

457(b) Deferred Compensation and OBRA Plans

September 30, 2023 Performance Report

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THIRD QUARTER 2023 MARKETS AND ECONOMIC UPDATE

GLOBAL ECONOMIC LANDSCAPE

- While consumers' cumulative savings from the pandemic have been in decline for multiple quarters, recent upward data revisions by the Bureau of Economic Analysis suggest they still maintain a sizeable cushion of roughly \$1.75 trillion in excess personal savings. Although interest expenses exceed interest income for US consumers, the difference represents only 6.3% of total income. This data collectively indicates that households may retain more buying power and healthier balance sheets than previously thought.¹
- Germany, which accounts for nearly a third of the Eurozone's GDP and a quarter of the MSCI Eurozone Index's equity market capitalization, fell into technical recession this year after two consecutive quarters of negative growth. Unsurprisingly, given that nearly 20% of the country's GDP is linked to manufacturing, Russia's invasion of Ukraine, with its implications for energy markets, has had an especially strong impact on Germany. More than a year and a half since the invasion, investors are still grappling with elevated natural gas prices. While the worst-case scenario may have been avoided, natural gas prices—significant contributors to electricity costs—remain a problem for Germany's energy-intensive industries.²
- Beijing's policymakers rolled out a slew of capital market support measures in August, following up on the July Politburo meeting mandate to "invigorate the capital market". They included, in particular, cutting stamp duty on securities transactions (the first time since 2008), and restricting share disposals by controlling shareholders. Meanwhile, incoming economic data shows growth has likely troughed in July and a cyclical mini uptick in growth seems to be unfolding. However, investor sentiment remains subdued and the market's reaction lukewarm.³
- Among major central banks, the Bank of Japan (BoJ) has stood as an outlier, seeking to stimulate the domestic economy to deliver sustainable positive inflation. To do so, the BoJ has maintained a yield cap on 10-year sovereign bonds. While recently increased to 1.0% from 0.5%, the BoJ has intervened through large-scale asset purchases to defend these levels. BoJ policymakers continued these commitments at its last policy meeting. On net, these developments may have caused other developed market yields to move higher, counteracting restrictive policy from other central banks. The Japanese yen has returned to last year's relative lows vs. the US dollar, the weakest since 1990.⁴

FIXED INCOME MARKETS

• Over 50% of marketable Treasury debt will mature over the next three years. Should interest rates remain higher, this setup can mechanically lead to increased interest costs and could push deficits higher in coming years. With the Fed focused on inflation, amid still-solid economic growth, the backdrop has changed

¹ Source: Morgan Stanley, Staring into the Abyss, September 29, 2023

² Source: Morgan Stanley, Has the German Economic Model Stalled? September 27, 2023

³ Source: Morgan Stanley, China Musings, September 28, 2023

⁴ Source: Morgan Stanley, Studying Drivers of Recently Higher Treasury Yields, September 27, 2023

dramatically from the past 15 years. Following the Global Financial Crisis and through 2021, accommodative Fed policy, including Quantitative Easing, held long-term Treasury yields low, which limited the consequences of deficit spending. While Quantitative Easing depressed Treasury term premiums, their recent move higher likely reflects investors' assessment about future Treasury refinancing. Because of the "spread" pricing of most other fixed income instruments, higher Treasury yields could mean higher debt costs for corporate and consumer borrowers over the intermediate horizon.⁵

- The repricing of interest rates has finally fully hit the long end of the yield curve, with the past 18 months representing one of the worst drawdowns for US Treasuries in 32 years. With the cumulative rate change of more than 500 basis points, total returns for long-maturity Treasuries have declined as much as 40%—a bear market not experienced in the prior three decades. While this is generating pain for holders of these bonds, in another sense, it is creating opportunity, as value—especially on a nominal-dollar-versus-par basis—suggests potential for attractive returns ahead.
- Despite slowing economic growth and reduced appetite from China and Japan, aggregate foreign demand for US Treasury holdings has rebounded in 2023, approaching all-time highs, with the bulk of demand increase coming from the Eurozone, followed by Canada. Although the US Dollar is subject to ongoing conjecture about its stability as a reserve currency, many countries to date still finance the majority of their trade in it, indicating the potential for sustained demand of the greenback.⁷
- The rise in US Treasury yields has presented a funding limitation for offshore investors seeking credit. Within Asia for example, credit supply growth has recently turned negative, the majority of the downturn due to tightening in China where the investment grade credit supply has decreased by \$22 billion YTD (versus a decrease of \$7 billion for the same period in 2022). Chinese credit investors appear to be redirecting demand more locally, as indicated by increased issuance in Japan and Korea, providing some measure of outlet to the supply shortage.⁸

EQUITY MARKETS

- The theme on narrow market leadership within the US equity market continued through the third quarter, with 7-10 stocks explaining the vast majority of the returns for the S&P 500 market cap weighted index YTD for 2023. In fact, many major indices that do not include these stocks are flat-to-down on the year. From a breadth standpoint, 6 out of 11 S&P 500 sectors are down YTD with the median sector (Energy) down about 2%. While a choppy market like this is hard to characterize as disastrous, narrow leadership has seldom been indicative of a new bull market and cyclical upturn.⁹
- The US Dollar appreciated strongly during the third quarter. Key to this dynamic was that central banks outside the US were also raising rates, thereby containing relative dollar strength. Now, with many of them leaning toward easing as the Fed stays higher for longer, the greenback has regained momentum and conditions are tightening. This could be rough timing for equity investors. S&P 500 earnings are forecast to grow about 12% in 2024; however, they are inversely correlated with

⁵ Source: Morgan Stanley, Studying Drivers of Recently Higher Treasury Yields, September 27, 2023

⁶ Source: Morgan Stanley, The GIC Weekly, Preserving Optionality, September 25, 2023

⁷ Source: Morgan Stanley, A Phoenix from the Ashes, October 6, 2023

⁸ Source: Morgan Stanley, Your Questions Answered (4), October 7, 2023

⁹ Source: Morgan Stanley, Weekly Warm-up: When Uncertainty is High, Price Reigns...Which Side Are You On? October 9, 2023

the dollar, as international profits account for roughly a third of the total. If higher-for-longer rates keep the dollar at recent levels, corporate profits will face a genuine headwind.¹⁰

- Decelerating loan growth may be expected to continue to weigh on earnings for both US and European financials for the near-term. Eurozone loan and mortgage origination growth for example stood at 0.6% and -26% year over year in August. Though certainly weak, Eurozone management commentary has been suggestive of a potential uptick here. The case was similar in the US where year over year HELOC and consumer loan growth turned negative recently and industrial loan growth has been flat. The convergence of low growth, rising regulatory pressure, and lost pricing power in deposits suggest continued challenges for US banks.¹¹
- During summer of 2023, oil, as measured by West Texas Intermediate crude, has gained over 35%, due in part to production cuts from Saudi Arabia and Russia. What's especially striking is how much energy stocks have lagged, with the S&P 500 Energy Index up less than 16%. One reason is what some deemed to be underwhelming earnings last quarter. To be fair, the sector was dealing with challenging comparisons to prior periods after two strong years. Looking forward, potential catalysts include a boost to earnings and free cash flow from higher crude prices, which could also further heighten the appeal of select energy stocks to dividend-oriented investors. Notably, at 9.7x, the sector's P/E ratio is less than half the S&P 500's.¹²

ALTERNATIVE INVESTMENTS

- An El Niño weather event was declared on Sept. 19, and there is a chance it could be a strong one. The last strong El Niño cycle occurred in 2015-2016 and brought food price volatility and energy disruptions. Recent shocks from COVID and the Russian invasion of Ukraine have already caused volatility in these markets, which El Niño could heighten. El Niño most directly affects consumer inflation as food and energy commodity prices pass through. Inflation has come down across both developed and emerging markets, with global headline inflation in August at 3.6%, down from 6.0% in January. It is still above central bank targets in most countries, however. Hence, a severe El Niño could be a headwind for policy normalization.¹³
- Hawkish statements from the Federal Reserve drove REIT prices down for the third quarter, as the Dow Jones US REIT Index returned -7.40% versus -3.27% for the S&P 500 Index. Net Operating Income for REITs tends to correlate with borrowing costs after-inflation, which may pose near-term headwinds for this category. A reversal of upward pressure on interest rates into 2024 however could allow for some price reflation.¹⁴
- Oil markets exhibited strong upward pricing over the third quarter on the back of refinery capacity being stretched, Saudi Arabia and Russia announcing voluntary supply cuts, and robust demand growth. Looking forward, supply reductions are expected to remain in effect into 2024 and balances are expected to remain below demand levels, supporting the expectation of high, though not necessarily higher oil prices.¹⁵

¹⁰ Source: Morgan Stanley, The GIC Weekly, Strong USD to Weight on Financial Conditions, October 2, 2023

¹¹ Source: Morgan Stanley, Loan-Deposit Tracker: August 2023, October 4, 2023

¹² Source: Morgan Stanley, Can Energy Stocks Catch Up to Oil? October 4, 2023

¹³ Source: Morgan Stanley, Adding El Niño to the List of Risks, September 10, 2023

¹⁴ Source: Morgan Stanley, The REIT Weekly, Is higher for longer now priced in? September 25, 2023

¹⁵ Source: Morgan Stanley, The Oil Manual: Tighter-for-Longer, but OPEC Holds the Key, September 20, 2023

Disclosure:

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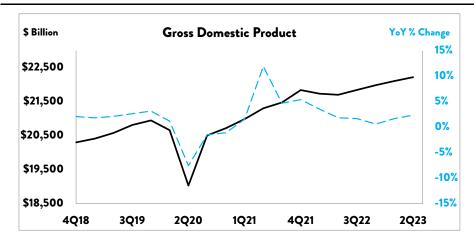
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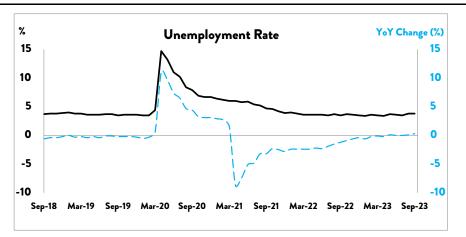
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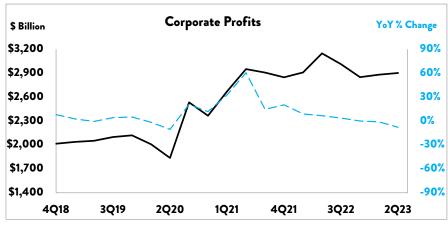
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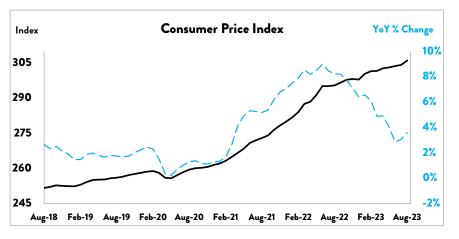
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3Q2023 Economic Data









Key: — Economic Series

1	ear-C)ver-Y	ear (Change

Labor Market Statistics (Monthly)											
Category	Recent	5-Yr High	5-Yr Low	5-Yr Avg.	Date						
Jobs Added/Lost Monthly	336,000	4,505,000	-20,493,000	116,800	Sep-23						
Unemployment Rate	3.8%	14.7%	3.4%	4.9%	Sep-23						
Median Unemployment Length (Weeks)	9.7	22.2	4.0	11.1	Sep-23						
Average Hourly Earnings	\$33.88	\$33.88	\$27.36	\$30.42	Sep-23						

Other Pri	Other Prices and Indexes (Monthly)												
Category	Recent	5-Yr High	5-Yr Low	% Off Peak	Date								
Gas: Price per Gallon	\$3.78	\$4.84	\$1.80	-21.9%	Sep-23								
Spot Oil	\$89.43	\$114.84	\$16.55	-22.1%	Sep-23								
Case-Shiller Home Price Index	313.7	316.2	212.4	47.7%*	Jul-23								
Medical Care CPI	547.0	557.4	485.5	12.7%*	Aug-23								

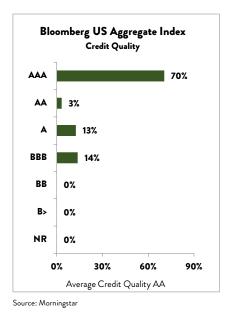
Source: Federal Reserve Bank of St. Louis and Bureau of Labor Statistics

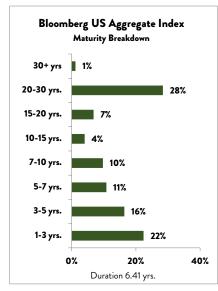
*% Off Low Morningstar data as of 9/30/2023

3Q2023 Bond Market Data

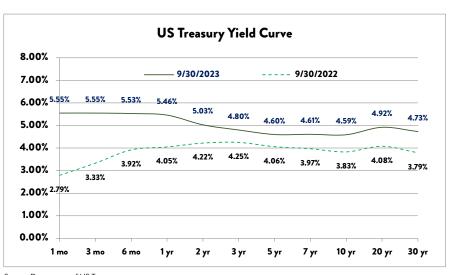
Index	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
90-Day T-Bill	1.36%	3.86%	4.93%	1.99%	1.80%	1.17%
Bloomberg US Aggregate	-3.23%	-1.21%	0.64%	-5.21%	0.10%	1.13%
Bloomberg Short US Treasury	1.33%	3.57%	4.45%	1.53%	1.71%	1.14%
Bloomberg Int. US Treasury	-0.81%	0.28%	1.30%	-3.21%	0.68%	0.80%
Bloomberg Long US Treasury	-11.83%	-8.55%	-9.09%	-15.73%	-2.78%	0.75%
Bloomberg US TIPS	-2.60%	-0.78%	1.25%	-1.98%	2.12%	1.74%
Bloomberg US Credit	-3.01%	0.03%	3.47%	-4.83%	0.86%	2.12%
Bloomberg US Mortgage-Backed	-4.05%	-2.26%	-0.17%	-5.09%	-0.77%	0.61%
Bloomberg US Asset-Backed	0.25%	1.99%	2.81%	-0.80%	1.48%	1.49%
Bloomberg US 20-Yr Municipal	-5.51%	-2.14%	2.98%	-2.87%	1.08%	2.94%
Bloomberg US High Yield	0.46%	5.86%	10.28%	1.76%	2.96%	4.24%
Bloomberg Global	-3.59%	-2.21%	2.24%	-6.93%	-1.62%	-0.44%
Bloomberg International	-4.00%	-3.20%	3.39%	-8.39%	-3.10%	-1.73%
Bloomberg Emerging Market	-2.31%	0.91%	7.56%	-4.21%	0.23%	2.35%

Source: Morningstar

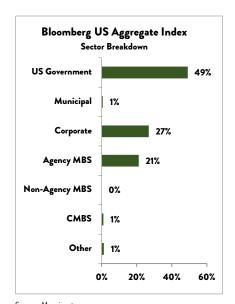




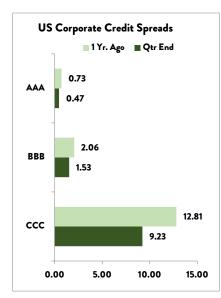
Source: Morningstar



Source: Department of US Treasury



Source: Morningstar



Source: Federal Reserve / Bank of America

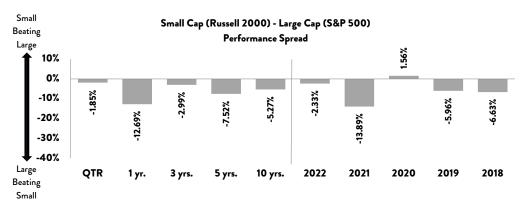
3Q2023 US Equity Market Data

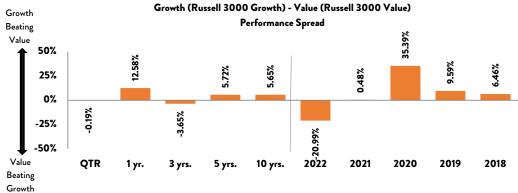
Se	ctors Weig	hts/Returns (ranked by qua	rter performanc	e)	
	Wgt.	Sector	QTR	YTD	1 yr.
	5%	Energy	12.22%	6.03%	30.21%
	9%	Communication Services	3.07%	40.43%	38.48%
	13%	Financials	-1.13%	-1.65%	11.73%
dex	13%	Health Care	-2.65%	-4.09%	8.18%
	2%	Materials	-4.76%	2.61%	18.05%
S&P 500 Index	11%	Consumer Discretionary	-4.80%	26.67%	13.77%
88	8%	Industrials	-5.16%	4.50%	24.58%
•	27%	Information Technology	-5.64%	34.72%	41.10%
	7%	Consumer Staples	-5.97%	-4.76%	7.35%
	2%	Real Estate	-8.90%	-5.45%	-1.84%
	2%	Utilities	-9.25%	-14.41%	-7.02%
	Wgt.	Sector	QTR	YTD	1 yr.
	6%	Energy	15.26%	12.75%	24.53%
×	15%	Financials	0.84%	-5.89%	3.11%
nde	4%	Consumer Staples	-0.38%	8.44%	21.00%
0	22%	Industrials	-3.83%	16.96%	31.90%
40	7%	Materials	-4.28%	1.52%	23.77%
dcar	14%	Consumer Discretionary	-5.48%	5.94%	21.03%
S&P Midcap 400 Index	11%	Information Technology	-6.36%	16.68%	27.60%
% ₽	7%	Real Estate	-8.77%	-5.94%	-2.42%
	8%	Health Care	-9.28%	-4.61%	0.37%
	3%	Utilities	-11.35%	-19.48%	-10.13%
	2%	Communication Services	-15.84%	-16.00%	-12.38%
	Wgt.	Sector	QTR	YTD	1 yr.
	5%	Energy	21.22%	14.32%	37.69%
×	18%	Financials	2.37%	-12.52%	-6.22%
S&P Smallcap 600 Index	5%	Consumer Staples	-3.84%	3.75%	13.88%
00	17%	Industrials	-4.22%	12.85%	29.40%
9 de	8%	Real Estate	-4.57%	-8.01%	0.28%
ا ا	3%	Communication Services	-5.52%	2.34%	-0.92%
S	5%	Materials	-6.79%	4.05%	16.02%
8	14%	Consumer Discretionary	-7.10%	8.24%	20.05%
S	13%	Information Technology	-10.92%	9.72%	18.59%
	2%	Utilities	-11.34%	-15.46%	-4.77%
	10%	Health Care	-15.51%	-14.43%	-14.02%
_					

