31, 2013—December 31, 2022



Total returns

Fund

Periods ended December 31, 2022

63

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	9.25%	-17.41%	-17.41%	3.90%	5.27%	8.42%
Benchmark	9.18%	-17.07%	-17.07%	4.30%	5.58%	8.72%

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returns. Performance figures include the reinvestment of all dividends and any capital gains distributions. All Figures for periods of less than one year are cumulative returns. All other figures represent average annual

Target Retirement 2060 Composite Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for emerging-market stocks, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Float Adjusted Index; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index Hedged beginning June 3, 2013; and for U.S. stocks, the MSCI US Broad Market Index through June 2, 2013, and the CRSP US Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes.

Vanguard Target Retirement 2060 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds



Inst Ttl Intl Stk Idx Trust II	Total Stock Market Index F
	Plus !
36.9	53.6%



*Fund holdings are subject to change.

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Plain talk about risk

funds, the trust also is subject to asset allocation risk, which is the chance that the selection of underlying funds and the allocation of fund assets will cause the trust to underperform other funds with a similar investment objective. Investments in Target Retirement Trusts are subject to the risks of their underlying funds. The year in the trust name refers to the approximate year 2060 when an investor in the trust would retire and leave the workforce. The trust will gradually shift its emphasis from more aggressive investments to more The trust is subject to several stock and bond market risks, any of which could cause an investor to lose money. However, based on the trust's current allocation between stocks and the less volatile asset class of bonds, the trust's overall level of risk should be higher than those funds that invest mostly in bonds, but lower than those investing mostly in stocks. As conservative ones based on its target date. An investment in the Target Retirement Trust is not guaranteed at any time, including on or after the target date. the trust's allocation between underlying funds gradually changes, the trust's overall level of risk also will decline. In addition to the risks inherent in the asset classes of the underlying

Note on frequent trading restrictions

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Vanguard Target Retirement 2065 Trust II

Balanced fund (stocks and bonds)

Fund facts

level	Expense ratio as of 03/31/21	Inception
High	as of 03/31/21	date
Л	0 0 1 1 2	

Investment objective

consistent with its current asset allocation provide capital appreciation and current income Vanguard Target Retirement 2065 Trust II seeks to

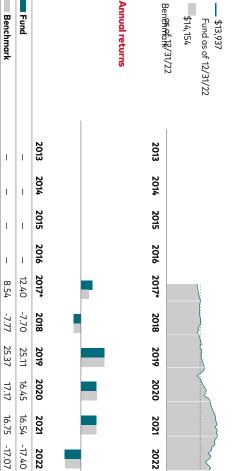
Vanguard are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, to bonds and other fixed income investments will increase. Within seven years after 2065, the trust's become more conservative over time, meaning that the percentage of assets allocated to stocks will and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Market Index Trust II, Vanguard Total International Vanguard Institutional Total International Stock Retirement Income Trust II. The underlying holdings asset allocation should resemble that of the Target increase. Within seven years after 2065, decrease while the percentage of assets allocated target year). The trust's asset allocation will the workforce in or within a few years of 2065 (the The trust invests in other Vanguard mutual funds and Vanguard Short-Term

small-capitalization stocks government, U.S. agency, and investment-grade U.S. corporate bonds; inflation-protected public mix of U.S. and foreign large-, mid-, and The trust's indirect stock holdings are a diversified Vanguard to minimize foreign currency exposure) currencies other than the U.S. dollar (but hedged by investment-grade foreign bonds issued in government, agency, corporate, and securitized mortgage-backed and asset-backed securities; and obligations issued by the U.S. Treasury; mix of short-, intermediate-, and long-term U.S The trust's indirect bond holdings are a diversified

Benchmark

Target Retirement 2065 Composite Ix

Growth of a \$10,000 investment : July 31, 2017—December 31, 2022



Total returns

	רפווסמט פוומפט ספכפוווספו טו, בסבב	Doriodo andod Doros
	11061 31, 2022	MAC 21 2022

65

	Quarter	Year to date	One year	Three years	Five years	Since inception
Fund	9.23%	-17.40%	-17.40%	3.88%	5.30%	7.11%
Benchmark	9.18%	-17.07%	-17.07%	4.30%	5.58%	ı

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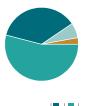
investment, as you cannot invest directly in an index. <u>vanguard.com/performance</u>. The performance of an index is not an exact representation of any particular

returns. Performance figures include the reinvestment of all dividends and any capital gains distributions. All Figures for periods of less than one year are cumulative returns. All other figures represent average annual

Vanguard Target Retirement 2065 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds







54.1%

36.4

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Plain talk about risk

funds, the trust also is subject to asset allocation risk, which is the chance that the selection of underlying funds and the allocation of fund assets will cause the trust to underperform other funds with a similar investment objective. Investments in Target Retirement Trusts are subject to the risks of their underlying funds. The year in the trust name refers to the approximate year 2065 when an investor in the trust would retire and leave the workforce. The trust will gradually shift its emphasis from more aggressive investments to more The trust is subject to several stock and bond market risks, any of which could cause an investor to lose money. However, based on the trust's current allocation between stocks and the less volatile asset class of bonds, the trust's overall level of risk should be higher than those funds that invest mostly in bonds, but lower than those investing mostly in stocks. As conservative ones based on its target date. An investment in the Target Retirement Trust is not guaranteed at any time, including on or after the target date. the trust's allocation between underlying funds gradually changes, the trust's overall level of risk also will decline. In addition to the risks inherent in the asset classes of the underlying