Source: Morningstar

Index Performance Data

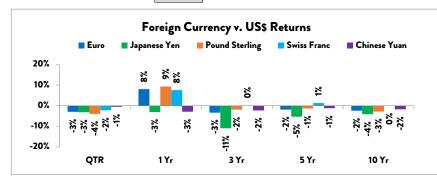
					Annualized	
Index	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
S&P 500	-3.27%	13.07%	21.62%	10.15%	9.92%	11.91%
Russell 1000 Value	-3.16%	1.79%	14.44%	11.05%	6.23%	8.45%
Russell 1000 Growth	-3.13%	24.98%	27.72%	7.97%	12.42%	14.48%
Russell Mid Cap	-4.68%	3.91%	13.45%	8.09%	6.38%	8.98%
Russell Mid Cap Value	-4.46%	0.54%	11.05%	10.98%	5.18%	7.92%
Russell Mid Cap Growth	-5.22%	9.88%	17.47%	2.61%	6.97%	9.94%
Russell 2000	-5.13%	2.54%	8.93%	7.16%	2.40%	6.65%
Russell 2000 Value	-2.96%	-0.53%	7.84%	13.32%	2.59%	6.19%
Russell 2000 Growth	-7.32%	5.24%	9.59%	1.09%	1.55%	6.72%
Russell 3000	-3.25%	12.39%	20.46%	9.38%	9.14%	11.28%
DJ US Select REIT	-7.40%	-2.05%	2.61%	6.12%	1.56%	5.28%





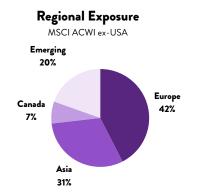
3Q2023 International Market Data

ndex Performance Data (net)						
ndex (US\$)	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
MSCI ACWI ex-US	-3.77%	5.34%	20.39%	3.74%	2.58%	3.35%
MSCI EAFE	-4.11%	7.08%	25.65%	5.75%	3.24%	3.82%
Europe	-4.96%	7.96%	28.85%	7.23%	3.96%	3.83%
United Kingdom	-1.54%	6.77%	24.90%	12.08%	2.85%	2.54%
Germany	-7.72%	8.79%	35.52%	-0.26%	0.27%	2.01%
France	-6.98%	10.06%	34.48%	11.12%	4.85%	5.30%
Pacific	-2.65%	5.51%	20.41%	3.20%	1.99%	3.86%
Japan	-1.59%	11.21%	25.92%	2.81%	2.06%	4.38%
Hong Kong	-11.08%	-17.59%	-2.58%	-4.49%	-3.40%	2.02%
Australia	-3.34%	-0.38%	15.24%	8.27%	4.43%	3.42%
Canada	-4.04%	3.79%	11.49%	9.08%	5.32%	3.90%
MSCI EM	-2.93%	1.82%	11.70%	-1.73%	0.55%	2.07%
MSCI EM Latin America	-4.75%	12.89%	19.37%	15.07%	2.81%	0.24%
MSCI EM Asia	-2.90%	0.99%	11.93%	-3.49%	0.98%	3.82%
MSCI EM Eur/Mid East	-0.95%	3.48%	4.77%	-1.76%	-2.64%	-3.40%
MSCI ACWI Value ex-US	-0.07%	8.19%	25.17%	9.57%	2.29%	2.58%
MSCI ACWI Growth ex-US	-7.31%	2.61%	15.84%	-1.86%	2.54%	3.92%
MSCI ACWI Sm Cap ex-US	-1.70%	5.03%	19.01%	4.02%	2.58%	4.35%



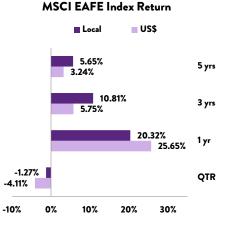
Exchange Rates	QTR	2Q23	1Q23	4Q22	3Q22	2Q22
Japanese Yen	149.43	144.47	132.75	131.81	144.71	135.69
Euro	0.94	0.92	0.92	0.93	1.02	0.96
British Pound	0.82	0.79	0.81	0.83	0.90	0.82
Swiss Franc	0.91	0.89	0.91	0.92	0.98	0.96
Chinese Yuan	7.30	7.25	6.87	6.90	7.11	6.70

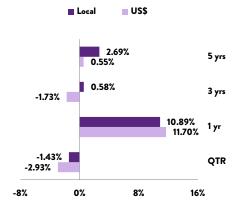
Source: Federal Reserve Bank of St. Louis



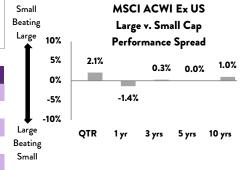
Top 10 Countries (MSCI AC Wor	rld ex-USA)
Japan	15%
UK	10%
China	8%
France	8%
Canada	8%
Switzerland	6%
Germany	5%
Australia	5%
India	5%
Taiwan	4%

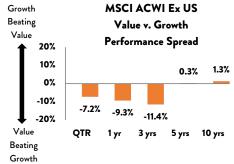
Source: Morningstar





MSCI Emerging Index Return





Performance Source: Morningstar

Historical Market Returns

Ranked by Performance

2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	YTD	3Q23
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%	Large Cap 13.07%	Commod. 4.71%
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 6.54%	Global Balanced 6.01%	Cash 1.36%
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%	High Yield 5.86%	High Yield 0.46%
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%	Intl 5.34%	Core Real Estate -2.16%
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%	Mid Cap 3.91%	TIPS -2.60%
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%	Cash 3.86%	Emerging Markets -2.93%
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%	Small Cap 2.54%	US Bonds -3.23%
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%	Emerging Markets 1.82%	Global Balanced -3.26%
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%	TIPS -0.78%	Large Cap -3.27%
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%	US Bonds -1.21%	Global Bonds -3.59%
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%	Global Bonds -2.21%	Intl -3.77%
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%	Commod3.44%	Mid Cap -4.68%
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%	Commod3.12%	Global Bonds -4.71%	Small Cap -20.44%	Core Real Estate -8.19%	Small Cap -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

Third Quarter 2023

Combined 457(b) DC Plans

Fixed Income	Ticker	Assets	%
Voya Fixed Account	-	\$327,537,850	32.9%
Vanguard Total Bond Market Index I	VBTIX	\$34,836,325	3.5%
Sterling Capital Total Return Bond R6	STRDX	\$1,897,058	0.2%
	Total	\$364,271,233	36.6%

Large Cap	Ticker	Assets	%
MFS Value R4	WEIJX	\$20,212,092	2.0%
Vanguard Institutional Index Instl Plus	VIIIX	\$141,143,490	14.2%
JPMorgan Large Cap Growth R6	JLGMX	\$65,793,240	6.6%
	Total	\$227,148,822	22.8%

Mid Cap	Ticker	Assets	%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$6,955,922	0.7%
Vanguard Extended Market Index Instl Plus	VEMPX	\$94,469,752	9.5%
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$20,211,453	2.0%
	Total	\$121,637,127	12.2%

International	Ticker	Assets	%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$43,018,913	4.3%
American Funds EuroPacific Growth R6	RERGX	\$6,266,510	0.6%
	Total	\$49,285,423	5.0%

Asset Allocation	Ticker	Assets	%
Vanguard Target Retirement Income Trust II	-	\$38,638,308	3.9%
Vanguard Target Retirement 2020 Trust II	-	\$11,447,025	1.2%
Vanguard Target Retirement 2025 Trust II	-	\$43,212,738	4.3%
Vanguard Target Retirement 2030 Trust II	-	\$16,020,138	1.6%
Vanguard Target Retirement 2035 Trust II	-	\$52,689,691	5.3%
Vanguard Target Retirement 2040 Trust II	-	\$9,386,735	0.9%
Vanguard Target Retirement 2045 Trust II	-	\$28,290,282	2.8%
Vanguard Target Retirement 2050 Trust II	-	\$6,512,439	0.7%
Vanguard Target Retirement 2055 Trust II	-	\$8,257,742	0.8%
Vanguard Target Retirement 2060 Trust II	-	\$2,696,288	0.3%
Vanguard Target Retirement 2065 Trust II	-	\$1,257,833	0.1%
Vanguard Target Retirement 2070 Trust II	-	\$305,149	0.0%
	Total	\$218.714.369	22.0%

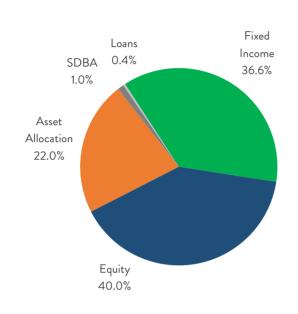
Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account	-	\$10,101,817	1.0%
Participant Loans	-	\$3,484,885	0.4%
	Total	\$13,586,702	1.4%

TOTAL PLAN ASSETS \$994,643,677

Administrative Account Balance (10/9/23) \$289,317

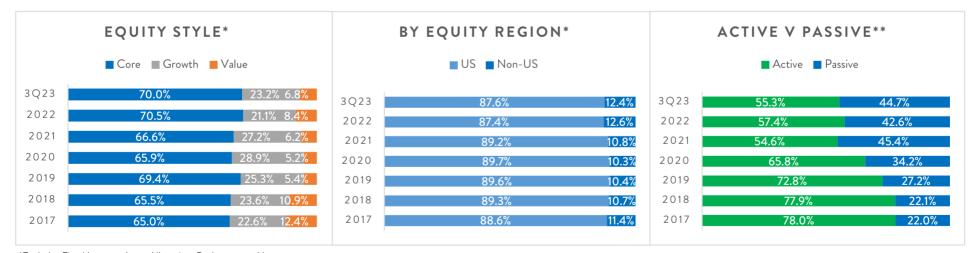
Third Quarter 2023

Combined 457(b) DC Plans



HISTORICAL PLAN ALLOCATION

Asset Class	3Q23	2022	2021	2020	2019	2018	2017	2016
Fixed Income	36.6%	39.7%	34.0%	36.7%	38.1%	43.8%	41.5%	N/A
Large Cap	22.8%	20.9%	24.4%	22.4%	21.8%	18.8%	20.4%	N/A
Mid Cap	12.2%	12.2%	14.5%	14.9%	14.4%	13.4%	14.2%	N/A
International	5.0%	4.8%	4.7%	4.3%	4.2%	4.0%	4.4%	N/A
Asset Allocation	22.0%	21.3%	21.3%	20.7%	20.7%	19.2%	18.7%	N/A
SDBA	1.0%	0.8%	0.9%	0.6%	0.4%	0.3%	0.3%	N/A
Loans	0.4%	0.4%	0.3%	0.3%	0.4%	0.5%	0.4%	N/A



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

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

Combined 457(b) DC Plans

Third Quarter 2023

PLAN LEVEL CASH FLOWS

SDBA

Total

\$9,244,872

\$1,018,169,287

\$0

\$17,558,609

Cash Flow Cash Flow Market Beginning Value (+) (-) Gain/Loss **Ending Value** Transfer \$364,271,233 Fixed Income \$372,028,500 \$3,702,613 (\$11,427,724) (\$1,319,429) \$1,287,273 Large Cap \$235,639,961 \$3,683,401 (\$5,180,882) \$943,176 (\$7,936,833) \$227,148,822 Mid Cap \$126,970,578 \$1,974,037 (\$2,235,706) (\$315,564) (\$4,756,218) \$121,637,127 \$50,456,704 \$923,885 (\$731,886) \$839,011 (\$2,202,292) \$49,285,423 International **Asset Allocation** \$223,828,672 \$7,274,672 (\$4,183,527) (\$1,244,764) (\$6,960,685) \$218,714,369

\$0

(\$23,759,725)

\$1,140,926

\$43,356

(\$283,981)

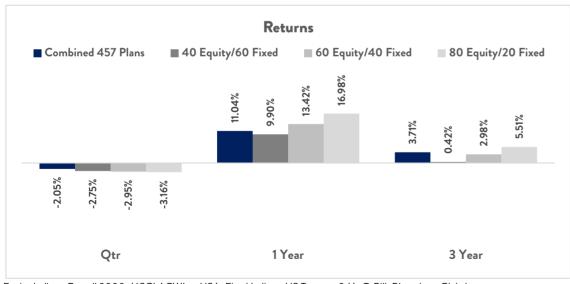
(\$20,852,736)

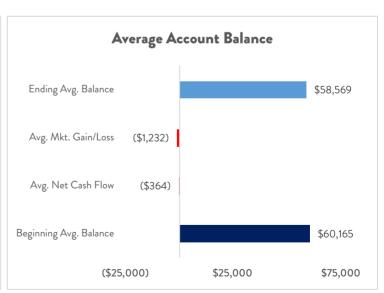
\$10,101,817

\$991,158,791

HISTORICAL PLAN CASH FLOWS

	Beginning	Net Cash	Market	
	Value	Flow	Gain/Loss	Ending Value
3Q23	\$1,018,169,287	(\$6,157,760)	(\$20,852,736)	\$991,158,791
YTD	\$944,760,930	(\$15,902,804)	\$62,300,666	\$991,158,791
2022	\$1,103,984,931	(\$9,111,229)	(\$150,112,772)	\$944,760,930
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





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

STATE EMPLOYEES PLAN

PLAN ASSET ALLOCATION

Third Quarter 2023

457(b) Deferred Compensation Plan

Fixed Income	Ticker	Assets	%
Voya Fixed Account	-	\$230,798,091	35.2%
Vanguard Total Bond Market Index I	VBTIX	\$22,266,484	3.4%
Sterling Capital Total Return Bond R6	STRDX	\$815,819	0.1%
	Total	\$253,880,394	38.7%

Large Cap	Ticker	Assets	%
MFS Value R4	MEIJX	\$12,786,173	2.0%
Vanguard Institutional Index Instl Plus	VIIIX	\$90,482,979	13.8%
JPMorgan Large Cap Growth R6	JLGMX	\$41,500,172	6.3%
	Total	\$144,769,324	22.1%

Mid Cap	Ticker	Assets	%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$4,051,671	0.6%
Vanguard Extended Market Index Instl Plus	VEMPX	\$60,680,999	9.3%
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$13,200,795	2.0%
	Total	\$77,933,465	11.9%

International	Ticker	Assets	%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$25,520,887	3.9%
American Funds EuroPacific Growth R6	RERGX	\$3,758,131	0.6%
	Total	\$29,279,018	4.5%

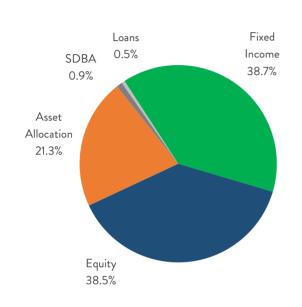
Asset Allocation	Ticker	Assets	%
Vanguard Target Retirement Income Trust II	-	\$29,655,135	4.5%
Vanguard Target Retirement 2020 Trust II	-	\$6,396,494	1.0%
Vanguard Target Retirement 2025 Trust II	-	\$28,951,638	4.4%
Vanguard Target Retirement 2030 Trust II	-	\$8,721,903	1.3%
Vanguard Target Retirement 2035 Trust II	-	\$36,408,162	5.6%
Vanguard Target Retirement 2040 Trust II	-	\$4,945,232	0.8%
Vanguard Target Retirement 2045 Trust II	-	\$15,631,689	2.4%
Vanguard Target Retirement 2050 Trust II	-	\$2,955,558	0.5%
Vanguard Target Retirement 2055 Trust II	-	\$4,218,485	0.6%
Vanguard Target Retirement 2060 Trust II	-	\$1,087,366	0.2%
Vanguard Target Retirement 2065 Trust II	-	\$470,436	0.1%
Vanguard Target Retirement 2070 Trust II	-	\$253,907	0.0%
	Total	\$139,696,003	21.3%

Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account	-	\$6,170,769	0.9%
Participant Loans	-	\$3,482,565	0.5%
	Total	\$9,653,334	1.5%

TOTAL PLAN ASSETS \$655,211,538
Administrative Account Balance (10/9/23) \$289,317

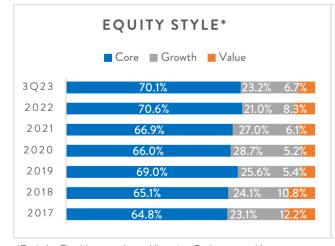
Third Quarter 2023

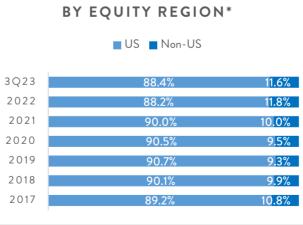
457(b) Deferred Compensation Plan

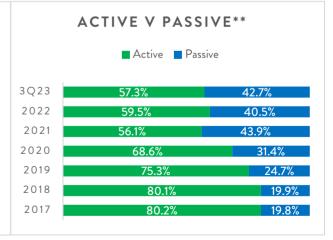


HISTORICAL PLAN ALLOCATION

Asset Class	3Q23	2022	2021	2020	2019	2018	2017	2016
Fixed Income	38.7%	41.7%	35.4%	38.0%	40.1%	44.9%	42.8%	N/A
Large Cap	22.1%	20.0%	23.7%	21.5%	20.6%	18.6%	19.1%	N/A
Mid Cap	11.9%	11.8%	14.2%	14.5%	13.8%	12.6%	13.6%	N/A
International	4.5%	4.3%	4.2%	3.8%	3.5%	3.4%	4.0%	N/A
Asset Allocation	21.3%	20.9%	21.3%	21.2%	21.1%	19.4%	19.6%	N/A
SDBA	0.9%	0.7%	0.7%	0.5%	0.3%	0.3%	0.3%	N/A
Loans	0.5%	0.6%	0.5%	0.5%	0.6%	0.7%	0.6%	N/A







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

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

Third Quarter 2023

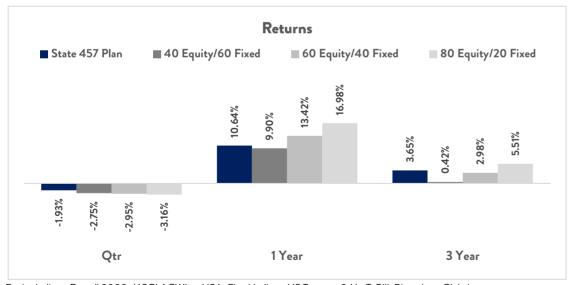
457(b) Deferred Compensation Plan

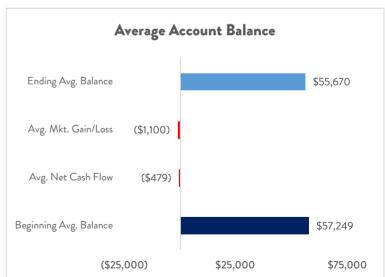
PLAN LEVEL CASH FLOWS

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$259,230,819	\$2,683,543	(\$8,116,503)	(\$921,801)	\$1,004,335	\$253,880,394
Large Cap	\$150,442,912	\$2,500,854	(\$3,454,995)	\$331,430	(\$5,050,876)	\$144,769,324
Mid Cap	\$81,405,532	\$1,267,433	(\$1,797,216)	\$101,334	(\$3,043,618)	\$77,933,465
International	\$30,146,383	\$560,887	(\$556,327)	\$435,658	(\$1,307,584)	\$29,279,018
Asset Allocation	\$143,572,786	\$4,412,116	(\$3,152,981)	(\$755,820)	(\$4,380,097)	\$139,696,003
SDBA	\$5,416,039	\$0	\$0	\$852,107	(\$97,377)	\$6,170,769
Total	\$670,214,470	\$11,424,833	(\$17,078,021)	\$42,907	(\$12,875,217)	\$651,728,973

HISTORICAL PLAN CASH FLOWS

			Market	
	Beginning Value	Net Cash Flow	Gain/Loss	Ending Value
3Q23	\$670,214,470	(\$5,610,281)	(\$12,875,217)	\$651,728,973
YTD	\$628,030,428	(\$16,365,913)	\$40,064,458	\$651,728,973
2022	\$736,232,396	(\$11,933,591)	(\$96,268,377)	\$628,030,428
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





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

POLITICAL SUBDIVISIONS

PLAN ASSET ALLOCATION

457(b) Deferred Compensation Plan

Third Quarter 2023

Fixed Income	Ticker	Assets	%
Voya Fixed Account	-	\$81,974,233	32.7%
Vanguard Total Bond Market Index I	∨BTIX	\$8,787,931	3.5%
Sterling Capital Total Return Bond R6	STRDX	\$462,465	0.2%
	Total	\$91,224,629	36.4%

Large Cap	Ticker	Assets	%
MFS Value R4	MEIJX	\$5,663,327	2.3%
Vanguard Institutional Index Instl Plus	VIIIX	\$35,160,671	14.0%
JPMorgan Large Cap Growth R6	JLGMX	\$19,246,582	7.7%
	Total	\$60,070,580	24.0%

Mid Cap	Ticker	Assets	%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$2,018,973	0.8%
Vanguard Extended Market Index Instl Plus	VEMPX	\$25,198,648	10.1%
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$4,310,550	1.7%
	Total	\$31,528,171	12.6%

International	Ticker	Assets	%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$12,778,069	5.1%
American Funds EuroPacific Growth R6	RERGX	\$1,321,255	0.5%
	Total	\$14,099,324	5.6%

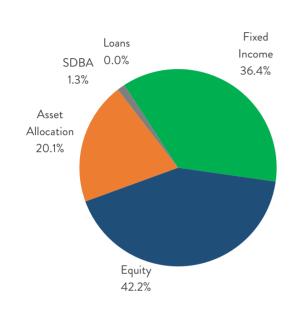
Asset Allocation	Ticker	Assets	%
Vanguard Target Retirement Income Trust II		\$4,259,517	1.7%
Vanguard Target Retirement 2020 Trust II	-	\$2,398,510	1.0%
Vanguard Target Retirement 2025 Trust II	-	\$8,196,594	3.3%
Vanguard Target Retirement 2030 Trust II	-	\$3,843,451	1.5%
Vanguard Target Retirement 2035 Trust II	-	\$10,965,939	4.4%
Vanguard Target Retirement 2040 Trust II	-	\$2,759,505	1.1%
Vanguard Target Retirement 2045 Trust II	-	\$9,962,718	4.0%
Vanguard Target Retirement 2050 Trust II	-	\$2,663,939	1.1%
Vanguard Target Retirement 2055 Trust II	-	\$3,274,899	1.3%
Vanguard Target Retirement 2060 Trust II	-	\$1,501,887	0.6%
Vanguard Target Retirement 2065 Trust II	-	\$498,938	0.2%
Vanguard Target Retirement 2070 Trust II	-	\$36,302	0.0%
	Total	\$50,362,200	20.1%

Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account	-	\$3,210,295	1.3%
Participant Loans	-	\$2,320	0.0%
	Total	\$3,212,616	1.3%

TOTAL PLAN ASSETS \$250,497,519

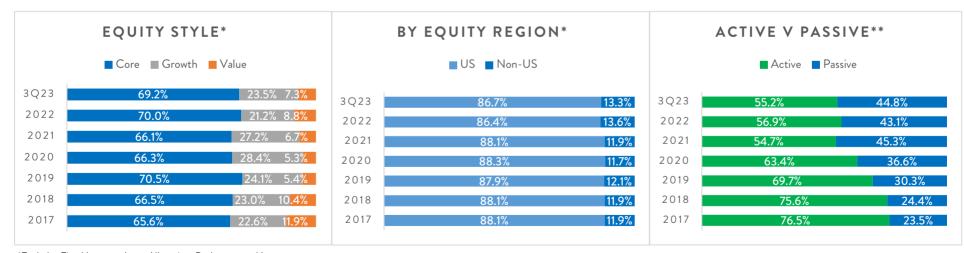
457(b) Deferred Compensation Plan

Third Quarter 2023



HISTORICAL PLAN ALLOCATION

Asset Class	3Q23	2022	2021	2020	2019	2018	2017	2016
Fixed Income	36.4%	39.6%	34.5%	37.9%	37.5%	46.2%	42.5%	N/A
Large Cap	24.0%	22.3%	25.5%	24.5%	24.4%	17.5%	22.8%	N/A
Mid Cap	12.6%	12.6%	15.1%	15.2%	15.3%	15.1%	15.0%	N/A
International	5.6%	5.5%	5.5%	5.3%	5.5%	5.2%	5.1%	N/A
Asset Allocation	20.1%	18.9%	18.0%	16.2%	16.6%	15.6%	14.0%	N/A
SDBA	1.3%	1.1%	1.5%	0.9%	0.7%	0.5%	0.6%	N/A
Loans	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	N/A



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

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

457(b) Deferred Compensation Plan

Third Quarter 2023

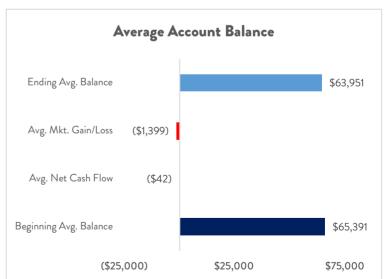
PLAN LEVEL CASH FLOWS

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$93,120,515	\$789,172	(\$2,610,380)	(\$391,257)	\$316,580	\$91,224,629
Large Cap	\$61,747,629	\$871,367	(\$860,410)	\$436,280	(\$2,124,286)	\$60,070,580
Mid Cap	\$32,553,184	\$569,423	(\$365,169)	(\$15,506)	(\$1,213,761)	\$31,528,171
International	\$14,271,673	\$277,437	(\$141,535)	\$307,770	(\$616,021)	\$14,099,324
Asset Allocation	\$51,156,396	\$1,951,037	(\$644,297)	(\$425,990)	(\$1,674,946)	\$50,362,200
SDBA	\$3,287,943	\$0	\$0	\$88,814	(\$166,461)	\$3,210,295
Total	\$256,137,340	\$4,458,436	(\$4,621,792)	\$111	(\$5,478,895)	\$250,495,199

HISTORICAL PLAN CASH FLOWS

		Net Cash	Market	
	Beginning Value	Flow	Gain/Loss	Ending Value
3Q23	\$256,137,340	(\$163,246)	(\$5,478,895)	\$250,495,199
YTD	\$233,192,231	\$1,024,034	\$16,278,934	\$250,495,199
2022	\$268,237,618	\$2,772,040	(\$37,817,427)	\$233,192,231
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





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

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PLAN ASSET ALLOCATION

457(b) Deferred Compensation Plan

Third Quarter 2023

Fixed Income	Ticker	Assets	%
Voya Fixed Account	-	\$14,765,527	16.6%
Vanguard Total Bond Market Index I	VBTIX	\$3,781,911	4.3%
Sterling Capital Total Return Bond R6	STRDX	\$618,773	0.7%
	Total	\$19,166,211	21.6%

Large Cap	Ticker	Assets	%
MFS Value R4	WEIJX	\$1,762,591	2.0%
Vanguard Institutional Index Instl Plus	VIIIX	\$15,499,839	17.4%
JPMorgan Large Cap Growth R6	JLGMX	\$5,046,487	5.7%
	Total	\$22,308,918	25.1%

Mid Cap	Ticker	Assets	%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$885,278	1.0%
Vanguard Extended Market Index Instl Plus	VEMPX	\$8,590,105	9.7%
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$2,700,108	3.0%
	Total	\$12,175,491	13.7%

International	Ticker	Assets	%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$4,719,958	5.3%
American Funds EuroPacific Growth R6	RERGX	\$1,187,123	1.3%
	Total	\$5,907,081	6.6%

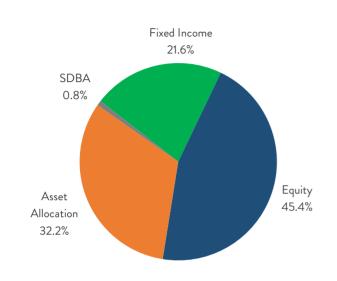
Asset Allocation	Ticker	Assets	%
Vanguard Target Retirement Income Trust II	-	\$4,723,656	5.3%
Vanguard Target Retirement 2020 Trust II	-	\$2,652,021	3.0%
Vanguard Target Retirement 2025 Trust II	-	\$6,064,507	6.8%
Vanguard Target Retirement 2030 Trust II	-	\$3,454,784	3.9%
Vanguard Target Retirement 2035 Trust II	-	\$5,315,590	6.0%
Vanguard Target Retirement 2040 Trust II	-	\$1,681,998	1.9%
Vanguard Target Retirement 2045 Trust II	-	\$2,695,875	3.0%
Vanguard Target Retirement 2050 Trust II	-	\$892,943	1.0%
Vanguard Target Retirement 2055 Trust II	-	\$764,358	0.9%
Vanguard Target Retirement 2060 Trust II	-	\$107,034	0.1%
Vanguard Target Retirement 2065 Trust II	-	\$288,459	0.3%
Vanguard Target Retirement 2070 Trust II	-	\$14,940	0.0%
	Total	\$28,656,166	32.2%

Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account	-	\$720,752	0.8%
	Total	\$720,752	0.8%

TOTAL PLAN ASSETS \$88,934,619

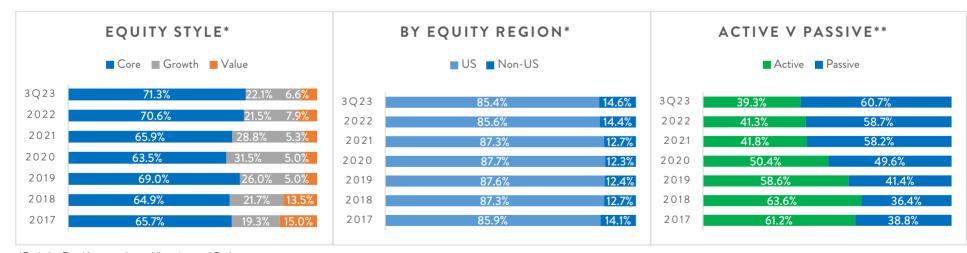
457(b) Deferred Compensation Plan

Third Quarter 2023



HISTORICAL PLAN ALLOCATION

Asset Class	3Q23	2022	2021	2020	2019	2018	2017	2016
Fixed Income	21.6%	24.6%	22.3%	22.9%	22.4%	27.3%	26.9%	N/A
Large Cap	25.1%	23.7%	26.1%	24.4%	24.4%	24.1%	24.7%	N/A
Mid Cap	13.7%	14.1%	15.6%	17.3%	17.1%	15.7%	16.8%	N/A
International	6.6%	6.3%	6.1%	5.8%	5.9%	5.8%	6.8%	N/A
Asset Allocation	32.2%	30.7%	29.4%	29.1%	29.9%	26.8%	24.7%	N/A
SDBA	0.8%	0.6%	0.6%	0.5%	0.3%	0.3%	0.1%	N/A



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

^{**}Excludes Asset Allocation and Brokerage assets

457(b) Deferred Compensation Plan

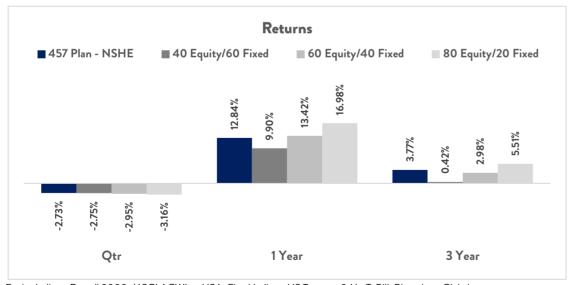
Third Quarter 2023

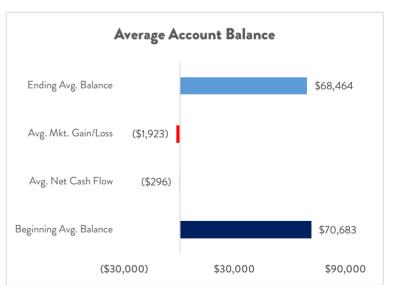
PLAN LEVEL CASH FLOWS

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$19,677,166	\$229,898	(\$700,840)	(\$6,371)	(\$33,642)	\$19,166,211
Large Cap	\$23,449,419	\$311,181	(\$865,477)	\$175,466	(\$761,671)	\$22,308,918
Mid Cap	\$13,011,863	\$137,181	(\$73,321)	(\$401,392)	(\$498,839)	\$12,175,491
International	\$6,038,648	\$85,562	(\$34,024)	\$95,583	(\$278,687)	\$5,907,081
Asset Allocation	\$29,099,490	\$911,519	(\$386,249)	(\$62,954)	(\$905,641)	\$28,656,166
SDBA	\$540,890	\$0	\$0	\$200,005	(\$20,143)	\$720,752
Total	\$91,817,477	\$1,675,340	(\$2,059,912)	\$338	(\$2,498,624)	\$88,934,619

HISTORICAL PLAN CASH FLOWS

			Market	
	Beginning Value	Net Cash Flow	Gain/Loss	Ending Value
3Q23	\$91,817,477	(\$384,234)	(\$2,498,624)	\$88,934,619
YTD	\$83,538,271	(\$560,925)	\$5,957,273	\$88,934,619
2022	\$99,514,917	\$50,322	(\$16,026,968)	\$83,538,271
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





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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Third Quarter 2023

FICA Alternative OBRA Plan

HISTORICAL PLAN CASH FLOWS

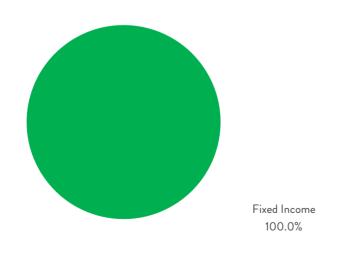
Fixed Income	Ticker	Assets	%
Voya Fixed Account - FICA	-	\$62,315,250	100.0%
	Total	\$62,315,250	100.0%

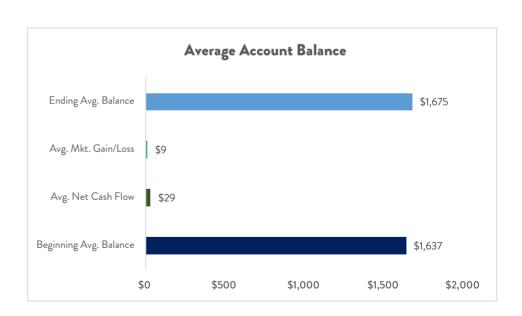
	Beginning Value	Net Cash Flow	Market Gain/Loss	Ending Value
3Q23	\$60,893,388	\$1,079,008	\$342,854	\$62,315,250
YTD	\$58,595,787	\$2,712,395	\$1,007,068	\$62,315,250
2022	\$53,114,954	\$4,247,755	\$1,233,078	\$58,595,787
2021	\$48,389,052	\$3,600,343	\$1,125,559	\$53,114,954
2020	\$45,103,420	\$2,240,312	\$1,045,320	\$48,389,052
2019	\$40,981,957	\$3,480,620	\$640,843	\$45,103,420

TOTAL PLAN ASSETS

Administrative Account Balance (10/9/23)

\$62,315,250 \$33,807





Section 3

INVESTMENT POLICY STATEMENT COMPLIANCE REPORT

Combined Retirement Plans

Third Quarter 2023

			Investment Policy	Status	
	Performance	Qualitative	On-Watch		Added to
Key: 🕑 Pass / 👂 Caution / • Fail	Factors	Factors	Information	Notes	Plan
Voya Fixed Account	P	P	-		4Q2004
Voya Fixed Account - FICA	P	P	-		4Q2004
Vanguard Total Bond Market Index I	P	P	-		1Q2010
Sterling Capital Total Return Bond R6	P	P	-		3Q2021
MFS Value R4	P	P	_		3Q2016
Vanguard Institutional Index Instl Plus	P	P	-		3Q2021
JPMorgan Large Cap Growth R6	P	P	-		2Q2023
Vanguard Mid-Cap Value Index Adm	P	P	-		2Q2017
Vanguard Extended Market Index Instl Plus	P	P	-		3Q2021
Vanguard Mid-Cap Growth Index Adm	P	P	-		2Q2022
Vanguard Instl Total Intl Stock Mkt Index Trust	P	P	-		4Q2022
American Funds EuroPacific Growth R6	P	P	-		1Q2019
Vanguard Target Retirement Income Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2020 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2025 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2030 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2035 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2040 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2045 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2050 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2055 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2060 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2065 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2070 Trust II	P	P	-		4Q2022

				Annualized								
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Voya Fixed Account	0.74	2.24	3.00	3.04	2.96		-	3.00	3.10	3.10	2.70	2.54
5 Yr Constant Maturity US Treasury Yield	1.06	2.94	3.95	2.29	2.00	1.89	1.78	3.00	0.85	0.54	1.96	2.75
+/- Index	(0.32)	(0.70)	(0.95)	0.75	0.96	-	-	0.00	2.25	2.56	0.74	(0.21)
US Stable Value	16	12	9	1	1	-	N/A	1	2	1	4	5
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Voya Fixed Account - FICA	0.56	1.68	2.25	2.25	2.06	-	-	2.25	2.25	2.25	1.50	1.50
5 Yr Constant Maturity US Treasury Yield	1.06	2.94	3.95	2.29	2.00	1.89	1.78	3.00	0.85	0.54	1.96	2.75
+/- Index	(0.50)	(1.26)	(1.70)	(0.04)	0.06	-	-	(0.75)	1.40	1.71	(0.46)	(1.25)
US Stable Value	73	64	56	10	24	-	N/A	8	3	10	97	83
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Total Bond Market Index I	-3.08	-0.91	0.74	-5.20	0.15	1.12	2.52	-13.15	-1.65	7.74	8.73	-0.01
Bloomberg US Aggregate Bond Index	-3.23	-1.21	0.64	-5.21	0.10	1.13	2.53	-13.01	-1.54	7.51	8.72	0.01
+/- Index	0.15	0.30	0.10	0.01	0.05	(0.01)	(0.01)	(0.14)	(0.11)	0.23	0.01	(0.02)
US Fund Intermediate Core Bond	41	41	39	52	36	41	N/A	34	55	54	34	27
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Sterling Capital Total Return Bond R6	-3.08	-0.69	0.88	-4.64	0.61	1.68	3.35	-13.15	-1.12	9.35	9.37	-0.27
Bloomberg US Aggregate Bond Index	-3.23	-1.21	0.64	-5.21	0.10	1.13	2.53	-13.01	-1.54	7.51	8.72	0.01
+/- Index	0.15	0.52	0.24	0.57	0.51	0.55	0.82	(0.14)	0.42	1.84	0.65	(0.28)
US Fund Intermediate Core Bond	40	28	31	21	13	5	N/A	34	28	15	18	42
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
MFS Value R4	-3.23	-1.22	12.20	9.48	6.86	8.77	8.95	-5.90	25.42	3.91	30.08	-9.87
Russell 1000 Value Index	-3.16	1.79	14.44	11.05	6.23	8.45	8.59	-7.54	25.16	2.80	26.54	-8.27
+/- Index	(0.07)	(3.01)	(2.24)	(1.57)	0.63	0.32	0.36	1.64	0.26	1.11	3.54	(1.60)
US Fund Large Value	69	81	68	76	36	32	N/A	53	59	37	7	68