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Vanguard Target Retirement 2070 Trust II

Balanced fund (stocks and bonds)

Fund facts

1 2 3 4	Risk level
ъ	High
\$16 MM	Total net assets
0.075%	Expense ratio as of 04/07/22
04/07/22	Inception date
V006	Fund number

Investment objective

Vanguard Target Retirement 2070 Trust II seeks to provide capital appreciation and current income consistent with its current asset allocation.

nvestment strategy

The trust invests in other Vanguard mutual funds and trusts according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2070 (the target year). The trust's asset allocation will become more conservative over time, meaning that the percentage of assets allocated to stocks will decrease while the percentage of assets allocated to bonds and other fixed income investments will increase. Within seven years after 2070, the trust's asset allocation should resemble that of the Target Retirement Income Trust II. The underlying holdings are: Vanguard Total Stock Market Index Fund, Vanguard Institutional Total Index Fund, Vanguard Institutional Total International Stock Market Index Fund, and Vanguard Total International Stock Market Index Fund, and Vanguard Total International Bond II Index Fund, and Vanguard Short-Term Inflation-Protected Securities Fund.

The trust's indirect bond holdings are a diversified mix of short-, intermediate-, and long-term U.S. government, U.S. agency, and investment-grade U.S. crporate bonds; inflation-protected public obligations issued by the U.S. Treasury; mortgage-backed and asset-backed securities; and government, agency, corporate, and securitized investment-grade foreign bonds issued in currencies other than the U.S. dollar (but hedged by Vanguard to minimize foreign currency exposure). The trust's indirect stock holdings are a diversified mix of U.S. and foreign large-, mid-, and small-capitalization stocks.

Benchmark

Target Retirement 2070 Composite Index

Total returns

			refloas effaea December 31, 2022
	Quarter	Year to date	Since inception
Fund	9.30%	-11.25%	-11.25%
Benchmark	9.18%	-17.07%	I

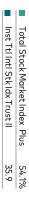
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returns. Performance figures include the reinvestment of all dividends and any capital gains distributions. All Figures for periods of less than one year are cumulative returns. All other figures represent average annual returns are net of expenses.

Allocation of underlying funds







7.0 3.0

67

68

Vanguard Target Retirement 2070 Trust II

Balanced fund (stocks and bonds)

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Plain talk about risk

other funds with a similar investment objective. Investments in Target Retirement Trusts are subject to the risks of their underlying funds. The year in the trust name refers to the approximate year 2070 when an investor in the trust would retire and leave the workforce. The trust will gradually shift its emphasis from more aggressive investments to more conservative ones based on its target date. An investment in the Target Retirement 2070 Trust II is not guaranteed at any time, including on or after the target date. funds, the trust also is subject to asset allocation risk, which is the chance that the selection of underlying funds and the allocation of fund assets will cause the trust to underperform the trust's allocation between underlying funds gradually changes, the trust's overall level of risk also will decline. In addition to the risks inherent in the asset classes of the underlying The trust is subject to several stock and bond market risks, any of which could cause an investor to lose money. However, based on the trust's current allocation between stocks and the less volatile asset class of bonds, the trust's overall level of risk should be higher than those funds that invest mostly in bonds, but lower than those investing mostly in stocks. As

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Vanguard Target Retirement Income Trust II

Balanced fund (stocks and bonds)

Fund facts

	02/29/08	0.075%	\$4,186 MM	4 5	1 2
_	date	as of 03/31/21	assets	→ High	Low
	Inception	Expense ratio	Total net	•	Risk level

Investment objective

Vanguard Target Retirement Income Trust II seeks to provide current income and some capital appreciation.

Investment strategy

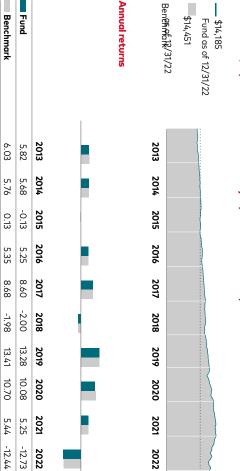
The trust invests in other Vanguard mutual funds and trusts according to an asset allocation strategy designed for investors currently in retirement. The underlying holdings are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, Vanguard Institutional Total International Stock Market Index Trust II, Vanguard Total International Bond II Index Fund, and Vanguard Short-Term Inflation-Protected Securities Fund.

The trust's indirect bond holdings are a diversified mix of short-, intermediate-, and long-term U.S. government, U.S. agency, and investment-grade U.S. corporate bonds; inflation-protected public obligations issued by the U.S. Treasury; mortgage-backed and asset-backed securitized government, agency, corporate, and securitized investment-grade foreign bonds issued in currencies other than the U.S. dollar (but hedged by Vanguard to minimize foreign currency exposure). The trust's indirect stock holdings are a diversified mix of U.S. and foreign large-, mid-, and sendl-controlization stocks.

Benchmark

Target Retirement Income Compos. Ix

Growth of a \$10,000 investment: January 31, 2013—December 31, 2022



Total returns

Periods ender
Periods ended December 31, 2022

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	3.78%	-12.73%	-12.73%	0.37%	2.34%	3.66%
Benchmark	3.95%	-12.44%	-12.44%	0.73%	2.59%	3.86%

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returns. Performance figures include the reinvestment of all dividends and any capital gains distributions. All Figures for periods of less than one year are cumulative returns. All other figures represent average annual

Bloomberg U.S. Aggregate Float Adjusted Index thereafter, as well as the Bloomberg U.S. Treasury Inflation-Protected Securities Index through June 2, 2013, and the Bloomberg U.S. Treasury Inflation-Protected Securities (TIPS) 0–5 Year Index thereafter; for short-term reserves, the Citigroup Three-Month Treasury Bill Index through June 2, 2013; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index Hedged beginning June 3, 2013; and for U.S. stocks, the Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005, the MSCI US Broad Market Index through June 2, 2013, and the CRSP US Total Target Retirement Income Compos. Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for emerging-market stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes

Vanguard Target Retirement Income Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds[†]



STerm Inf Pro Sec Idx Fund	Total Stock Market Index Plus	Total Bond Market II Index
17.0	17.5	37.2%



70

*Fund holdings are subject to change.

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Plain talk about risk

The trust is subject to several stock and bond market risks, any of which could cause an investor to lose money. However, based on the trust's current allocation between stocks and the less volatile asset class of bonds, the trust's overall level of risk should be higher than those funds that invest mostly in bonds, but lower than those investing mostly in stocks. In addition to the risks inherent in the asset classes of the underlying funds, the trust also is subject to asset allocation risk, which is the chance that the selection of underlying funds and the allocation of fund assets will cause the fund to underperform other funds with a similar investment objective.

Note on frequent trading restrictions

Participant Services at 800-523-1188 for additional information. Frequent trading policies may apply to those funds offered as investment options within your plan. Please log on to vanguard.com for your employer plans or contact

This investment is not a mutual fund. It is a collective trust available only to tax-qualified plans and their eligible participants.

This collective trust is managed by Vanguard Fiduciary Trust Company, a wholly owned subsidiary of The Vanguard Group, Inc., and is not a mutual fund. Investment objectives, risks, charges, expenses, and other important information should be considered carefully before investing.

For more information about Vanguard investments, see below for which situation is right for you.

please call **855-402-2646** If you receive your retirement plan statement from a service provider other than Vanguard or log on to a recordkeeper's website that is not Vanguard to view your plan, lf you receive your retirement plan statement from Vanguard or log on to Vanguard's website to view your plan, visit vanguard.com or call 800-523-1188

0

Index I (USD) Vanguard Total Bond Market Morningstar Analyst Rating Overall Morningstar Rating Standard Index *** Bloomberg US Bloomberg US 93 06-30-2022 97 95 98 405 US Fund Intermediate Core Bond æ 97 98 97 Bloomberg US Agg Bond TR USD 97 Bloomberg US Agg Bond TR USD Category Index Investment Style Fixed-Income Bond % Morningstar Cat US Fund Intermediate Core Bond

99

99

:: :: 82, 100,

2011		7/2	710	5	120	NO. III Car
		275	377	405	7 5 2	No in Cat
		36	32	41	40	% Rank Cat
		-0.04	-0.01	-0.02	-0.14	+/- Cat Index
		-0.04	-0.01	-0.02	-0.14	+/- Std Index
	4.22	1.02	0.01	-2.73	-13.15	Total Return
	4.22	1.02	0.01		-13.15	Std 12-31-2022
	4.22	1.02	0.01	-2.73	-13.15	Load-adj Mthly
	Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
	-13.15	1.67	-4.65	-4.71	-5.98	2022
	-1.65	-0.08	0.11	2.00	-3.61	2021
	7.74	0.67	0.62	2.98	3.28	2020
98	Total %	4th Otr	3rd Otr	2nd Otr	1st Otr	Quarterly Returns
					2-31-2022	Performance 12-31-2022

30-day SEC Yield 01-30-23 7-day Yield Subsidized 4.00 Unsubsidized 4.13

Performance Disclosure
The Overall Morningstar Rating is based on risk-adjusted returns,
derived from a weighted average of the three-, five-, and 10-year does not guarantee future results. The investment return and 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 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 888-809-8102 or visit www.vanguard.com. Fees and Expenses

Sales charges Front-End Load % Deferred Load %	N N
Fund Expenses	
Management Fees %	0.03
12b1 Expense %	NA
Net Expense Ratio %	0.04
Gross Expense Ratio %	0.04
Dializand Datum Duafila	

Gross Expense Ratio %			9
Risk and Return Profile			
	3 Yr 405 funds	5 Yr 379 funds	10 Yr 275 funds
Morningstar Rating™	3 ★	4★	3 ★
Morningstar Risk	Avg	Avg	Avg
Morningstar Return	Avg	+Avg	Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	5.89	5.13	4.19
Mean	-2.73	0.01	1.02
Sharpe Ratio	-0.58	-0.24	0.07
MPT Statistics	Standard Index		Best Fit Index Bloomberg US Agg Bond TR USD
Alpha	0.	0.00	0.00
Beta		1.01	1.01
R-Squared	99.66	.66	99.66
12-Month Yield			2.53%
Potential Cap Gains Exp			2.82%