				F	Annualize	d						
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Institutional Index Instl Plus	-3.27	13.05	21.60	10.13	9.90	11.90	11.29	-18.13	28.69	18.41	31.48	-4.41
S&P 500 Index	-3.27	13.07	21.62	10.15	9.92	11.91	11.28	-18.11	28.71	18.40	31.49	-4.38
+/- Index	0.00	(0.02)	(0.02)	(0.02)	(0.02)	(0.01)	0.01	(0.02)	(0.02)	0.01	0.00	(0.02)
US Fund Large Blend	48	23	28	28	14	7	N/A	49	21	32	22	22
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
JPMorgan Large Cap Growth R6	-3.64	18.93	23.20	5.61	13.38	15.32	14.44	-25.21	18.79	56.42	39.39	0.57
Russell 1000 Growth Index	-3.13	24.98	27.72	7.97	12.42	14.48	13.67	-29.14	27.60	38.49	36.39	-1.51
+/- Index	(0.51)	(6.05)	(4.52)	(2.36)	0.96	0.84	0.77	3.93	(8.81)	17.93	3.00	2.08
US Fund Large Growth	48	64	59	38	2	2	N/A	22	68	10	4	26
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Mid-Cap Value Index Adm	-4.85	-1.57	10.35	11.31	5.41	8.40	9.88	-7.90	28.76	2.54	27.99	-12.42
Vanguard US Mid Cap Value Index	-4.85	-1.56	10.37	11.36	5.44	8.43	9.93	-7.84	28.83	2.50	28.05	-12.42
+/- Index	0.00	(0.01)	(0.02)	(0.05)	(0.03)	(0.03)	(0.05)	(0.06)	(0.07)	0.04	(0.06)	0.00
US Fund Mid-Cap Value	79	84	77	73	50	22	N/A	45	47	52	42	36
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Extended Market Index Instl Plus	-3.34	8.93	14.50	4.72	4.54	7.94	9.72	-26.45	12.48	32.24	28.07	-9.35
Vanguard Extended Market Index	-3.38	8.76	14.28	4.58	4.40	7.80	9.61	-26.54	12.35	32.17	27.95	-9.57
+/- Index	0.04	0.17	0.22	0.14	0.14	0.14	0.11	0.09	0.13	0.07	0.12	0.22
US Fund Mid-Cap Blend	25	10	42	90	72	49	N/A	98	95	2	43	29
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Mid-Cap Growth Index Adm	-5.28	8.86	15.06	3.24	7.18	9.46	10.69	-28.84	20.48	34.48	33.86	-5.60
Vanguard US Mid Cap Growth Index	-5.27	8.91	15.12	3.27	7.22	9.51	10.67	-28.83	20.51	34.56	33.93	-5.57
+/- Index	(0.01)	(0.05)	(0.06)	(0.03)	(0.04)	(0.05)	0.02	(0.01)	(0.03)	(0.08)	(0.07)	(0.04)
US Fund Mid-Cap Growth	40	40	39	31	29	38	N/A	55	15	54	49	56

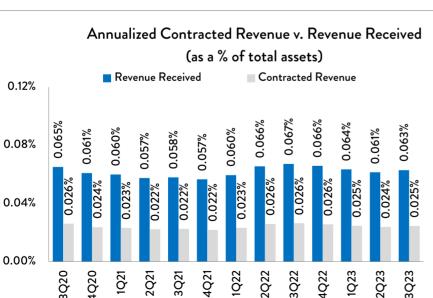
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	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Instl Total Intl Stock Mkt Index Trust	-3.99	5.17	20.66	3.97	2.87	-	-	-15.92	8.73	11.48	21.68	-14.35
Vanguard Total International Stock Index	-3.33	5.48	20.40	4.13	2.86	3.72	4.55	-16.10	8.84	11.24	21.81	-14.62
+/- Index	(0.66)	(0.31)	0.26	(0.16)	0.01	-	-	0.18	(0.11)	0.24	(0.13)	0.27
US Fund Foreign Large Blend	25	57	71	54	47	-	N/A	50	63	38	58	38
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
American Funds EuroPacific Growth R6	-6.33	5.15	19.64	0.08	3.11	4.64	5.58	-22.72	2.84	25.27	27.40	-14.91
MSCI ACWI Ex-USA (Net) Index	-3.77	5.34	20.39	3.74	2.58	3.35	4.31	-16.00	7.82	10.65	21.51	-14.20
+/- Index	(2.56)	(0.19)	(0.75)	(3.66)	0.53	1.29	1.27	(6.72)	(4.98)	14.61	5.89	(0.71)
US Fund Foreign Large Blend	83	58	80	96	39	13	N/A	96	95	2	10	47
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement Income Trust II	-2.41	3.15	7.05	-0.12	2.72	3.64	4.71	-12.73	5.25	10.08	13.28	-2.00
Vanguard Retirement Income Index	-2.26	3.24	7.32	0.10	2.97	3.84	4.83	-12.44	5.43	10.70	13.40	-1.98
+/- Index	(0.15)	(0.09)	(0.27)	(0.22)	(0.25)	(0.20)	(0.12)	(0.29)	(0.18)	(0.63)	(0.12)	(0.03)
US Fund Target-Date Retirement	30	21	47	47	22	22	N/A	49	64	29	44	18
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2020 Trust II	-2.63	4.19	9.39	1.46	3.62	5.30	6.27	-14.14	8.24	12.10	17.69	-4.19
Vanguard Retirement 2020 Index	-2.47	4.33	9.67	1.73	3.95	5.53	6.47	-13.77	8.43	12.86	17.87	-4.14
+/- Index	(0.16)	(0.14)	(0.28)	(0.27)	(0.33)	(0.23)	(0.20)	(0.37)	(0.19)	(0.76)	(0.18)	(0.05)
US Fund Target-Date 2020	17	13	34	45	23	15	N/A	40	60	38	32	45
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2025 Trust II	-2.99	5.20	11.57	2.26	4.14	5.88	6.73	-15.44	9.90	13.39	19.75	-5.07
Vanguard Retirement 2025 Index	-2.77	5.41	11.90	2.58	4.50	6.13	6.94	-15.02	10.10	14.19	19.93	-5.01
+/- Index	(0.22)	(0.21)	(0.33)	(0.32)	(0.36)	(0.25)	(0.21)	(0.42)	(0.20)	(0.79)	(0.18)	(0.07)
US Fund Target-Date 2025	34	5	7	26	14	9	N/A	48	45	29	17	43

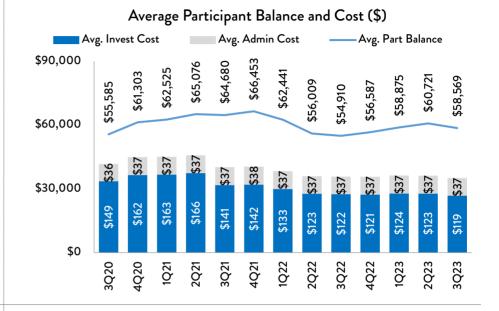
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	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2030 Trust II	-3.24	5.93	13.12	3.05	4.55	6.36	7.11	-16.16	11.46	14.19	21.15	-5.79
Vanguard Retirement 2030 Index	-2.98	6.17	13.52	3.40	4.91	6.62	7.34	-15.71	11.65	14.96	21.33	-5.74
+/- Index	(0.26)	(0.24)	(0.40)	(0.35)	(0.36)	(0.26)	(0.23)	(0.45)	(0.19)	(0.78)	(0.18)	(0.05)
US Fund Target-Date 2030	35	6	10	33	18	14	N/A	43	53	33	35	37
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2035 Trust II	-3.30	6.65	14.65	3.98	5.01	6.87	7.55	-16.52	13.07	14.92	22.57	-6.54
Vanguard Retirement 2035 Index	-3.04	6.89	14.98	4.31	5.37	7.14	7.77	-16.22	13.24	15.67	22.76	-6.48
+/- Index	(0.26)	(0.24)	(0.33)	(0.33)	(0.36)	(0.27)	(0.22)	(0.30)	(0.17)	(0.75)	(0.19)	(0.06)
US Fund Target-Date 2035	26	19	24	52	30	22	N/A	35	74	37	45	29
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2040 Trust II	-3.36	7.39	16.18	4.87	5.45	7.34	7.94	-16.94	14.68	15.57	23.97	-7.30
Vanguard Retirement 2040 Index	-3.10	7.62	16.48	5.23	5.82	7.62	8.17	-16.51	14.85	16.31	24.19	-7.22
+/- Index	(0.26)	(0.23)	(0.30)	(0.36)	(0.37)	(0.28)	(0.23)	(0.43)	(0.17)	(0.73)	(0.22)	(0.08)
US Fund Target-Date 2040	24	30	43	59	31	23	N/A	33	78	39	44	32
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2045 Trust II	-3.42	8.11	17.73	5.79	5.93	7.68	8.17	-17.33	16.33	16.27	25.07	-7.86
Vanguard Retirement 2045 Index	-3.15	8.35	17.98	6.14	6.30	7.96	8.40	-16.84	16.45	17.03	25.36	-7.77
+/- Index	(0.27)	(0.24)	(0.25)	(0.35)	(0.37)	(0.28)	(0.23)	(0.49)	(0.12)	(0.76)	(0.29)	(0.10)
US Fund Target-Date 2045	18	26	31	39	24	16	N/A	30	61	35	36	39
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2050 Trust II	-3.48	8.50	18.52	5.98	6.05	7.74	8.21	-17.45	16.60	16.42	25.05	-7.83
Vanguard Retirement 2050 Index	-3.20	8.74	18.72	6.33	6.42	8.02	8.44	-17.07	16.77	17.18	25.36	-7.77
+/- Index	(0.28)	(0.24)	(0.20)	(0.35)	(0.37)	(0.28)	(0.23)	(0.38)	(0.17)	(0.76)	(0.31)	(0.06)
US Fund Target-Date 2050	20	23	25	36	22	15	N/A	28	62	35	42	32

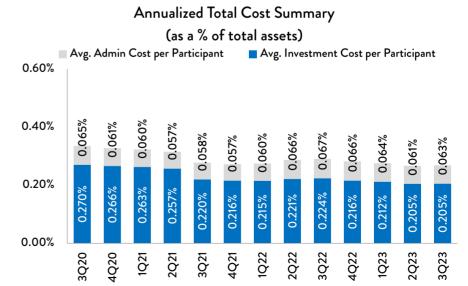
				F	Annualize	nd .						
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2055 Trust II	-3.48	8.50	18.52	5.98	6.05	7.72	-	-17.44	16.59	16.41	25.07	-7.85
Vanguard Retirement 2055 Index	-3.20	8.74	18.72	6.33	6.42	8.02	-	-17.07	16.77	17.18	25.36	-7.77
+/- Index	(0.28)	(0.24)	(0.20)	(0.35)	(0.37)	(0.30)	-	(0.37)	(0.18)	(0.76)	(0.29)	(0.09)
US Fund Target-Date 2055	19	26	30	44	22	19	N/A	25	68	38	43	34
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2060 Trust II	-3.48	8.51	18.54	5.99	6.07	7.74	-	-17.41	16.56	16.50	25.09	-7.85
Vanguard Retirement 2060 Index	-3.20	8.74	18.72	6.33	6.42	8.02	-	-17.07	16.77	17.18	25.36	-7.77
+/- Index	(0.28)	(0.23)	(0.18)	(0.34)	(0.35)	(0.28)	-	(0.34)	(0.21)	(0.68)	(0.27)	(0.09)
US Fund Target-Date 2060	19	31	29	48	24	11	N/A	24	73	38	48	30
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2065 Trust II	-3.49	8.49	18.51	5.97	6.08		-	-17.40	16.54	16.45	25.11	-7.70
Vanguard Retirement 2065 Index	-3.20	8.74	18.72	6.33	6.42	-	-	-17.07	16.77	17.18	25.36	-7.77
+/- Index	(0.29)	(0.25)	(0.21)	(0.36)	(0.34)	-	-	(0.33)	(0.23)	(0.73)	(0.25)	0.07
US Fund Target-Date 2065+	20	34	36	40	20	-	N/A	18	64	51	59	-
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2070 Trust II	-3.46	8.51	18.60				-	-				-
Vanguard Retirement 2070 Index	-3.20	8.74	18.72	-	-	-	-	-	-	-	-	-
+/- Index	(0.26)	(0.23)	(0.12)	-	-	-	-	-	-	-	-	-
US Fund Target-Date 2065+	17	33	35	-	-	-	N/A	-	-	-	-	-

Section 4









^{*}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.

Third Quarter 2023

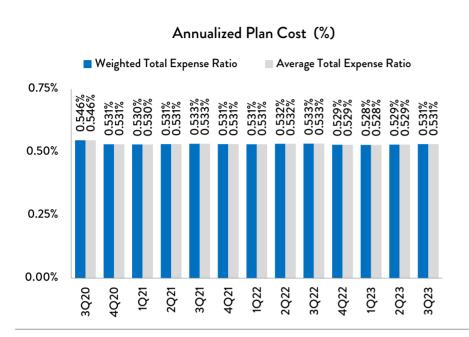
Annualized

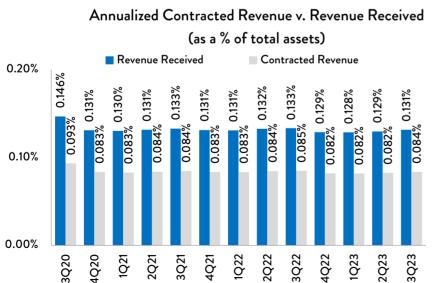
		Quarter End			Est. Total Invest.	Est. Total Admin.
Fund	Ticker	Balance	Net Expense Ratio	Admin Fee	Cost	Cost
Voya Fixed Account	-	\$327,537,850	0.400%	0.06%	\$1,310,151	\$206,200
Vanguard Total Bond Market Index I	VBTIX	\$34,836,325	0.035%	0.06%	\$12,193	\$21,931
Sterling Capital Total Return Bond R6	STRDX	\$1,897,058	0.350%	0.06%	\$6,640	\$1,194
MFS Value R4*	MEIJX	\$20,212,092	0.400%	0.06%	\$80,848	\$12,724
Vanguard Institutional Index Instl Plus	VIIIX	\$141,143,490	0.020%	0.06%	\$28,229	\$88,856
JPMorgan Large Cap Growth R6	JLGMX	\$65,793,240	0.440%	0.06%	\$289,490	\$41,420
Vanguard Mid-Cap Value Index Adm	VMVAX	\$6,955,922	0.070%	0.06%	\$4,869	\$4,379
Vanguard Extended Market Index Instl Plus	VEMPX	\$94,469,752	0.040%	0.06%	\$37,788	\$59,473
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$20,211,453	0.070%	0.06%	\$14,148	\$12,724
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$43,018,913	0.080%	0.06%	\$34,415	\$27,082
American Funds EuroPacific Growth R6	RERGX	\$6,266,510	0.470%	0.06%	\$29,453	\$3,945
Vanguard Target Retirement Income Trust II	-	\$38,638,308	0.075%	0.06%	\$28,979	\$24,325
Vanguard Target Retirement 2020 Trust II	-	\$11,447,025	0.075%	0.06%	\$8,585	\$7,206
Vanguard Target Retirement 2025 Trust II	-	\$43,212,738	0.075%	0.06%	\$32,410	\$27,204
Vanguard Target Retirement 2030 Trust II	-	\$16,020,138	0.075%	0.06%	\$12,015	\$10,085
Vanguard Target Retirement 2035 Trust II	-	\$52,689,691	0.075%	0.06%	\$39,517	\$33,171
Vanguard Target Retirement 2040 Trust II	-	\$9,386,735	0.075%	0.06%	\$7,040	\$5,909
Vanguard Target Retirement 2045 Trust II	-	\$28,290,282	0.075%	0.06%	\$21,218	\$17,810
Vanguard Target Retirement 2050 Trust II	-	\$6,512,439	0.075%	0.06%	\$4,884	\$4,100
Vanguard Target Retirement 2055 Trust II	-	\$8,257,742	0.075%	0.06%	\$6,193	\$5,199
Vanguard Target Retirement 2060 Trust II	-	\$2,696,288	0.075%	0.06%	\$2,022	\$1,697
Vanguard Target Retirement 2065 Trust II	-	\$1,257,833	0.075%	0.06%	\$943	\$792
Vanguard Target Retirement 2070 Trust II	-	\$305,149	0.075%	0.06%	\$229	\$192
Self-Directed Brokerage Account	-	\$10,101,817	-	0.06%	-	\$6,360
TOTAL		\$991,158,791			\$2,012,260	\$623,979

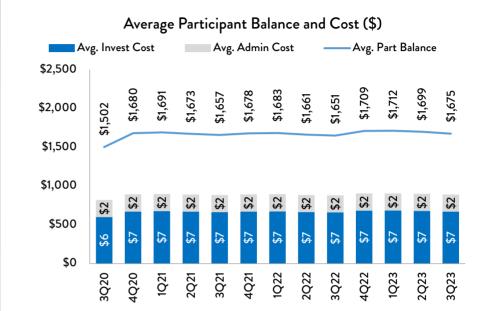
Plan Administration Cost	Quarter	Annualized
Plan Generated Revenue (\$41.00 per ppt with >\$1,000 bal) (est):	\$155,995	\$623,979
Contracted Revenue (\$14.50 per participant) (est):	\$60,777	\$243,107
Net Excess/(Deficit) (est):	\$95,218	\$380,872

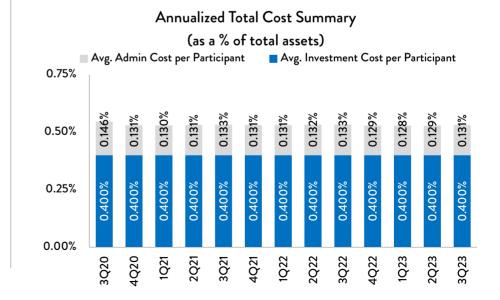
^{*}Revenue derived from funds credited to participant accounts in which they are held. For fee reporting purposes, the credit has been used to offset the reported fund expense ratio. An expense ratio of 0.40% was assumed for the Voya Fixed Account.

FICA Alternative OBRA Plan









STATE OF NEVADA

FICA Alternative OBRA Plan

PLAN FEE ANALYSIS

Third Quarter 2023

Annualized

Fund	Ticker	Quarter End Balance	Net Expense Ratio	Admin Fee	
Voya Fixed Account - FICA	-	\$62,315,250	0.40%	0.13%	
TOTAL		\$62,315,250			

Est. Total Invest.	Est. Total Admin.
Cost	Cost
\$249,261	\$81,849
\$249,261	\$81,849

Plan Administration Cost	Quarter	Annualized
Plan Generated Revenue (\$2.20 per participant) (est):	\$20,462	\$81,849
Contracted Revenue (\$1.40 per participant) (est):	\$13,021	\$52,086
Net Excess/(Deficit) (est):	\$7,441	\$29,763

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

Section 5

(USD) American Funds Europacific Growth R6

Growth

US Fund Foreign Large Morningstar Cat

American Funds Europacífic Growth R6 20,428
 Category Average
 18,731
 Standard Index
 17,132

Growth of \$10,000

Performance 10-31-2023	31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2021	-0.43	6.97	-2.35	-1.13	2.84
2022	-12.24	-14.65	-9.33	13.78	-22.72
2023	9.87	2.16	-6.33	1	1.85
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	10.43	-0.67	4.45	3.93	6.95
Std 09-30-2023	19.64		3.11	4.64	7.23
Total Return	10.43	-0.67	4.45	3.93	6.95
+/- Std Index	-1.64	-3.70	0.99	1.39	1
+/- Cat Index	1.25	1.91	0.70	0.75	
% Rank Cat	45	45	44	40	
No. in Cat	414	383	332	229	

1.75	1.75	30-day SEC Yield 09-30-23
l		7-day Yield
Unsubsidized	Subsidized	

NAV/Price

Investment Style Equity/Stocks %

+/- Standard Index Total Return %

+/- Category Index

Performance Quartile (within category)

No. of Funds in Cat % Rank Cat

(if applicable) Morningstar metrics.
The performance data quoted represents past performance and 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 principal value of an investment will fluctuate; thus an investor's their original cost. shares, when sold or redeemed, may be worth more or less than

month-end, please call 800-421-4225 or visit quoted herein. For performance data current to the most recent Current performance may be lower or higher than return data

www.americanfunds.com Fees and Expenses

Management Fees % Fund Expenses Deferred Load % Front-End Load % 0.42 ₹ ₹

12b1 Expense %			NA
Net Expense Ratio %			0.47
Gross Expense Ratio %			0.47
Risk and Return Profile			
	3 Yr	5 Yr	10 Yr
	383 funds	332 funds	229 funds
Morningstar Rating™	3 ★	3★	3★
Morningstar Risk	-Avg	Avg	Avg
Morningstar Return	Avg	Avg	Avg
	3 Yr	5Yr	10 Yr
Standard Deviation	19.11	18.98	15.50
Mean	-0.67	4.45	3.93
Sharpe Ratio	-0.06	0.22	0.25

Alpha

R-Squared

-3.50 1.07 94.04

Best Fit Index Morningstar Gbl xUS Growth TME NR USD 2.03 1.08 95.40

Potential Cap Gains Exp

1.87% 28.78%

12-Month Yield

MPT Statistics

Standard Index

2.97	41.18 19.64 2.81	2012	Morningstar Medalist Rating Sold 07-17-2023
5.09	49.03 20.58 5.29	2013	star t Rating
0.36 27 341	47.09 -2.29 1.57	2014	Analyst * 100.00 Data Co 100.00
0.77 66 361	45.32 -0.48 5.18	2015	Analyst-Driven % 100.00 Data Coverage % 100.00
0.89 20 363	45.04 1.01 -3.48	2016	
-0.84 44 399	56.14 31.17 3.98	2017	Morningstar R *** 383 US Fund Foreign Large Growth
-0.48 58 439	44.99 -14.91 -0.71	2018	Morningstar Rating** *** 383 US Fund Foreign Large Growth
0.06 59 469	55.55 27.40 5.89	2019	: :
3.06 33 447	69.30 25.27 14.61	2020	Standard Index MSCI ACWI Ex USD
-2.26 80 450	64.73 2.84 -4.99	2021	Standard Index MSCI ACWI Ex USA NR USD
0.33 38 443	49.03 -22.72 -6.72	2022	: :
3.23	49.75 1.85 0.86	10-23	Category Index MSCI ACWI EX USA Growth NR USD
z % t 🥱	P + 7 2	- 10k	lex Ex USA USD

Regional Exposure Stocks % Rel Std Index Americas 14.9 1.42 → Defensive Greater Europe 49.6 1.09 Greater Axia 35.5 0.80 Healthcare	ow B	Credit Quality Breakdown — Bond % AAA	217 mil AIA Group Ltd 1 mil MercadoLibre Inc 81 mil Cenovus Energy Inc 125 mil Fortescue Metals Group I	4 mil 40 mil 81 mil 13 mil 11 mil	Portfolio Analysis 09-30-2023 Asset Allocation % Net % Long % Short % Share Chg Share Holdings : Cash Cash 6.52 6.67 0.15 since of the Amount 369 Total Stocks , 0 Total Fixed-Inc US Stocks 2.86 2.86 0.00 62-2023 34% Turnover Ratio Non-US Stocks 90.14 90.14 0.00 62 mil Novo Nordisk A/S Class B Bonds 0.00 0.00 0.00 5 mil LVMH Moet Hennessy Louir Other/Not Clsfd 0.48 0.48 0.00 97 mil Reliance Industries Ltd Total 100.00 100.15 0.15 90 mil 168 mil Taiwan Semiconductor Mar
als 14.9 logy 14.9 ive 22.8 ive 7.4 are 14.5	cation Services	I 34.9 laterials 8.9 ner Cyclical 13.0 sl Services 12.5 atte 0.5			
1.14 1.24 1.08 0.89 1.49	1.15 0.67 1.41	0.83 1.15 1.16 0.60 0.26	1.39 1.38 1.33 1.33	2.08 2.04 1.75 1.55 1.42	Net Assets 4.49 2.71 2.16 2.15 2.12

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	07-17-2023			American Funde Morningstar A
	100.00	Data Coverage % 383 US Fund		\nalyst-Driven%
-	Foreign Large	383 US Fund	***	Analyst-Driven % Morningstar Rating ** Standard Index
		USD	MSCI ACWI Ex USA NR MSCI ACWI Ex USA	Standard Index
		Growth NR USD	MSCI ACWI Ex USA	Category Index
		Growth	US Fund Foreign Large	Morningstar Cat

Base Currency:	Objective:	Tenure:	Manager:	Family:	Operations
USD	Foreign Stock	22.4 Years	Multiple	American Funds	
Minimum IRA Purchase:	Min Auto Investment Plan:	Minimum Initial Purchase:	ISIN:	Ticker:	
\$25	\$250	\$250	US2987068218	RERGX	
	Total Assets:	Туре:	Incept:	Purchase Constraints:	
	\$127,235.29 mil	MF	05-01-2009	Α	

JPMorgan Growth R6 (USD) Large Cap

Standard Index S&P 500 TR USD

Category Index

Morningstar Cat

Data Coverage % 1,126 US Fund 100.00

OSU

Russell 1000 Growth TR US Fund Large Growth

I bankaidi aad	- Inc	O. Acidicad	,		
	808	1039	1126	1210	No. in Cat
	4	ω	46	59	% Rank Cat
	0.83	1.13	-2.64	-5.70	+/- Cat Index
ı	3.48	4.34	-4.29	3.11	+/- Std Index
14.83	14.65	15.35	6.07	13.25	Total Return
15.15	15.32	13.38	1	23.20	Std 09-30-2023
14.83	14.65	15.35	6.07	13.25	Load-adj Mthly
Incept	10 Yr	5 Yr	3 Yr	1Yr	Trailing Returns
16.05		-3.64	13.04	9.19	2023
-25.21	3.59	-1.47	-18.40	-10.21	2022
18.79	8.23	0.51	8.76	0.40	2021
Total %	4th Otr	3rd Otr	2nd Otr	1st Otr	Quarterly Returns
				-31-2023	Performance 10-31-2023

30-day SEC Yield 7-day Yield

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

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

Portfolio Analysis 09-30-2023

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please call 800-480-4111 or visit

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

₹ ₹

0.52	Gross Expense Ratio %
0.44	Net Expense Ratio %
NA	12b1 Expense %
0.45	Management Fees %
	Fund Expenses

KISK and Keturn Prome			
	3 Υr	5Yr	10 Yr
	1,126 funds 1,039 funds)39 funds	808 funds
Morningstar Rating™	3 ⊁	5≯	5≯
Morningstar Risk	-Avg	Avg	+Avg
Morningstar Return	Avg	High	High
	3 Yr	5 Yr	10 Yr
Standard Deviation	18.97	20.96	17.43
Mean	6.07	15.35	14.65
Sharpe Ratio	0.29	0.70	0.80
MPT Statistics	Standard Index	x Be Russell 1	Best Fit Index Russell 1000 Growth
Alpha	-3 79	9	-1 97
Beta	0.99	9	0.90
R-Squared	87.81		96.41
12-Month Yield			

Below B NR

-2.88 81 1681	24.09 12.37 -3.63	2012	02-21-2023
-0.45 57 1712	32.01 33.03 0.64	2013	\
-1.92 39 1710	34.94 11.13 -2.56	2014	100.0
2.27 16 1681	36.08 7.94 6.55	2015 98	
-8.81 87 1463	32.35 -1.74 -13.70	2016 99	Larg
8.16 3 1363	38.85 38.37 16.54	2017	Large Growth
2.08 22 1405	34.07 0.57 4.95	2018	\$
	42.03 39.39 7.90	2019 ————————————————————————————————————	}
3.00 17.93 4 8 1360 1289	62.44 56.42 38.02	2020 96	
-8.81 68 1237	64.84 18.79 -9.92	2021	
3.92 29 1235	46.92 -25.21 -7.10	2022	3.5
-7.15 1216	54.45 16.05 5.36	10-23 95	100k 80k 40k 20k
+/- Category Index % Hank Cat No. of Funds in Cat	NAV/Price Total Return % +/- Standard Index Performance Quartile (within category)	Investment Style Equity/Stocks %	Growth of \$10,000 JPMorgan Large Cap Growth R6 55,114 Category Average 39,561 Standard Index 41,929

						5
Asset Allocation % 08-31-2023	18-31-2023	Net %	Long %		Short %	snare ung
Cash		4.36	4.36	٠,	0.00	since
US Stocks		92.10	92.10	_	0.00	08-2023
Non-US Stocks		3.54	3.54	_	0.00	
Bonds		0.00	0.00	_	0.00	⊕
Other/Not Clsfd		0.00	0.00	_	0.00	•
Total		100.00	100.00	_	0.00	⊕
Equity Style	Portfolio Statistics	atistics	Port	Rel	Re	
Value Blend Growth	D/E Datio 1	Ţ	31 o	T lex	3 5	
ęη	r/E natio i livi	3	0.10	.00	.03	①
96.	P/C Ratio TTM	M	21.6	1.46	1.02	Ð
biM	P/B Ratio TTM	M	8.4	2.27	1.08	€
mS	Geo Avg Mkt Cap 318643	1kt Cap	318643	1.47	0.85	€ (
PI	¥3					3

3,280 mil

28 mil 34 mil 20 mil

Alphabet Inc Class C Amazon.com Inc Microsoft Corp

Holdings: 65 Total Stocks , 3 Total Fixed-Income, 42% Turnover Ratio

Net Assets %

10.12

6.97

5.89 5.22

4.98

10 mil

Meta Platforms Inc Class A

JPMorgan Prime Money Market Inst

18 mil

Apple Inc

7 mil

NVIDIA Corp

4 mil 5 mil 7 mil

Mastercard Inc Class A

Eli Lilly and Co

Tesla Inc

4 mil

Netflix Inc

2.37 2.40 2.89

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pey	Avg Wtd Price	
мод		
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AA		

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Duality				Mod Ext	ncome Style	
Break	MOγ	beM	ЧбіН]~	Style	ller
Quality Breakdown —		Avg Wtd Price	Avg Eff Duration Avg Wtd Coupon	Avg Eff Maturity		\$mil
Bond %				1		
 	Sector	•	(Ð		Œ

1.70	lical 18.3	Consumer Cyclical
0.33	ls 0.7	Basic Materials
0.87	23.9	∿ Cyclical
Rel Std Index	Stocks %	Sector Weightings
	7	
1.77	11 mil Oracle Corp	⊕ 11 mil
1.79	24 mil Uber Technologies Inc	24 mil
2.08	Broadcom Inc	⊕ 2 mil
2.37	Regeneron Pharmaceuticals Inc	2 mil

Sector Weightings	Stocks %	Rel Std Index
ე Cyclical	23.9	0.87
∴ Basic Materials	0.7	0.33
Consumer Cyclical	18.3	1.70
Financial Services	4.9	0.40
Real Estate	0.0	0.00
₩ Sensitive	61.6	1.23
Communication Services	14.3	1.65
♦ Energy	1.3	0.28
ndustrials	4.6	0.56
Technology	41.4	1.44
→ Defensive	14.5	0.65
Consumer Defensive	1.5	0.22
◆ Healthcare	13.1	0.99
Utilities	0.0	0.00

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III Rights Reserved. Unless otherwise pro- tein (1) include the confidential and propo- tor the copied or redskribtued, (4) do not of teed to be correct, complete or accurate. E- tred to be oprious or their use. Opinious et yiese or opinious or their use. Opinious et ted to, Morningstar Research Services LU rospectus, or equivalent, and disclosure:	Growth	19.3 Years	Multiple	JPMorgan
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t only in the country in which its of a derived from, account informat lare provided salely for informat have provided salely for informat hot be responsible for any trading thange without notice. Investment Exchange Commission. This of this report.	: \$15 mil	US48121L8413	JLGMX	USD
riginal distributor is based. The information, data, a non provided by your financial professional which can oneal purposes and therefore are not an offer to buy yo glecisions, damages or other losses resulting from, I't research is produced and issued by subsidiaries of eport is supplemental sales fiterature. If applicable eport is supplemental sales fiterature.	Total Assets:	Туре:	Incept:	Purchase Constraints:
nalyses and not be verified by rot be verified by real la security, yr related to, this Morningstar, Inc. must be preceded	\$65,307.78 mil	MF	11-30-2010	A

Operations

Potential Cap Gains Exp

28.55%

Greater Asia Greater Europe

Americas Regional Exposure

Stocks %

Rel Std Index

99.4 0.6 0.0

4.79 3.18 2.90

MFS Value R4 (USD)

Unsubsidized	Unsı	Subsidized	Sı		
	825	1086	1138	1217	No. in Cat
	34	42	77	52	% Rank Cat
	0.54	0.93	-0.69	0.07	+/- Cat Index
	-3.04	-3.49	-0.84	-9.94	+/- Std Index
7.87	8.14	7.53	9.52	0.20	Total Return
8.02	8.77	6.86		12.20	Std 09-30-2023
7.87	8.14	7.53	9.52	0.20	Load-adj Mthly
Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
-3.05		-3.23	3.60	-1.46	2023
-5.90	13.58	-4.58	-9.91	-3.64	2022
25.42	8.57	0.65	5.63	8.66	2021
Total %	4th Otr	3rd Otr	2nd Otr	1st Otr	Quarterly Returns
)-31-2023	Performance 10-31-2023

Performance Disclosure 1. Contractual waiver; Expires 12-31-2023

30-day SEC Yield 08-31-23

1.79

1.78

7-day Yield

(if applicable) Morningstar metrics.
The performance data quoted represents past performance and 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 principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than their original cost.

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please call 800-225-2806 or visit http://www.mfs.com.

Deferred Load % Front-End Load % Sales Charges Fees and 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 5 Yr 1,138 funds 1,086 funds	5 Yr 16 funds	10 Yr 825 funds
Morningstar Rating™	2★	4⋆	4★
Morningstar Risk	-Avg	-Avg	-Avg
Morningstar Return	-Avg	Avg	Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	16.60	17.94	14.47
Mean	9.52	7.53	8.14
Sharpe Ratio	0.50	0.39	0.53
MPT Statistics	Standard Index	Be Morning Brd	Best Fit Index Morningstar US LM Brd Val TR USD
Alpha	0.26		-1.72
Beta	0.87		0.96
R-Squared	85.58		97.27
12-Month Yield			1.82%
Potential Cap Gains Exp			45.93%

AAA

Credit Quality Breakdown —

1208 1213	29 13	-1.09 3.28		0.41 3.42	16.42 35.81	25.35 33.20	98 99	2012 2013					08-02-2023	G Gold	Morningstar Medalist Rating™
1290	51	-2.89		-3.12	10.57	34.94	99	2014					100.00	Data C	Analyst 100.00
1378	12	3.29		-1.92	-0.54	32.79	99	2015		}				Data Coverage %	Analyst-Driven % Morningstar Rating
1268	52	-3.20		2.18	14.14	36.05	99	2016					Larç	% 1,13	% Mor
1260	30	4.08		-4.09	17.74	40.56	99	2017					Large Value	1,138 US Fund	Morningstar ★★★★
1244	8	-1.60		-5.49	-9.87	35.30	99	2018						nd	Rating
1209	9	3.54		-1.40	30.08	44.42	99	2019		}					
1200	39	1.11		-14.49	3.91	44.83	99	2020		1					Standard Index S&P 500 TR USD
1207	58	0.26		-3.29	25.42	54.34	99	2021							SD C
1229	52	1.63		12.21	-5.90	47.47	99	2022			**			USD	Cate Russ
1229	ı	-1.26		-13.74	-3.05	45.40	99	10-23	10k	20k	4 _k	80k			Category Index Russell 1000 Value TR
No. of Funds in Cat	% Rank Cat	+/- Category Index	Performance Quartile (within category)	+/- Standard Index	Total Return %	NAV/Price	Equity/Stocks %	Investment Style		Standard Index 41,929	32,567 — Category Average 29 041	Growth of \$10,000 MFS Value R4			Morningstar Cat

Portfolio Analysis 09-30-2023	is 09-30-2023						
Asset Allocation %	Net %	Long %	Short %	Share Chg	Share	Holdings:	Net Assets
Cash	0.72	0.72	0.00	since	Amount	72 Total Stocks , 0 Total Fixed-Income,	%
US Stocks	91.57	91.57	0.00	C207-00		12% Tulliover naud	
Non-US Stocks	7.71	7.71	0.00	1	16 m.l	JPMorgan Chase & Co	4.22
Bonds	0.00	0.00	0.00	1	6 mil	The Cigna Group	2.98
Other/Not Clsfd	0.00	0.00	0.00	1	13 mil	ConocoPhillips	2.96
Total	100 00	100 00	0 :	①	35 mil	Comcast Corp Class A	2.81
		000	6	1	8 mil	Marsh & McLennan Companies Inc	2.71
Equity Style	Portfolio Statistics	Port Kel Avg Index	Cat He	1	4 mil	Aon PLC Class A	2.64
ISJ.	P/E Ratio TTM	18.0 0.87	1.20	1	10 mil	Progressive Corp	2.56
96.	P/C Ratio TTM	12.5 0.85	1.16	1	8 mil	Johnson & Johnson	2.42
P!W			1.17	① (McKesson Corp	2.32
llem2	\$mil	3ZZUU U.43	0.00	①	3 mil	Northrop Grumman Corp	2.30
				1	6 mil	Lowe's Companies Inc	2.13
Fixed-Income Style	Avec Tee Matricity			①	6 mil	Chubb Ltd	2.13
Ltd Mod Ext	Avg Eff Direction			1	4 mil	Accenture PLC Class A	2.09
чбің	Avg Wtd Colinon			1	5 mil	Union Pacific Corp	1.96
peM	Avg Wtd Price			•	31 mil	Pfizer Inc	1.91

	Sector Weightings	Stocks %	Rel Std Index
2	Դ Cyclical	34.4	
Bond %	Basic Materials	3.7	
	Consumer Cyclical	3.5	
	Financial Services	25.0	
	Real Estate	2.1	0.89
	₩ Sensitive	33.2	
1	☐ Communication Services	3.9	
	♠ Energy	5.7	
	ndustrials	15.4	
Rel Std Index	Technology	8.2	0.29
n qa	→ Defensive	32.5	
13.57	Consumer Defensive	7.8	1.18
0.00	◆ Healthcare	17.0	
	Utilities	7.7	3.08

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recompanied by a prospective or equivalent, and disclosure statement. Please see important disclosures at the end of this report

Tenure: Objective: Manager: Family: Operations

Multiple 17.5 Years Growth

Ticker:

Base Currency:

Greater Asia

Greater Europe Americas Regional Exposure

Stocks % 92.8 0.0

ISIN:

Minimum Initial Purchase:

US55273H6356 \$0 MEIJX USD

> Type: Incept:

Purchase Constraints:

Total Assets:

\$54,330.81 mil

04-01-2005

MFS

Bloomberg US Agg

Category Index

Bond TR USD

Core Bond US Fund Intermediate Morningstar Cat

60, 80, 60,

Growth of \$10,000

Sterling Capital Total Return
 Bond R6
 12,125

Return Bond R6 (USD) Sterling Capital Total

Performance 10-31-2023	31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2021	-3.00	2.16	0.04	-0.26	-1.12
2022	-6.15	-4.69	-4.42	1.57	-13.15
2023	3.01	-0.53	-3.08		-2.36
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	1.02	-5.06	0.42	1	0.19
Std 09-30-2023	0.88		0.61		0.49
Total Return	1.02	-5.06	0.42	1.40	0.19
+/- Std Index	0.66	0.51	0.48	0.51	1
+/- Cat Index	0.66	0.51	0.48	0.51	
% Rank Cat	29	24	17	9	
No. in Cat	468	423	383	278	

	024	1. Contractual waiver; Expires 01-31-2024
4.35	4.42 1	30-day SEC Yield 09-30-23
1	0.46 1	7-day Yield 11-06-23
Unsubsidized	Subsidized	

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.