No. of Funds in Cat	453	423	415	430	1019	986	985	1042	1038	1079	1165	1195
% Rank Cat	40	50	45	జ	30	55	62	28	30	67	8	⇉
+/- Category Index	-0.14	-0.11	0.23	0.01	-0.02	0.03	-0.04	-0.14	-0.06	-0.11	-0.03	-0.12
+/- Standard Index	-0.14	-0.11	0.23	0.01	-0.02	0.03	-0.04	-0.14	-0.06	-0.11	-0.03	-0.12
Total Return %	-13.15	-1.65	7.74	8.73	-0.01	3.57	2.61	0.41	5.90	-2.14	4.18	7.72
NAV/Price	9.48	11.19	11.62	11.05	10.45	10.75	10.65	10.64	10.87	10.56	11.09	11.00
History	12-22	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Performance Quartile (within category)												
	4											
12,484	ĮŲ,											
— Standard Index												
— Category Average 12:374	20k								:			
12,416												
Vanguard Total Bond Market Index I	40k											
Growth of \$10,000	90k											
	2											

AAA	Credit Luality Breakdown 12-31-2022		мод	beM ri	Ltd Mod Ext	Fixed-Income Style		llsm2	biM	əfi	гр	Value Blend Growth	Fauity Style	Total	Other/Not Clsfd	Bonds	Non-US Stocks	US Stocks	Cash	Asset Allocation %	Portfolio Analysis 12-31-2022
	kdown 12-31-2022			Avg Wtd Coupon Avg Wtd Price	Avg Eff Duration	Ava Eff Maturity		\$mil	F/B Ratio I IIVI	P/C Ratio I IM	P/E Ratio TTM	i ottiono otansuca	Portfolio Statistics	100.00	0.03	98.62	0.00	0.00	1.34	Net %	is 12-31-2022
	_									1		Avg Index	Port Rel	100.15	0.03	98.77	0.00	0.00	1.34	Long % S	
3 .9	Bond %			2.79 89.94	6.47	8 90		ı		I	١	Cat	R	0.15	0.00	0.15	0.00	0.00	0.00	Short %	
Cons	Basic	Դ Cyclical	Sector Weightings	①		_	_	_	_	⊕ 	_	① 		•		①	_	11-2022	since	Share Chg	
Consumer Cyclical	Basic Materials	cal	ightings).258 mil	,093 mil	,326 mil	,230 mil	,278 mil	,463 mil	,478 mil	,304 mil	1,399 mil	,000	STA mil	,536 mil	1,470 mil	,932 mil		Amount	Share	
lical	S			United States Treasury Notes 1.5% United States Treasury Notes 3%	United States Treasury Notes 4.125%	United States Treasury Notes 1.625%	United States Treasury Notes 1.5%	United States Treasury Notes 2.875%	United States Treasury Notes 1.25%	United States Treasury Notes 1.875%	United States Treasury Notes 2%	United States Treasury Notes 2.75%	Office office fields of your	United States Treasury Notes 1.375%	United States Treasury Notes 1.25%	United States Treasury Notes 2%	United States Treasury Notes 0.75%	Ul-:I Ct-t T	O Total Stocks , 14,388 Total Fixed-Income,	Holdings:	
	1	I	Stocks %	/ Notes 1.5% / Notes 3%	/ Notes 4.125%	Notes 1.625%	Notes 1.5%	/ Notes 2.875%	/ Notes 1.25%	/ Notes 1.875%	/ Notes 2%	/ Notes 2.75%	7 140000 0.07 0.70	/ Notes 1.3/5%	/ Notes 1.25%	/ Notes 2%	/ Notes U./5%	0 3 7 0	l Fixed-Income,		
I	1		Rel Std Index	0.38	0.40	0.40	0.41	0.42	0.42	0.45	0.45	0.45	ć	0.47	0.47	0.49	0.62		%	Net Assets	

Bond % 70.98	Sector Weightings • Cyclical • Basic Materials • Consumer Cyclical	Stocks %
2.94 11.97	Consumer Cyclical Financial Services	1 1
14 14	★ Real Estate	I
0.00	✓ Sensitive	Ι
0.00	Communication Services	I
0.00	★ Energy	1
-0.03	Industrials	1
Rai Std Index	Technology	1
- 3	→ Defensive	1
	Consumer Defensive	1
I	Healthcare	1
	Utilities	I
	Purchase Constraints:	 09-18-1995
048	Type: Total Assets:	09-18-1995 MF \$88,063.28 mil

Greater Europe Greater Asia

Americas

Regional Exposure

Stocks %

Below B

888

8

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Objective: Manager: Family:

Income 9.9 Years Joshua Barrickman Vanguard

Ticker:

VBTIX OSD

Minimum Initial Purchase:

\$5 mil

US92193750

Base Currency:

Tenure:

on the financial strength and claims-paying ability of VRIAC, which is solely an obligation of VRIAC's general responsible for all obligations under its commitments. All guarantees are based Company's insurance and annuity account which supports all of the Company ("VRIAC" or the "Company"). The Voya Fixed Account – 457/401 II is Retirement Insurance and Annuity other type of contract issued by Voya available through a group annuity or The Voya Fixed Account – 457/401 II is

Asset Class: Stability of Principal

Important Information

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

Annuity Company Voya Retirement Insurance and

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

guaranteed minimum rates. Daily guarantees minimum rates of interest **Objective**Stability of principal is the primary method of interest rate crediting. credited rate. This is known as a portfolio Account – 457/401 II receive the same invested by your plan in the Voya Fixed through compound interest. All amounts principal and the investment increases credited interest becomes part of and may credit interest that exceeds the Voya Fixed Account – 457/401 II objective of this investment option. The

service providers. These restrictions help VRIAC to provide stable credited interest Key Features
The Voya Fixed Account – 457/401 II is the general market's volatility in new significantly from month to month despite rates which historically have not varied or if you have a choice between multiple Options (as defined below) are offered 457/401 II if Competing Investment involving the Voya Fixed Account – restrictions on transfers and withdrawals mind. Therefore, VRIAC may impose invested by VRIAC with this goal in for participants seeking stability of principal. The assets supporting it are intended to be a long-term investment

Voya Fixed Account – 457/401 II Restrictions on Transfers from the

wash restrictions shown below. 457/401 II will be subject to the equity Transfers from the Voya Fixed Account –

Transfers Equity Wash Restrictions on

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

- (a) be made to a Competing Investment Option; Fixed Account – 457/401 II cannot Direct transfers from the Voya
- 9 days; investment options under the contract cannot be made if a Option has taken place within 90 transfer to a Competing Investment Account - 457/401 II to other A transfer from the Voya Fixed
- <u>O</u> A transfer from the Voya Fixed Account – 457/401 II to other taken place within 90 days; and Competing Investment Option has benefit withdrawal from a noncontract cannot be made if a noninvestment options under the
- <u>a</u> place within 90 days. if a transfer from the Voya Fixed Account – 457/401 II has taken A transfer from a non-Competing Investment Option to a Competing Investment Option cannot be made

Competing Investment Option As used throughout this document,

as any investment option that: Competing Investment Option is defined

- (a) Provides a direct or indirect
- 9 investment performance guarantee; Is, or may be, invested primarily in preferred stock; assets other than common or
- <u>(C</u> preferred stock; assets other than common or contracts) which are invested in funds, trusts or insurance company financial vehicles (such as mutual ls, or may be, invested primarily in
- <u>a</u> plan additional investment under the (as defined in the contract) as an available by the Contract Holder by the Company and made with a brokerage firm designated Is available through an account
- (e) arrangement; Is a self-directed brokerage
- \ni as reasonably determined characteristics to the above Is any fund with similar by the Company;or

(9) Is any fund with a targeted duration of less than three years (e.g. money market

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

Requests for Full Withdrawals

ways, as elected by the plan: pay amounts in the Voya Fixed Account participant accounts held in the Voya Fixed Account – 457/401 II, VRIAC will Holder, requests a full withdrawal of all However, if the plan, as the Contract benefits to participants at any time. Withdrawals from the Voya Fixed Account – 457/401 II are allowed to pay 457/401 II in one of the following two

- (a) exceed 60 months; or with interest, over a period not to In equal annual principal payments,
- 9 provisions of option (a) above. time would be subject to the withdrawal requests at any other then occur no later than the next applicable anniversary date. Full of all amounts held within the Voya applicable anniversary date. Payout least 12 months prior to the made in writing by the plan and Request for this option must be anniversary date"), as a lump sum effective date (the "applicable period measured from the plan At the completion of each 5-year Fixed Account – 457/401 II would received by us in our home office at

72

Interest Rate Structure

guarantees principal and a guaranteed minimum interest rate ("GMIR") for the life of the contract, as well as featuring credited rate account daily yields the then current into account, the interest credited to your yields. Taking the effect of compounding GMIR are expressed as annual effective guaranteed minimum floor rate and the contract. The current rate, the GMIR that applies for the life of the period, but it will never be lower than the floor rate may change after a defined calendar year. The guaranteed minimum for a defined period – currently one guaranteed minimum floor rate declared rate, determined at least monthly, and a two declared interest rates: a current The Voya Fixed Account – 457/401 II

interest rates reflects a number of VRIAC's determination of credited



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

period. month period measured from the first day of the month in which such change was effective. The current rate for a apply a decrease to the current rate following a rate change initiated solely by effect for less than a full three-month Fixed Account — 457/401 II may be in plan's initial investment in the Voya us prior to the last day of the threeat any time, except that VRIAC will not minimum floor rate and may be changed to be credited under a contract may be higher than the GMIR/guaranteed rate equals the GMIR. The current rate Currently, the guaranteed minimum floor

earn interest at a rate no less than 3.10% through December 31, 2021, and 3.00% through December 31, 2024. Credited Interest Rate
The Voya Fixed Account – 457/401 II will

GMIR for the life of the contract is The Voya Fixed Account – 457/401 II's

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, dealers with which it has a selling agreement. All products or services may Plan administrative services provided by VRIAC or Voya Institutional Plan Services, LLC ("VIPS"). Neither VRIAC nor VIPS engage in the sale or not be available in all states. LLC (member SIPC) or other brokerresponsible for meeting its obligations. Retirement Insurance and Annuity Company ("VRIAC"). VRIAC is solely funding agreements that you may have purchased are issued by Voya Any insurance products, annuities and



on the financial strength and claims-paying ability of VRIAC, which is solely responsible for all obligations under its Company's insurance and annuity commitments. All guarantees are based account which supports all of the an obligation of VRIAC's general Company ("VRIAC" or the "Company"). The Voya Fixed Account – 457/401 II is Retirement Insurance and Annuity other type of contract issued by Voya available through a group annuity or The Voya Fixed Account – 457/401 II is