453

472

No. of Funds in Cat % Rank Cat

40

-0.14

0.40

+/- Category Index Performance Quartile (within category) -13.15

-2.368.70

Total Return %

NAV/Price

2022

99

Fixed-Income/Bond %

nvestment Style

10-23

4

<u>,</u> . 20k \$

Category Average 11,405Standard Index 11,256

98

-0.14 9.18

0.40

+/- Standard Index

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

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

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

Front-End Load % Deferred Load %			N N
Fund Expenses			
Management Fees %			0.25
12b1 Expense %			0.00
Net Expense Ratio %			0.35
Gross Expense Ratio %			0.48
Risk and Return Profile			
	3 Yr	5Yr	10 Yr
!	423 funds	383 funds	278 funds
Morningstar Rating [™]	4⋆	4 ★	5☆

Fund Expenses			
Management Fees %			0.25
12b1 Expense %			0.00
Net Expense Ratio %			0.35
Gross Expense Ratio %			0.48
Risk and Return Profile			
	3 Yr 423 funds	5 Yr 383 funds	10 Yr 278 funds
Morningstar Rating™	4*	4	5 ☆
Morningstar Risk	-Avg	Avg	-Avg
Morningstar Return	+Avg	+Avg	High
	3 Yr	5Yr	10 Yr
Standard Deviation	5.86	5.61	4.34
Mean	-5.06	0.42	1.40
Sharpe Ratio	-1.22	-0.23	0.05
MPT Statistics	Standard Index	Univ	Best Fit Index Bloomberg US Universal TR USD
Alpha	-0.04	94	-0.49
Beta	0.93	93	0.94
R-Squared	97.36	36	97.69
12-Month Yield			3.71%
Potential Cap Gains Exp			-19.17%

3 | 10 3 10

\ I = = >

Greater Europe Greater Asia

Utilities

Americas Regional Exposure

Rel Std Index

0.00

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88 88

6.14 -0.97 1.93 1.05 1.93 1.05 1.93 1.05	2012 2013		Ned on pre-inception returns. Please read disclosure for more information Morningstar Analyst-Driven Morningstar Rating Standar Medalist Rating 10.00 ***** Bloomb Neultrul Data Coverage 423 US Fund Bond TF 09-30-2023 100.00 Intermediate Core Bond
5.99 0.03	2014		Analysi * 10.00 Data Co 100.00
0.54 -0.01 -0.01	2015		returns. Please rea Analyst-Driven % 10.00 Data Coverage % 100.00
3.75	2016	\	read discle Morn ★★ 423 L Interr Bond
4.33 0.79	2017		disclosure for more Morningstar Rating **** 423 US Fund Intermediate Core Bond
10.22 -0.27 -0.28 -0.28	2018		Morningstar Rating **** #23 US Fund Intermediate Core Bond
10.82 9.37 0.65 ————————————————————————————————————	2019	1	Standa Standa Bloom Bond
11.35 9.35 1.84 1.84 1.84 1.84	2020		ormation. Standard Index Bloomberg US Agg Bond TR USD
10.87 -1.12 0.42 0.42 0.42 23	2021	1	S Agg

Portfolio Analysis 09-30-2023	s 09-30-2023						
Asset Allocation %	Net %	Long %	Short %	Share Chg	Share Amount	Holdings: O Total Stocks 284 Total Fixed-Income	Net Assets %
IIS Stocks	0.32	0 9	0.00	08-2023		48% Turnover Ratio	
Non-US Stocks	0.00	0.00	0.00	①	93 mil	United States Treasury Notes 4.125%	8.91
Bonds	98.80	98.80	0.00	•	68 mil	United States Treasury Bonds 2.5%	4.62
Other/Not Clsfd	0.27	0.27	0.00	1	39 mil	United States Treasury Bonds 1.375%	1.90
Total	100.00	100.01	0.01		21 mil	ONEMAIN FINANCIAL ISSUANCE TRUST 1	1.80
2		- 1	-		16 mil	HERTZ VEHICLE FINANCING III LLC 1.	1.37
Leguity Style	Portollo Statistics	Avg Index	x Cat	1	15 mil	Fnma Pass-Thru I	1.29
die 7	P/E Ratio TTM		İ	⊕	13 mil	ONEMAIN DIRECT AUTO RECEIVABLES TR	1.28
biM e	P/B Ratio TTM			1	12 mil	Federal Home Loan Mortgage Corpora	1.08
llsm2	Geo Avg Mkt Cap \$mil			① (11 mil	United States Treasury Notes 2.625%	1.01
				1	10 mil	Federal Home Loan Mortgage Corpora	0.95
Fixed-Income Style	Ava Eff Maturity		9 8		11 mil	FORD CREDIT AUTO OWNER TRUST 1.53%	0.93
Ltd Mod Ext	Avg Eff Duration		6.24	1	12 mil	Federal National Mortgage Associat	0.92
чб	Avg Wtd Coupon		3.77	1	10 mil	Fnma Pass-Thru l	0.92
baM	Avg Wtd Price		88.32	1	9 mil	Federal Home Loan Mortgage Corpora	0.91
мод				Sector Weightings	ghtings	Stocks %	Rel Std Index
Cradit Quality Broak	down 00-30-2022		Rond %	Դ Cyclical	cal	ı	ı
AAA	(00441 03-30-2023		66.18	Basic	Basic Materials		I
AA			9.15	Consu	Consumer Cyclical	lical —	1
A			12.97	Finan	Financial Services	ices —	
				Roal Fetato	2+0+0		

Œ	3 IIII Tedelai Hollie Eoali Moligage coi bola		
Sector Weightings	itings Stocks %	% Rel Std Index	ndex
∿ Cyclical	-	1	
🗻 Basic N	Basic Materials -		
♪ Consum	Consumer Cyclical -		
Financia	Financial Services -		
Real Estate	tate -	l	-
₩ Sensitive	ve .	I	
Commu	Communication Services -		
Energy		l	
Industrials	als -	I	
Technology	ogy -		
→ Defensive	ive .	ı	
Consum	Consumer Defensive -		
Healthcare	are -		

11.48 0.04 0.17

d to, this	ecurity,	erified by	nd
			M) DIIIIOOTAD ®

Sterling Capital Total Return Bond R6 (USD)

Morningstar Analyst-Driven % Morningstar Rating™
Medalist Rating™ 10.00 ★★★★
NeuTral Data Coverage % 423 US Fund
09-30-2023 100.00 Intermediate Core

Bond

Intermediate Core

Bond TR USD

Bloomberg US Agg

Standard Index

Bloomberg US Agg Bond TR USD Category Index

Core Bond US Fund Intermediate Morningstar Cat

Base Currency:	Objective:	Tenure:	Manager:	Family:
USD	Growth and Income	15.8 Years	Multiple	Sterling Capital Funds
Purchase Constraints:	Min Auto Investment Plan:	Minimum Initial Purchase:	ISIN:	Ticker:
A	\$10 mil	\$10 mil	US85918D6242	STRDX
		Total Assets:	Туре:	Incept:
		\$1,289.94 mil	MF	02-01-2018

(USD) Market Index InstIPlus Vanguard Extended

Fellolliding 10-01-2020	-202-10-				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2021	7.79	7.12	-3.27	0.70	12.48
2022	-9.33	-20.67	-2.73	5.11	-26.45
2023	5.85	6.46	-3.34	1	2.12
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-1.12	2.33	5.41	6.94	8.51
Std 09-30-2023	14.50		4.54	7.94	9.12
Total Return	-1.12	2.33	5.41	6.94	8.51
+/- Std Index	-11.26	-8.03	-5.60	-4.23	
+/- Cat Index	-0.11	-3.71	-1.73	-1.11	
% Rank Cat	50	8	78	60	
No. in Cat	421	385	359	239	

Performance Disclosure

30-day SEC Yield 11-03-23

7-day Yield

Subsidized — 1.43

Unsubsidized 1.34

113.18

154.84 38.43

164.36

100

100

100

2012

2013

2014

2015

2016

2017

2018

2019

2020

2021

2022

18.52 2.52

7.60

6.04

-6.09

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.

3.67 18 399

59 369

-5.62

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

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please call 888-809-8102 or visit www.vanguard.com.

Fees and Expenses

Deferred Load % Front-End Load % Sales Charges

2 2	Net Expense Ratio % Gross Expense Ratio %
	12b1 Expense %
0	Management Fees %
	Fund Expenses

-3.83%			Potential Cap Gains Exp
1.57%			12-Month Yield
97.09		79.02	R-Squared
0.99		1.12	Beta
2.58		-7.86	Alpha
Morningstar US Sml Brd Grt Ext TR USD		oranidana mass	WII - Continuos
Rest Fit Index		Standard Index	MPT Statistics
0.38	0.26	0.11	Sharpe Ratio
6.94	5.41	2.33	Mean
19.13	24.09	22.54	Standard Deviation
10 Yr	5 Yr	3 Yr	
Avg	-Avg	Low	Morningstar Return
+Avg	High	High	Morningstar Risk
2★	2★	→	Morningstar Rating [™]
239 funds	359 funds		
10 Yr	5 4,	3 Yr	
			Risk and Return Profile
0.04			Gross Expense Ratio %
0.04			Net Expense Ratio %
NA			12b1 Expense %
0.03			Management Fees %

Below B NR

BB

 \mathbb{R} AAA

Credit Quality Breakdown

Greater Asia Greater Europe

Americas Regional Exposure

Stocks %

98.9 0.9 0.2

08-07-2023 Morningstar Analyst-Driven Morningstar Rating Analyst-Driven ** Medalist Rating 100.00 ** BT001Ze Data Coverage % 385 US Fund Mid-







Standard Index S&P 500 TR USD



Russell Mid Cap TR

Category Index US Fund Mid-Cap Blend Morningstar Cat

:: 100k		

:101	·· 20k	40k	60k	: 80k Gro
Standard Index 41,929	Category Average 27,728	Index InstIPlus 30,408	Vanguard Extended Market	Growth of \$10,000

07	10-23	4k	10k		20k
Investment Style Equity/Stocks %			41,929	— Standard Index	27,728

No. of Funds in Cat	421			407	404	464	443	427	432	
% Rank Cat	1	ı	ı	_	36	ಜ	29	37	45	
+/- Category Index	3.40	-9.14	15.14 -10.10	15.14	-2.48	-0.29	-0.39	2.38	-0.79	
Performance Quartile (within category)										
+/- Standard Index	-8.57	-8.34	-16.23	13.84	-3.42	-4.96	-3.70	4.22	-4.62	
	2.12	-26.45		32.24	28.07	-9.35	18.13	16.18	-3.23	
NAV/Price	251.57	248.85		307.84 342.27	186.80 235.94	186.80	209.16	179.47 209.16	156.89	
Investment Style Equity/Stocks %	97	97	97	100	97	97	98	98	1 ■	

Portfolio Analysis 09-30-2023	s 09-30-2023						
Asset Allocation %	Net %	Long %	Short %	Share Chg	Share	Holdings:	Net
Cash	2.54	2.54	0.00	since	Amount	3,596 Total Stocks , 0 Total Fixed-Income ,	
US Stocks	95.94	95.94	0.00	08-2023	3	11% lumover Ratio	
Non-US Stocks	1.51	1.51	0.00	•	IIM 67	Uber Lechnologies Inc	
Bonds	0.00	0.00	0.00	⊕	4 mil	Snowflake Inc Ordinary Shares - Cl	
Other/Not Clsfd	0.00	0.00	0.00	⊕	12 mil	Marvell Technology Inc	
Total	100.00	100.00	0.00	1	2 m.i	Lululemon Athletica Inc	
Equity Style	Portfolio Statistics	Port Re	Be I	0		eromacy mo oracous	
Value Blend Growth	D/T Datio TTM			1		Cheniere Energy Inc	
блед	P/E Ratio I IIVI			(KKR & Co Inc Ordinary Shares	
W els	P/C Ratio I IM			⊕	6 mil	Apollo Global Management Inc Class	
P!W	F/B haud I IIVI			①	3 mil	CrowdStrike Holdings Inc Class A	
llem2	\$mil	0.03	0.00	•	3 mil	VMware Inc Class A	
				•	6 mil	The Trade Desk Inc Class A	
Fixed-Income Style	A TEE Maturity			1	3 mil	Ferguson PLC	
Ltd Mod Ext	Avg Eff Duration			⊕	2 mil	Atlassian Corp A	
цбіј	Avg Wtd Coupon			⊕	27 mil	27 mil Palantir Technologies Inc Ordinary	
beM	Avg Wtd Price		I	⊕	2 mil	2 mil Seagen Inc Ordinary Shares	

	5.30	1.75	0 99	Rel Std Index	1			1	1			- N	Donal o/		I					0.03 0.33				t Rel Rel J Index Cat
Utilities	Healthcare	Consumer Defensive	→ Defensive	Technology	Industrials	Energy	Communication Services	₩ Sensitive	★ Real Estate	Financial Services	Consumer Cyclical	Basic Materials	∿ Cyclical	Sector Weightings	⊕ 2 mil	⊕ 27 mil	⊕ 2 mil	① 3 mil	⊕ 6 mil	⊕ 3 mil	⊕ 3 mil	⊕ 6 mil	⊕ 9 mil	① 3 mil
		fensive					on Services			ices	lical	ls			Seagen Inc Ordinary Shares	Palantir Technologies Inc Ordinary	Atlassian Corp A	Ferguson PLC	The Trade Desk Inc Class A	VMware Inc Class A	CrowdStrike Holdings Inc Class A	Apollo Global Management Inc Class	KKR & Co Inc Ordinary Shares	Cheniere Energy Inc
1.7	12.1	3.2	17.0	23.1	15.7	5.2	3.9	47.9	6.4	13.8	11.3	3.7	35.1	Stocks %	Shares	s Inc Ordinary			Class A		s Inc Class A	gement Inc Class	ry Shares	
0.70	0.92	0.48	0.76	0.80	1.91	1.16	0.45	0.96	2.72	1.12	1.05	1.68	1.27	Rel Std Index	0.48	0.50	0.50	0.54	0.57	0.59	0.61	0.64	0.65	0.65

Operations					
Family:	Vanguard	Base Currency:	USD	Purchase Constraints:	1
Manager:	Multiple	Ticker:	VEMPX	Incept:	01-14-2011
Tenure:	25.9 Years	ISIN:	US9229083715	Туре:	MF
Objective:	Growth	Minimum Initial Purchase:	\$100 mil	Total Assets:	\$79,074.35 mil
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information, data, analy	ses or opinions or their use. Opinions ex	information, data analyses or opinions, or their use of source in the control of	ange without notice. Investm	ent research is produced and issued by subsidiary ires of V ent research is produced and issued by subsidiary in a standard in the same of	Norningstar, Inc.

or accompanied by a prospectus, or equivalent, and disclosure statement. Please see important disclosures at the end of this report

1.53 0.78 0.75 0.75 0.72

Vanguard Institutional index Insti PI (USD)

	8	-	1 0	- 1	0.00
	885	1188	1298	1428	No in Cat
	œ	18	29	26	% Rank Cat
	0.29	0.29	0.82	0.64	+/- Cat Index
	-0.01	-0.01	-0.02	-0.02	+/- Std Index
7.98	11.16	11.00	10.34	10.12	Total Return
8.09	11.90	9.90	I	3 21.60	Std 09-30-2023
7.98	11.16	11.00	10.34	10.12	Load-adj Mthly
Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
10.68		-3.27	8.74	7.49	2023
-18.13	7.55	-4.89	-16.11	-4.61	2022
28.69	11.02	0.57	8.54	6.18	2021
Total %	4th Otr	3rd Otr	2nd Otr	1st Otr	Quarterly Returns
				10-31-2023	Performance 10-31-2023

30-day SEC Yield 11-03-23 Performance Disclosure 7-day Yield Subsidized 1.60 Unsubsidized

1.57

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

(if applicable) Morningstar metrics.