Asset Class: Stability of Principal

Important Information

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

Annuity Company Voya Retirement Insurance and

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

guarantees minimum rates of interest Objective
Stability of principal is the primary method of interest rate crediting. credited rate. This is known as a portfolio Account – 457/401 II receive the same invested by your plan in the Voya Fixed through compound interest. All amounts principal and the investment increases credited interest becomes part of guaranteed minimum rates. Daily and may credit interest that exceeds the Voya Fixed Account – 457/401 II objective of this investment option. The

service providers. These restrictions help VRIAC to provide stable credited interest rates which historically have not varied Key Features
The Voya Fixed Account – 457/401 II is the general market's volatility in new significantly from month to month despite or if you have a choice between multiple Options (as defined below) are offered 457/401 II if Competing Investment restrictions on transfers and withdrawals involving the Voya Fixed Account – invested by VRIAC with this goal in mind. Therefore, VRIAC may impose for participants seeking stability of principal. The assets supporting it are intended to be a long-term investment

Restrictions on Transfers from the Voya Fixed Account – 457/401 II

wash restrictions shown below 457/401 II will be subject to the equity Transfers from the Voya Fixed Account –

Transfers Equity Wash Restrictions on

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

- (a) be made to a Competing Investment Option; Fixed Account – 457/401 II cannot Direct transfers from the Voya
- 9 A transfer from the Voya Fixed Account – 457/401 II to other Option has taken place within 90 transfer to a Competing Investment investment options under the contract cannot be made if a
- <u>0</u> taken place within 90 days; and Competing Investment Option has benefit withdrawal from a noncontract cannot be made if a noninvestment options under the A transfer from the Voya Fixed Account – 457/401 II to other
- <u>a</u> place within 90 days if a transfer from the Voya Fixed Account – 457/401 II has taken A transfer from a non-Competing Investment Option to a Competing investment Option cannot be made

Competing Investment Option

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- (a) Provides a direct or indirect
- 9 investment performance guarantee; Is, or may be, invested primarily in preferred stock; assets other than common or
- <u>ල</u> preferred stock; assets other than common or contracts) which are invested in funds, trusts or insurance company financial vehicles (such as mutual ls, or may be, invested primarily in
- <u>a</u> by the Company and made available by the Contract Holder additional investment under the (as defined in the contract) as an with a brokerage firm designated Is available through an account
- **e** Is a self-directed brokerage arrangement;
- 3 by the Company; or as reasonably determined characteristics to the above Is any fund with similar

<u>@</u> Is any fund with a targeted duration of less than three years (e.g. money market

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

Requests for Full Withdrawals

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- (a) exceed 60 months; or with interest, over a period not to In equal annual principal payments,
- ☺ time would be subject to the withdrawal requests at any other then occur no later than the next applicable anniversary date. Full of all amounts held within the Voya applicable anniversary date. Payout least 12 months prior to the made in writing by the plan and anniversary date"), as a lump sum effective date (the "applicable period measured from the plan At the completion of each 5-year provisions of option (a) above. Fixed Account – 457/401 II would received by us in our home office at Request for this option must be

74

Interest Rate Structure

guarantees principal and a guaranteed minimum interest rate ("GMIR") for the credited rate. account daily yields the then current GMIR are expressed as annual effective guaranteed minimum floor rate and the contract. The current rate, the GMIR that applies for the life of the period, but it will never be lower than the floor rate may change after a defined calendar year. The guaranteed minimum for a defined period – currently one guaranteed minimum floor rate declared rate, determined at least monthly, and a two declared interest rates: a current life of the contract, as well as featuring into account, the interest credited to your yields. Taking the effect of compounding The Voya Fixed Account -457/401 II

interest rates reflects a number of VRIAC's determination of credited



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

period. month period measured from the first day of the month in which such change was effective. The current rate for a apply a decrease to the current rate following a rate change initiated solely by minimum floor rate and may be changed at any time, except that VRIAC will not effect for less than a full three-month Fixed Account – 457/401 II may be in plan's initial investment in the Voya us prior to the last day of the threeto be credited under a contract may be higher than the GMIR/guaranteed rate equals the GMIR. The current rate Currently, the guaranteed minimum floor

Credited Interest Rate
The Voya Fixed Account – 457/401 II will earn interest at a rate no less than 2.25% through December 31, 2024.

75

GMIR for the life of the contract is The Voya Fixed Account – 457/401 II's

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



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"):

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 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 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	7-day Yield Insubsidized <i>as of date</i>	1Yr	5Yr	10Yr	Since Inception	Inception Date	Inception Wax Front Max Back Date Load % Load %	Nax Back Load %	Net Exp Ratio %	Gross Exp Max Ratio % Redemption %	Max mption %
American Funds Europacific Growth R6	I		-22.72	1.54	5.30	7.25 09	7.25 05-01-2009	NA	NA	0.46	0.46	NA
MFS Value R4			-5.90	7.53	11.18	8.44 04	8.44 04-01-2005	N	NA	0.551	0.56	N
Sterling Capital Total Return Bond R6		1	-13.15			0.71 02	0.71 02-01-2018	N	NA	0.35^{2}	0.46	N
T. Rowe Price Growth Stock I			-40.05	5.10		8.34 08	8.34 08-28-2015	N	NA	0.51	0.51	N
Vanguard Extended Market Index InstIPlus	1		-26.45	4.90	9.65	8.93 01-14-201	1-14-2011	NA	NA	0.04	0.04	NA
Vanguard Institutional Index Instl PI	1	ı	-18.13	9.41	12.55	7.82 07	7.82 07-07-1997	N	NA	0.02	0.02	NA
Vanguard Mid-Cap Growth Index Admiral	1		-28.84	7.81	10.90	11.37 09-27-201	9-27-2011	NA	NA	0.07	0.07	NA