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

com

Asse Cas US: Non Bon Oth

Sales Charges

Equi

Tota

Fees and Expenses
month-and places call 888-809-8102 or vicit www.vanguard.c
quoted herein. For performance data current to the most recen
Canonic portorina may be touch or myner man return and

Fund Expenses Front-End Load % Deferred Load % ž Z

Fixed-Income Style

Management Fees %			0.02
12b1 Expense %			NA
Net Expense Ratio %			0.02
Gross Expense Ratio %			0.02
Risk and Return Profile			
	3 Yr 5 Yr 1,298 funds 1,188 funds	5 Yr 88 funds	10 Yr 885 funds
Morningstar Rating™	4★	4	5⊁
Morningstar Risk	Avg	Avg	Avg
Morningstar Return	+Avg	+Avg	High
	3 Yr	5 Yr	10 Yr
Standard Deviation	17.82	18.69	14.95
Mean	10.34	11.00	11.16
Sharpe Ratio	0.52	0.55	0.70
MPT Statistics	Standard Index		Best Fit Index S&P 500 TR USD
Alpha	-0.02		-0.02
Beta	1.00	_	1.00
R-Squared	100.00		100.00
12-Month Yield			1.64%

No. of Funds in Cat	1441	1358	1382	1363	1387	1402	1396	1409	1606	1568	1559	1686
% Rank Cat	1	51	23	36	23	25	28	26	20	≅	41	34
+/- Category Index	0.40	1.00	2.23	-2.56	0.06	0.38	0.13	-0.10	0.47	0.44	-0.75	-0.42
Performance Quartile (within category)												
+/- Standard Index	-0.01	-0.02	-0.02	0.01	0.00	-0.02	-0.02	-0.01	0.01	-0.01	-0.02	0.00
NAV/Price Total Return %	350.37 10.68	321.62 -18.13	405.80 28.69	331.48 18.41	290.25 31.48	227.57 -4.41	243.48 21.82	203.84	186.63	188.68 13.68	169.28 32.37	130.53 16.00
Investment Style Equity/Stocks %	100	100	100	100	100	100	1 1 1	100	10	100	100	100
	10-23	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Standard Index 41,929	10k									1	1	}
Category Average 33,829	20k			1	}		1		1	\		
Instl PI 41,882):: 40k)								
Growth of \$10,000 Vanguard Institutional Index	60k 80k 80k											
	ļ	<u> </u>		-	<u> </u>	T in	1,298 US Fund Large Blend		Data Coverage % 100.00	Data Co 100.00	- & =	02-21-2023
Morningstar Cat SD US Fund Large Blend	Category Index Russell 1000 TR USD	Cate Russ	JSD *	Standard Index S&P 500 TR USD		r Rating"	Analyst-Driven % Morningstar Rating [™] 100.00 *****		st-Drive		Morningstar Medalist Rating™	Morningstar Medalist Rat

ortfolio Analysis 09-30-2023	s 09-30-2023						
set Allocation %	Net %	Long %	Short %	Share Chg	Share	Holdings:	Net Assets
sh	0.04	0.07	0.03	since	Amount	503 Total Stocks , 0 Total Fixed-Income,	%
Stocks	99.40	99.40	0.00	U8-2U23	3	3% Luniover Rauo	1
n-US Stocks	0.56	0.56	0.00	1	11m 66	Apple Inc	/.00
nds	0.00	0.00	0.00	1	50 mil	Microsoft Corp	6.53
her/Not Clsfd	0.00	0.00	0.00	⊕	61 mil	Amazon.com Inc	3.21
<u>a</u>	100.00	100.03	0.03	1	17 mil	NVIDIA Corp	2.99
				1	40 mil	Alphabet Inc Class A	2.16
uity Style	Portfolio Statistics	Port Kel Ava Index	Cat B	Đ	19 mil	Tesla Inc	1.92
JP7	P/E Ratio TTM	-		1	15 mil	Meta Platforms Inc Class A	1.86
96	P/C Ratio I IM			1	34 mil	Alphabet Inc Class C	1.85
PiW	F/B ratio i livi	3.8 1.03	0.96	①	12 mil	Berkshire Hathaway Inc Class B	1.78
llem2	\$mil			1	27 mil	Exxon Mobil Corp	1.31
				①	6 mil	UnitedHealth Group Inc	1.30
ed-Income Style	Assa Eff Maturity			⊕	5 mil	Eli Lilly and Co	1.19
d Mod Ext	Avg Eff Direction			1	19 mil	JPMorgan Chase & Co	1.17
чвін	Avg Wtd Coupon			①	16 mil	Johnson & Johnson	1.04
beM	Avg Wtd Price			1	11 mil	11 mil Visa Inc Class A	1.03

	0.0 0.95	0.5 0.99		Stocks % Rel Std Index		ı		ı	1	ſ	I		Bond %	
Utilities		Consumer Defensive) → Defensive	- Indianal	- Industrials	→ Energy	■ Communication Services	- V~ Sensitive	Real Estate	Financial Services	Consumer Cyclical	Basic Materials	Դ Cyclical	Sector Weightings
2.4	13.4	6.5	22.3	20.1	8.2	4.7	8.9	49.9	2.4	12.3	10.9	2.2	27.8	Stocks %
0.97	1.02	0.99	1.00	0.90	1.00	1.04	1.02	1.00	1.01	1.00	1.01	1.01	1.01	Rel Std Index

Objective:	Tenure:	Manager:	Family:	Operations
Growth and Income	22.9 Years	Multiple	Vanguard	
Minimum Initial Purchase:	ISIN:	Ticker:	Base Currency:	
\$100 mil	US9220402096	VIIIX	USD	
Total Assets:	Туре:	Incept:	Purchase Constraints:	
\$235,396.06 mil	MF	07-07-1997	I	

Potential Cap Gains Exp

59.50%

Americas Regional Exposure

Greater Asia Greater Europe Below B NR

B BB BB

₿ AAA

Credit Quality Breakdown



Vanguard Institutional Total International Stock Market Index Trust

International stock fund

Fund facts

2069	06/24/16	\$22,967 MM	4 5	ω	2	_	
number	date	assets	ightarrow High			Low €	
	III caparion	- Crainer	,		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

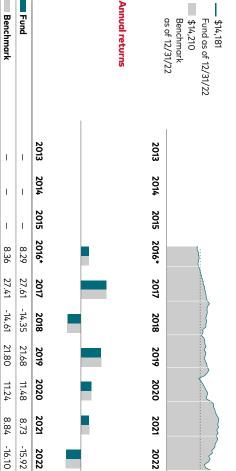
The trust portfolio employs an indexing investment approach designed to track the performance of the FTSE Global All Cap ex US Index, a free-float-adjusted

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 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

Benchmark

FTSE Global All Cap ex US Index

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



Total returns

Periods ended September 30, 2023

41

	Quarter	Year to date	One year	Three years	Five years	Since inception
Fund	-3.99%	5.17%	20.65%	3.97%	2.87%	6.16%
Benchmark	-3.33%	5.48%	20.40%	4.13%	2.86%	I

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

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

Market allocation-stocks



^{*}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	Novo Nordisk A/S
4	Samsung Electronics Co. Ltd.
5	Tencent Holdings Ltd.
6	ASML Holding NV
7	Toyota Motor Corp.
ω	Shell plc
9	Novartis AG
10	10 AstraZeneca plc

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

Top 10 as % of total net assets

Sector Diversification



Technology

Industrials Financials



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.

0.0

3.4 3.9 7.2 6.1

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Plain talk about risk

range, like the fluctuations of the overall stock market. The trust portfolio's performance could be hurt by: 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

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 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

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 may be hurt disproportionately by the poor performance of its investments in that area. Country/regional risk is especially high in emerging 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 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 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.

located in more developed foreign markets.

Note on frequent trading restrictions

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

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please call **855-402-2646**.

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

(USD) **Growth Index Admiral** Vanguard Mid-Cap

renominance 10-31-2023	-31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2021	1.25	10.25	0.16	7.76	20.48
2022	-12.32	-21.19	-2.58	5.69	-28.84
2023	8.74	5.69	-5.28		2.43
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	1.45	1.41	8.05	8.56	10.77
Std 09-30-2023	15.06		7.18	9.46	11.41
Total Return	1.45	1.41	8.05	8.56	10.77
+/- Std Index	-8.70	-8.95	-2.96	-2.61	
+/- Cat Index	-1.90	0.62	-0.03	-0.53	
% Rank Cat	37	39	29	38	
No. in Cat	556	521	493	396	

Performance Disclosure

30-day SEC Yield 11-03-23

7-day Yield

Subsidized

Unsubsidized

-0.05

-0.17

-0.21

-2.36 -0.98

0.00

16.08

-10.73 -28.84 77.37

-8.26

29.55 15.96

43.72

42.94

45.46 -5.21

51.48 -1.22 -5.60

109.55 20.48 -8.23

78.84

2.43

6.75

21.83 54.96

33.86 68.34 2.37

32.22 38.83

13.48

100

100

99

100

100

100

100

100

100

100

99

100

10-23

4

2012

2014

2017

0.77

0.15

-3.52

-0.78

-0.58

-3.44

30

83

749

617

1.58 5

5

40

65

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

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

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

US Stocks

Cash

Asset Allocation % Portfolio Analysis

Bonds

Other/Not Clsfd Non-US Stocks

Total

Fees and Expenses

Front-End Load %

Equity Style

Deferred Load %	NA
Fund Expenses	
Management Fees %	0.06
12b1 Expense %	NA
Net Expense Ratio %	0.07
Gross Expense Ratio %	0.07

Risk and Return Profile			
	3 Yr	5Yr	10 Y
	521 funds	493 funds	396 funds
Morningstar Rating™	3 ⊁	4 ★	3 ≯
Morningstar Risk	Avg	Avg	Ανς
Morningstar Return	Avg	+Avg	Ανς
	3 Yr	5 Yr	10 Y
Standard Deviation	21.69	22.01	17.53
Mean	1.41	8.05	8.56
Sharpe Ratio	0.07	0.38	0.49

Morningstar Analyst-Driven % Medalist Rating 100.00 State Coverage % 01-23-2023 521 US Fund Mid-Morningstar Rating™







S&P 500 TR USD

Standard Index

TR USD

Russell Mid Cap Growth US Fund Mid-Cap Growth Category Index Morningstar Cat















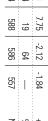


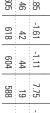
























· inde	— % Rank Cat	.84 +/- Category Index	(within category)
--------	--------------	------------------------	-------------------

(within category) +/- Category Index % Rank Cat	% Ra	+/- Catego	(with
	=	∵.∠	(within category)
		^	

Portfolio Statistics Port Hel Hel Hel Avg Index Cat (1)	1 –	0.00	0.00	1.40	0.28	Net % Long % Short % Share Chg	09-30-2023
4 mil 2 mil	2 mil 4 mil	361,594	1 mil	4 mil	Amount	Share	
4 mil Microchip Technology Inc 2 mil Hess Corp	2 mil Arista Networks Inc 4 mil Welltower Inc	TransDigm Group Inc	1 mil Motorola Solutions Inc	Amphenol Corp Class A	157 Total Stocks , 0 Total Fixed-Income, 22% Turnover Ratio	Holdings:	
1.44 1.44	1.45 1.44	1.50	1.54	1.70	%	Net Assets	

		Mod								Blend
		Ext	Income Style							Rland Growth
bəM	qбіH		e B		llen	-	biM	96.		
Avg Wtd Price	Avg Eff Duration Avg Wtd Counon	Avg Eff Maturity			\$mil	Geo Avg Mkt Cap	P/B Ratio I IM	P/C Ratio TTM	P/E Ratio TTM	
						26499	4.7	17.5	25.1	Avg
						0.12	1.28	1.19	1.21	Index
						1.43	0.95	0.90	0.93	Cat
1	1	①) (D	Œ) (D ·	1	1	①
3 mil	3 mil	s <u>≡</u>	: ا	518.232	ااان	٥ <u>ع</u>	678,307	596,496	2 mil	4 mil

ON Semiconductor Corp Old Dominion Freight Line Inc Ordi

1.41 1.37 1.36

43

Cintas Corp Hess Corp

MSCI Inc

Cheniere Energy Inc

Avg Eff Duration	

			Mod	00
			Œ.	ncome Style
гом	baM	ЧбіН		ř
	Avg Wtd Price	Avg Eff Duration Avg Wtd Coupon	Avg Eff Maturity	

Apollo Global Management Inc Class

Copart Inc

1.31 1.29 1.26 1.23 1.21





Credit Quality Breakdown —
AAA
AA
A
BBB
BB
В
Below B NR

0.2		99.8	Stocks % Rel Std Index									B		
5.97 Healthcare	0.00 🔛 Consumer Defensive	1.00 → Defensive	ndex Technology	Industrials	Energy	Communication Services	— vw Sensitive	Real Estate	Financial Services	Consumer Cyclical	Basic Materials		Sector Weightings	

58.7 5.1 6.7 16.7

2.6 8.8 6.0 6.7

0.49 2.83 1.19 0.82

1.17

24.1

Rel Std Index

0.87

30.2

1.05 0.58 1.47 2.04

0.77

2.0 14.6 0.6 17.2

0.31 1.10

Potential Cap Gains Exp

0.78% -5.15% 99.02 -0.30 1.04

Greater Asia Greater Europe Americas

Utilities

12-Month Yield

MPT Statistics

Standard Index

ex Best Fit Index Morningstar US Mid Brd Grt TR USD

-9.03 1.14 87.61

Regional Exposure

Objective:

Growth

Vanguard Multiple 10.8 Years	Vaccina
------------------------------------	---------

Minimum Initial Purch	ISIN:	Ticker:	Base Currency:	

ial Purchase:			.7
\$3,000	US9219377283	VMGMX	USD

Ċ			
\$3,000	US9219377283	VMGMX	

\$3,000	US9219377283	VMGMX

MGMX	
\$9219377283	
3,000	

Total Assets:	Type:	Incept:	Purchase Constraints:

09-27-2011

\$19,086.00 mil

Release date 10-31-2023	-2023					
Vanaua	rd Mid-Can Value	Morningstar	Analyst-Driven % Morningstar Rating **	Standard Index	Category Index	Morningstar Cat
Valigua	In Ivila-cab value	Medalist Rating	Vallyualu IVIIu-Cap Value Medalist Rating" 100.00 *** S&P 500 TR US	S&P 500 TR USD	Russell Mid Cap Value	Cap Value US Fund Mid-Cap Value
Index A	Index Admiral (USD)	€ Gold	Data Coverage % 379 US Fund Mid-		TR USD	
		01-24-2023	100.00 Cap Value			
Performance 10-31-2023	31-2023				100k	Growth of \$10,000
Quarterly Returns	1st Qtr 2nd Qtr 3rd Qtr 4th Qtr Total %					Vanguard Mid-Cap Value
2021	13.70 4.84 -0.19 8.21 28.76			1	40k	Index Admiral
2022	0.04 -13.05 -5.55 12.11 -7.90					31,170

Unsubsidized	Unst	Subsidized	S		7-dav Yield
	269	363	379	397	No. in Cat
	23	58	71	71	% Rank Cat
1	0.63	0.48	0.91	0.04	+/- Cat Index
I	-3.66	-4.84	-0.67	-13.67	+/- Std Index
10.67	7.52	6.17	9.69	-3.53	Total Return
11.09	8.40	5.41	I	10.35	Std 09-30-2023
10.67	7.52	6.17	9.69	-3.53	Load-adj Mthly
Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
-5.18		-4.85	3.83	-0.36	2023
-7.90	12.11	-5.55	-13.05	0.04	2022
28.76	8.21	-0.19	4.84	13.70	2021
otal %	4th Utr	3rd Utr	2nd Utr	1st Utr	Quarterly Returns

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 11-03-23

2.58

2.46

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

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

Deferred Load % Front-End Load % Sales Charges Fees and Expenses ₹ Z

4.96%			Potential Cap Gains Exp
2.60%			12-Month Yield
99.38	娲	80.55	R-Squared
0.98	88	0.98	Beta
-0.96	17	-0.17	Alpha
Brd Val TR USD	Br		
Best Fit Index	A contract of the contract of	Standard Index	MPT Statistics
0.44	0.30	0.46	Sharpe Ratio
7.52	6.17	9.69	Mean
16.94	21.74	19.42	Standard Deviation
10 Yr	5 Yr	3 Yr	
+Avg	Avg	-Avg	Morningstar Return
-Avg	Avg	Avg	Morningstar Risk
4	3★	2★	Morningstar Rating [™]
10 Yr 269 funds	5 Yr 363 funds	3 Yr 379 funds	!
			Risk and Return Profile
0.07			Gross Expense Ratio %
0.07			Net Expense Ratio %
NA			12b1 Expense %
0.06			Management Fees %
			Fund Expenses

 $\overset{\wedge}{\mathbb{A}}\overset{\wedge}{\mathbb{A}}$

Credit Quality Breakdown

ЧбіН beM

% Hank Cat No. of Funds in Cat	397	405	413	415	422	417	405	399	471	460	415	425
+/- Category Index	-0.74	4.13	0.42	-2.42	0.93	-0.13	3.70	-4.74	2.98	-0.77	4.20	-2.48
Performance Quartile (within category)												
+/- Standard Index	-5.18 -15.87	-/.90 10.21	0.05	-15.86	-3.49	-8.04	-4.79	3.30	-3.18	0.30	5.27	0.02
NAV/Price	65.37	70.08	77.84	61.61	61.79	49.33		50.31	44.54	46.30	41.30	30.47
Investment Style Equity/Stocks %	99	100	98	10 📕	10	ē =	1 1	99	i	ī 1	i	1 0 1
	10-23	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
	4k											
	Ş											
— Standard Index 41,929	10k			•				9		1	1	1
28.191	20k			T	}				}	}		
— Category Average	7	4	1	K	8		\					

Portfolio Analysis 09-30-2023	s 09-30-2023						
Asset Allocation %	Net %	Long %	Short %	Share Chg	Share		Net /
Cash	0.52	0.52	0.00	since	Amount	194 lotal Stocks , U lotal Fixed-Income,	
US Stocks	98.09	98.09	0.00	U8-ZUZ3	:	18% lumover Rauo	
Non-US Stocks	1.39	1.39	0.00	1	IIM Z	Arthur J. Gallagher & Co	
Bonds	0.00	0.00	0.00	1	7 mil	Carrier Global Corp Ordinary Shares	
Other/Not Clsfd	0.00	0.00	0.00	1	4 mil	PACCAR Inc	
Total	100.00	100.00	0.00	1	20 mil	PG&E Corp	
Equity Style	Portfolio Statistics		Rel) (A		
Value Blend Growth	P/E Ratio TTM	15.4 0.74	1.17	D (Digital Bealty Trust Inc	
эбле	P/C Ratio TTM	9.5 0.64	1.07	⊕ (Corteva Inc	
biM		2.0 0.54		① (Baker Hughes Co Class A	
llsm2	\$mil	22003 0.10	1./2		835,926	Ameriprise Financial Inc	
				1	2 mil	Ferguson PLC	
Fixed-Income Style				D		D.R. Horton Inc	
Ltd Mod Ext	Avg Eff Duration			(+) (Cummins Inc	
цвії	Avg Wtd Coupon			①	1 mil	mil Cencora Inc	

	Rel S	f Maturi f Duratii f d Coup td Price	<u> </u>
Stocks % 43.5 7.1 8.6 18.0 9.8 28.8 2.9 3.4 14.5 6.1	↑ 2 mil D.H. Horton Inc ↑ 1 mil Cummins Inc ↑ 1 mil Cencora Inc ► 556,186 United Rentals Inc Sector Weightings ↑ Cyclical ♣ Basic Materials ♣ Consumer Cyclical ♣ Financial Services ♣ Real Estate ▼ Sensitive Communication Services ♣ Industrials ♣ Industrials ♣ Consumer Defensive	D.R. Horton Inc Cencora Inc United Rentals Inc United Rentals Inc Inclination	② 2 mil D.R. Horton Inc ④ 1 mil Cummins Inc 1 mil Cencora Inc 3 sector Weightings 4 Cyclical Band % Dasic Materials Basic Materials A Consumer Cyclical Financial Services A Real Estate Sensitive Sensitive Sensitive 1 Technology Defensive 2.25 Consumer Defensive