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Annualized returns 12-31-2022										
Standardized Returns (%)	7-day Yield 7-day Yield Subsidized Unsubsidized as of date as of date	1Yr	5Yr	10Yr	Since Inception I Inception Date	Inception Max Front Max Back Date Load % Load %	Max Back Load %	Net Exp Ratio %	Gross Exp Ratio % Redemption %	Max option %
Vanguard Mid-Cap Value Index Admiral Vanguard Total Bond Market Index I		-7.90 -13.15	6.39 0.01	10.98 1.02	12.03 09-27-2011 4.22 09-18-1995	N N	N N	0.07	0.07 0.04	8
Bloomberg US Agg Bond TR USD Bloomberg US Universal TR USD Morningstar Gbl xUS Growth TME NR USD		-13.01 -12.99 -21.72	0.02 0.18	1.06 1.33	— 01-03-1980 — 12-31-1998 — 11-24-2021					
Morningstar US Core Bd TR USD Morningstar US LM Brd Growth TR USD		-12.99 -31.71	1 1	1 1	05-01-2019 12-21-2020					
Morningstar US LM Brd Val TR USD Morningstar US Mid Brd Grt TR USD		-6.93 -25.83			— 12-21-2020 — 12-21-2020					
Morningstar US Mid Brd Val TR USD Morningstar US Sml Brd Grt Ext TR USD		-6.57 -26.74	1.1	1.1	— 12-21-2020 — 12-21-2020					
MSCI ACWI Ex USA Growth NR USD		-23.05	1.49	4.68	— 01-01-2001					
MSCI ACWI EX USA NR USD MSCI EAFE NR USD		-16.00 -14.45	0.88 1.54	3.80 4.67	— 01-01-2001 — 03-31-1986					
Russell 1000 Growth TR USD Russell 1000 TR USD		-29.14 -19.13	10.96 9.13	14.10 12.37	01-01-1987 12-31-1978					
Russell Mid Cap Growth TR USD Russell Mid Cap Value TR USD S&P 500 TR USD USTREAS T-Bill Auction Ave 3 Mon		-26.72 -12.03 -18.11 2.13	7.64 5.72 9.42 1.34	11.41 10.11 12.56 0.82	— 02-01-1995 — 12-31-1985 — 01-30-1970 — 02-28-1941					
			į	0.0	02 20					

Contractual waiver; Expires 12-31-2023
 Contractual waiver; Expires 01-31-2023

Return after Tax (%)	On Distribution					On Distribution	On Distribution and Sales of Shares	S	
	1Yr	5Yr	10Yr	Since Inception	Inception Date	1Yr	5Yr	10Yr	10Yr Since Inception
American Funds Europacific Growth R6	-23.28	0.41	4.33	6.35	05-01-2009	-13.38	1.14	4.10	5.80
MFS Value R4	-7.83	6.15	9.64	7.16	04-01-2005	-2.67	5.47	8.58	6.53
Sterling Capital Total Return Bond R6	-14.14			-0.62	02-01-2018	-7.77	l		0.05
T. Rowe Price Growth Stock I	-40.52	3.64		6.54	08-28-2015	-23.35	4.01		6.49
Vanguard Extended Market Index InstIPlus	-26.66	4.51	9.19	8.50	01-14-2011	-15.52	3.75	7.78	7.26
Vanguard Institutional Index Instl PI	-18.76	8.51	11.73	7.22	07-07-1997	-10.27	7.38	10.29	6.56
Vanguard Mid-Cap Growth Index Admiral	-28.97	7.62	10.66	11.13	09-27-2011	-16.98	6.12	8.97	9.47
Vanguard Mid-Cap Value Index Admiral	-8.41	5.78	10.33	11.35	09-27-2011	-4.35	4.89	8.90	9.88
Vanguard Total Bond Market Index I	-14.01	-1.00	-0.06	2.55	09-18-1995	-7.75	-0.37	0.33	2.61



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.

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's 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 financial institution. 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 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, by Morningstar as a result of missing data. Morningstar may display asset classes, such as convertible bonds and preferred stocks, or cannot be classified Morningstar may compare the asset class breakdown of the fund against its 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

79

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 Momingstar 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 ir redeemed in a specific time period after the fund's purchase (for example, 30, 180, or 365 days).

Mean

Mean is the annualized geometric return for the period shown

Morningstar Analyst Rating™

analysis of the other pillars. The impact of the weighted pillar scores for people, 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 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 receive a 45% weighting in their analysis, while parent receives a 10% in their research. For actively managed strategies, people and process each 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 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

80

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.

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 investment strategies, a Morningstar Analyst Rating of Gold, Silver, or Bronze reflects the Manager Research Group's expectation that an investment product not applicable, primarily peer groups of investment products using alternative expected net alpha relative to Morningstar category peers for passive 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 will be able to deliver a higher alpha net of fees than the lesser of the relevant 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 calculates 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.

Risk Warning

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

81

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 Rating[™]for 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

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

Style Analysis

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

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

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

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

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

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

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

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

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

82

P/B Ratio TTM

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

P/C Ratio TTM

gauge of liquidity and solvency. operations. It shows the ability of a company to generate cash and acts as 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 The Price/Cash Flow Ratio (or P/C Ratio) for a fund is the weighted average of

P/E Ratio TTM

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



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

portfolio and its benchmark. The lower the R-squared value, the lower the 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. 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

83

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

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 guaranteed at any time, including at the fund's target date. 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

84

Benchmark Disclosure

Bloomberg US Agg Bond TR USD

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Bloomberg US Universal TR USD

the 144A Index, the Eurodollar Index, the Emerging Markets Index, the non-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,



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 xUS Growth TME NR USD

The index measures the performance of large and mid-cap stocks representing the faster-growing half of global markets excluding US. This Index does not incorporate Environmental, Social, or Governance (ESG) criteria.

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 LM Brd Growth TR USD

The index provides a comprehensive depiction of the performance and fundamental characteristics of the Large-Mid Cap Growth segment of U.S. equity markets. It targets stocks representing the faster growing half of the U.S large- and mid-cap market. This Index does not incorporate Environmental, Social, or Governance (ESG) criteria.

Morningstar US LM Brd Val TR USD

The index provides a comprehensive depiction of the performance and fundamental characteristics of the Large-Mid Cap Value segment of U.S. equity markets. It targets stocks representing the cheaper half of the U.S. large- and mid-cap market. 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 Mid Brd Val TR USD

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

Morningstar US Sml Brd Grt Ext TR USD

The index provides a comprehensive depiction of the performance and fundamental characteristics of the Small Growth segment of U.S. equity markets. It targets stocks representing the faster growing half of the U.S. small-cap market. This Index does not incorporate Environmental, Social, or Governance (ESG) criteria.

MSCI ACWI Ex USA Growth NR USD

The index measures the performance of the growth large and mid cap segments of the particular regions, excluding USA equity securities, including developed and emerging market. It is free float-adjusted market-capitalization weighted. The constituents displayed for this index are from the following proxy: iShares MSCI ACWI ETF.

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 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 Growth TR USD

Tracks the companies within the Russell 1000 with higher price-to-book ratios and higher forecasted growth values. The constituents displayed for this index are from the following proxy: iShares Russell 1000 Growth ETF.

Russell 1000 TR USD

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 1000 Value TR USD

Tracks the companies within the Russell 1000 with lower price-to-book ratios and lower forecasted growth values. The constituents displayed for this index are from the following proxy: iShares Russell 1000 Value ETF.

85

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 Value TR USD

Tracks the companies within the Russell Midcap Index having lower price-to-book ratios and lower forecasted growth values. The constituents displayed for this index are from the following proxy: iShares Russell Mid-Cap Value 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. Performance results illustrated herein do not reflect a deduction of any investment advisory fees charged by Hyas Group or any investment manager but do include the fund's internal expenses. Performance results are annualized for time periods greater than one year and include all cash and cash equivalents, realized and unrealized capital gains and losses, and dividends, interest, and income. The investment results depicted herein represent historical performance. As a result of recent market activity, current performance may vary from the figures shown. Past performance is not a guarantee of future results.

The underlying fund's internal expenses (also known as the expense ratio) generally covers investment management fees, marketing, and distribution fees (also known as 12b-1 fees) and other operating expenses of the fund. The expense ratios being displayed for mutual funds reflect each fund's prospectus "net" expenses as provided by Morningstar. Such "net" expenses are subject to change and may increase at any time.

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Performance data quoted is historical. Past performance does not guarantee future results. Current performance may be higher or lower than the performance quoted. You can obtain performance data current to the most recent month-end for each fund by visiting the fund company website. The investment return and principal value of an investment will fluctuate such that an investor's shares, when redeemed, may be worth more or less than their original cost. Total returns include reinvestment of dividends and capital gains and are net of all fund fees and expenses.

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.

The returns on a portfolio consisting primarily of Environmental, Social and Governance ("ESG") aware investments may be lower or higher than a portfolio that is more diversified or where decisions are based solely on investment considerations. Because ESG criteria exclude some investments, investors may not be able to take advantage of the same opportunities or market trends as investors that do not use such criteria. Diversification does not guarantee a profit or protect against loss in a declining financial market.

Each fund's performance may, from time to time, have been affected significantly by material market and economic conditions, including interest rates, market trends, and general business and economic cycles, which may or may not be repeated in the future. Also, keep in mind that any double-digit returns are highly unusual and cannot be sustained. Such returns are primarily achieved during favorable market conditions.

Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment. Index returns include the reinvestment of all dividends, but do not reflect the payment of transaction costs, advisory fees or expenses that are associated with an investment. The indices selected by Hyas Group to measure performance are representative of broad asset classes. Hyas Group retains the right to change representative indices at any time. Performance of indices may be more or less volatile than any investment product. The risk of loss in value of a specific investment is not the same as the risk of loss in a broad market index. Therefore, the historical returns of an index will not be the same as the historical returns of a particular investment a client selects. Past performance does not guarantee future results.

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.

Peer Groups. Peer Groups are a collection of similar investment strategies that essentially group investment products that share the same investment approach. Peer Groups are used for comparison purposes to compare and illustrate a clients investment portfolio versus its peer across various quantitative metrics like performance and risk. Peer Group comparison is conceptually another form of benchmark comparison whereby the actual investment can be ranked versus its peer across various quantitative metrics.

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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