Below B NR

Greater Asia Greater Europe Americas Regional Exposure B BB BB

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Il flights Reserved. Unless otherwise provide in 1 include the confidential and propriet or be copied or redistributed. (4) do not come of the copied or redistributed to be context, complete or accurate. Excepted to, Morningster Research Services (LC, redistributed to, Morningster Research Services (LC, research).	Vanguard Multiple 17.3 Years Growth
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only in the country in which its original of elerived from, account information place provided solely for information are provided solely for informational inorthe responsible for any trading defining the stange without notice. Investment real of schange Commission. This report of this report.	USD VMVAX US9219376947 : \$3,000
al distributor is based. The information, data, and voided by your financial professional which can purposes and therefore are not an offer to buy or isloins, damages or other losses resulting from, or search is produced and issued by subsidiaries of the search is	Purchase Constraints: Incept: Type: Total Assets:
lyses and the verified by self a security, self a security, related to, this dominigstar, inc.	— 09-27-2011 MF \$24,962.23 mil

1.16 1.14 1.13 1.13

Vanguard Target Retirement 2020 Trust II

Balanced fund (stocks and bonds)

Fund facts

1474	02/29/08	0.075%	\$6,525 MM	2 3 4 5	_
number	date	as of 03/31/21	assets	→ Hig	Low ←
Fund	Inception	Expense ratio	Total net	vel	Risk leve

Investment objective

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

Investment strategy

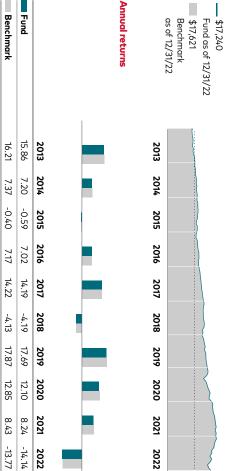
The trust invests in other Vanguard mutual funds and trusts according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2020 (the target year). The trust's asset allocation will become more conservative over time, meaning that 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 Trust II, Vanguard Total Index Fund, 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 2020 Composite Ix

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



Total returns

Periods ended
eriods ended September 30, 2023

45

	i illee yeurs	uis rive yeurs	s lellyedis
Fund -2.63% 4.19% 9.39%	1.46%	3.62%	5.30%
Benchmark -2.47% 4.34% 9.68%	1.73%	3.95%	5.54%

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 Ttl Intl Stk Idx Trust II	Total Stock Market Index Plus	Total Bond Market II Index
16.3	24.0	33.1%

Total Intl Bnd II 14.4
STerm Inf Pro Sec Idx Fund 12.2

*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

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Vanguard Target Retirement 2025 Trust II

Balanced fund (stocks and bonds)

Fund facts

1 2 3 4 5	Low < High	Risk level
\$14,119 MM	assets	Total net
0.075%	as of 03/31/21	Expense ratio
02/29/08	date	Inception
1475	number	Fund

Investment objective

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

nvestment strategy

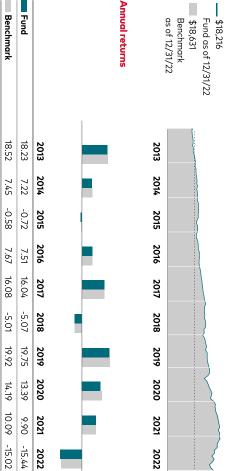
asset allocation should resemble that of the Target to bonds and other fixed income investments will increase. Within seven years after 2025, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term Market Index Trust II, Vanguard Total International Vanguard Institutional Total International Stock Vanguard Total Bond Market II Index Fund are: Vanguard Total Stock Market Index Fund, 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 2025 (the The trust invests in other Vanguard mutual funds

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 securitizes; 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

		Periods ended September 30, 2023							
		Periods ended September 30, 2023	Ten years	Five years	Three years	One year	Year to date	Quarter	
Year to date One year Three years Five years	Year to date One year Three years Five years	Year to date One year Three years	5.88%	4.14%	2.26%	11.57%	5.20%	-2.99%	

Fund 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 Benchmark -2.77% 5.41% 11.91% 2.58% 4.50%

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 Figures for periods of less than one year are cumulative returns. All other figures represent average annual

Index through June 2, 2013, and the FTSE Global All Cap ex US Index therafter; 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. 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 International stock benchmark returns are adjusted for withholding taxes

47

Vanguard Target Retirement 2025 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds[†]







48

†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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Vanguard Target Retirement 2030 Trust II

Balanced fund (stocks and bonds)

Fund facts

1476	02/29/08	0.075%	\$18,073 MM	1 2 3 4 5
number	date	as of 03/31/21	assets	Low < High
Fund	Inception	Expense ratio	Total net	Risk level

Investment objective

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

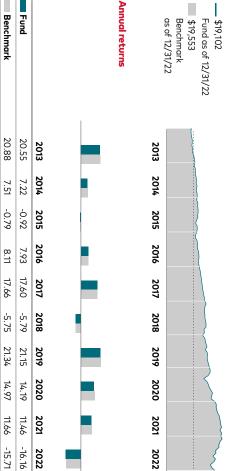
are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, to bonds and other fixed income investments will increase. Within seven years after 2030, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected 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 2030 (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 2030 Composite Ix

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



Total returns

Fund

49

Ten years	Five years	Three years	One year	Year to date	rter
Periods ended September 30, 2023	iods ended Sept	Per			

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	-3.24%	5.93%	13.12%	3.05%	4.55%	6.36%
Benchmark	-2.98%	6.16%	13.51%	3.39%	4.91%	6.62%

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

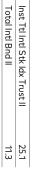
Vanguard Target Retirement 2030 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds







50

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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

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Vanguard Target Retirement 2035 Trust II

Balanced fund (stocks and bonds)

Fund facts

1477	02/29/08	0.075%	\$17,318 MM	3 4 5	2	_
number	date	as of 03/31/21	assets	→ High		Low
Fund	Inception	Expense ratio	Total net		vel	Risk level

Investment objective

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

nvestment strategy

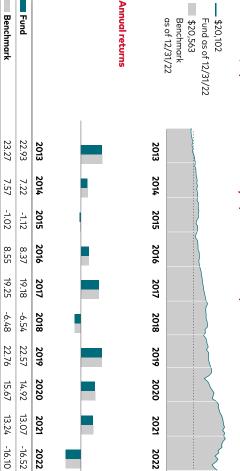
to bonds and other fixed income investments will increase. Within seven years after 2035, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term Market Index Trust II, Vanguard Total International Vanguard Institutional Total International Stock Vanguard Total Bond Market II Index Fund are: Vanguard Total Stock Market Index Fund, 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

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 securitizes; 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 2035 Composite Ix

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



Total returns

1	Per
!	Periods ended September 30, 2023
1	mber 30, 2023

51

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	-3.30%	6.65%	14.65%	3.98%	5.01%	6.87%
Benchmark	-3.04%	6.89%	14.99%	4.31%	5.37%	7.14%

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. 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 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 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 20, 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 2035 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds[†]



Inst Ttl Intl Stk Idx Trust II	Total Stock Market Index Plus
27.6	42.7%



52

*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 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%	\$16,269 MM	5	ω 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

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

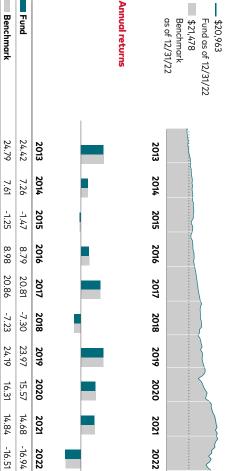
are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, to bonds and other fixed income investments will increase. Within seven years after 2040, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected 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 2040 (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 2040 Composite lx

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



Total returns

Fund

53

•	
_	
•	
!	
!	Periods ended
•	Periods ended September 30, 202:
	, 2023

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	-3.36%	7.39%	16.18%	4.87%	5.45%	7.34%
Benchmark	-3.10%	7.62%	16.48%	5.23%	5.82%	7.62%

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 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







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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

Risk level Low High	Total net assets	Expense ratio as of 03/31/21	Inception date	Fund number
	assets	as of 03/31/21	date	number
1 2 3 4 5	\$14,713 MM	0.075%	02/29/08	1479

Investment objective

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

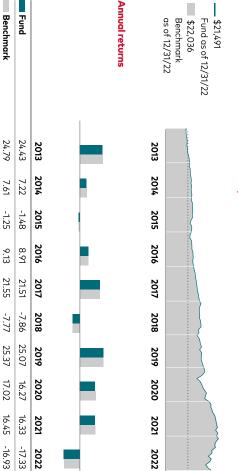
to bonds and other fixed income investments will increase. Within seven years after 2045, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term Market Index Trust II, Vanguard Total International Vanguard Institutional Total International Stock Vanguard Total Bond Market II Index Fund are: Vanguard Total Stock Market Index Fund, 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 2045 (the The trust invests in other Vanguard mutual funds

small-capitalization stocks Vanguard to minimize foreign currency exposure). The trust's indirect stock holdings are a diversified obligations issued by the U.S. Treasury; government, U.S. agency, and investment-grade mix of U.S. and foreign large-, mid-, and 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 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

55

Periods ended September 30, 2023

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	-3.42%	8.11%	17.73%	5.79%	5.93%	7.68%
Benchmark	-3.15%	8.35%	17.97%	6.14%	6.30%	7.96%

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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

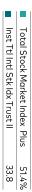
Target Retirement 2045 Composite ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global 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 20, 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[†]







10.6

*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 2045 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 2050 Trust II

Balanced fund (stocks and bonds)

Fund facts

1480	02/29/08	0.075%	\$13,395 MM	2 3 4 5	ω	1	
number	date	as of 03/31/21	h assets	¥ E		Low ←	I۲
Fund	Inception	Expense ratio	Total net	,	<u> </u>	Risk leve	Z ,

Investment objective

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

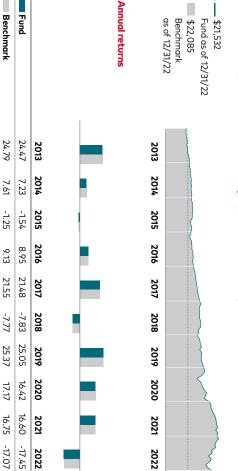
are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, to bonds and other fixed income investments will increase. Within seven years after 2050, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Market Index Trust II, Vanguard Total International Vanguard Institutional Total International Stock Retirement Income Trust II. The underlying holdings 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 2050 (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 2050 Composite lx

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



Total returns

Fund

57

	Periods ende
0.000	d Sentember 30, 2023

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	-3.48%	8.50%	18.52%	5.98%	6.05%	7.74%
Benchmark	-3.20%	8.75%	18.74%	6.34%	6.43%	8.03%

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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 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[†]



Inst Ttl Intl Stk Idx Trust II	Total Stock Market Index Plus
36.1	54.1%



58

*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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Vanguard Target Retirement 2055 Trust II

Balanced fund (stocks and bonds)

Fund facts

as of 03/31/21 0.075%	date 08/31/10	number 1489
0.075%	08/31/10	1489
	as of 03/31/21 0.075%	08/

Investment objective

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

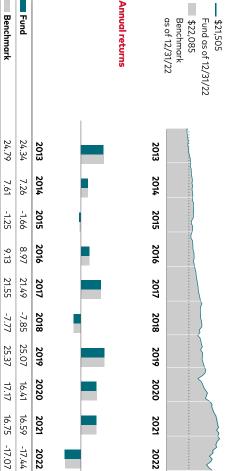
to bonds and other fixed income investments will increase. Within seven years after 2055, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term Market Index Trust II, Vanguard Total International Vanguard Institutional Total International Stock Vanguard Total Bond Market II Index Fund are: Vanguard Total Stock Market Index Fund, 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 2055 (the The trust invests in other Vanguard mutual funds

small-capitalization stocks Vanguard to minimize foreign currency exposure). The trust's indirect stock holdings are a diversified obligations issued by the U.S. Treasury; government, U.S. agency, and investment-grade mix of U.S. and foreign large-, mid-, and 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 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 2055 Composite Ix

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



Total returns

Fund

59

Ton your	П	Thronyour	Vone to data One year	+
Periods ended September 30, 2023	iods ended Sep	Per		

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	-3.48%	8.50%	18.54%	5.98%	6.05%	7.72%
Benchmark	-3.20%	8.75%	18.74%	6.34%	6.43%	8.03%

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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 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[†]



Inst Ttl Intl Stk Idx Trust II	Total Stock Market Index Plus
36.2	54.0%



*Fund holdings are subject to change.

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Plain talk about risk

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Vanguard Target Retirement 2060 Trust II

Balanced fund (stocks and bonds)

Fund facts

1693	03/01/12	0.075%	\$4,730 MM	4	ω	2	_
number	date	as of 03/31/21	h assets	\rightarrow Hig		 ↑	Low
Fund	Inception	Expense ratio	Total net			Risk level	Ris

Investment objective

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

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

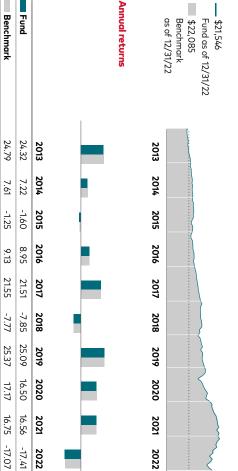
government, U.S. agency, and investment-grade small-capitalization stocks mix of U.S. and foreign large-, mid-, and The trust's indirect stock holdings are a diversified Vanguard to minimize foreign currency exposure) currencies other than the U.S. dollar (but hedged by investment-grade foreign bonds 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

\$22,085



Total returns

Fund

Periods ende
riods ended September 30, 2023

61

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	-3.48%	8.51%	18.54%	5.99%	6.07%	7.74%
Benchmark	-3.20%	8.75%	18.74%	6.34%	6.43%	8.03%

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

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 Plus
36.1	54.1%



†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

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Vanguard Target Retirement 2065 Trust II

Balanced fund (stocks and bonds)

Fund facts

1 2 3 4 5	Low < High	Risklevel
\$1,248 MM	assets	Total net
0.075%	as of 03/31/21	Expense ratio
07/17/17	date	Inception
1794	number	Fund

Investment objective

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

to bonds and other fixed income investments will increase. Within seven years after 2065, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term Market Index Trust II, Vanguard Total International Vanguard Institutional Total International Stock Vanguard Total Bond Market II Index Fund are: Vanguard Total Stock Market Index Fund, 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 2065 (the The trust invests in other Vanguard mutual funds

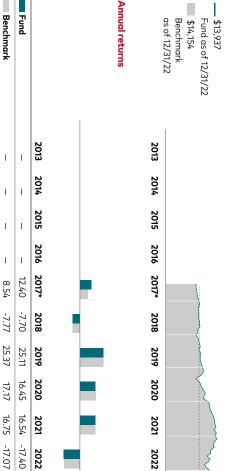
small-capitalization stocks Vanguard to minimize foreign currency exposure). The trust's indirect stock holdings are a diversified obligations issued by the U.S. Treasury; government, U.S. agency, and investment-grade mix of U.S. and foreign large-, mid-, and currencies other than the U.S. dollar (but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

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Benchmark

Target Retirement 2065 Composite Ix

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



Total returns

Fund

63

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	100	-	

	Quarter	Year to date	One year	Three years	Five years	Since inception
nd	-3.49%	8.49%	18.51%	5.97%	6.08%	7.63%
nchmark	-3.20%	8.75%	18.74%	6.34%	6.43%	I

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

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

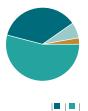
^{*} Partial return since fund started, July 17, 2017.

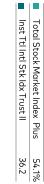
Target Retirement 2065 Composite Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: the FTSE Global All Cap ex US Index for international stocks, the Bloomberg U.S. Aggregate Float Adjusted Index For U.S. bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index Hedged for international bonds, and the CRSP US Total Market Index for U.S. stocks. International stock benchmark returns are adjusted for withholding taxes.

Vanguard Target Retirement 2065 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds







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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

04/07/22	0.075%	\$71 MM	5	ω	2	_
date	as of 04/07/22	assets	High		1	Low
Inception	Expense ratio	Total net	/		evel	Risk leve

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 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 2070 Composite Index

Total returns

ı			Periods 6	Periods ended September 30, 2023
	Quarter	Year to date	One year	Since inception
und	-3.46%	8.51%	18.60%	-2.51%
enchmark	-3.20%	8.75%	18.74%	I

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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

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

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

Allocation of underlying funds







65

66

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

1471	02/29/08	0.075%	\$4,379 MM	4 5	ω	1 2
number	date	as of 03/31/21	assets	ightarrow High		Low ←
Fund	Inception	Expense ratio	Total net		_	Risk leve

Investment objective

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

Investment strategy

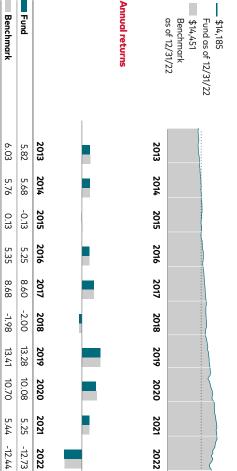
and trusts according to an asset allocation strategy designed for investors currently in retirement. The Vanguard Short-Term Inflation-Protected Total International Bond II Index Fund, and International Stock Market Index Trust II, Vanguard Index Fund, Vanguard Institutional Total underlying holdings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

government, agency, corporate, and securitized investment-grade foreign bonds issued in obligations issued by the U.S. Treasury; 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 mortgage-backed and asset-backed securities; and 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 Income Compos. Ix

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



Total returns

Fund

67

Periods ended S
lods ended September 30, 2023

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	-2.41%	3.15%	7.05%	-0.12%	2.72%	3.64%
Benchmark	-2.26%	3.23%	7.31%	0.10%	2.97%	3.84%

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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[†]



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*Fund holdings are subject to change.	STerm Inf Pro Sec Idx Fund	Total Stock Market Index Plus	Total Bond Market II Index
	17.0	17.6	37.2%

Inst Ttl Intl Stk Idx Trust II Total Intl Bnd II 12.0

68

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Plain talk about risk

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Market Index I (USD) Vanguard Total Bond

Performance 10-31-2023	31-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2021	-3.61	2.00	0.11	-0.08	-1.65
2022	-5.98	-4.71	-4.65	1.67	-13.15
2023	3.16	-0.90	-3.08		-2.46
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	0.54	-5.50	-0.02	0.88	4.00
Std 09-30-2023	0.74		0.15	1.12	4.08
Total Return	0.54	-5.50	-0.02	0.88	4.00
+/- Std Index	0.19	0.06	0.04	0.00	I
+/- Cat Index	0.19	0.06	0.04	0.00	
% Rank Cat	46	41	34	38	
No. in Cat	468	423	383	278	

5.04	4.98	30-day SEC Yield 11-03-23
	1	7-day Yield
Unsubsidized	Subsidized	

11.09

10.56

93

97

2012

2013

-0.03 4.18

-0.11 -2.14

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

1165

1079

-0.03

-0.11

8

67

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

month-end, please call 888-809-8102 or visit www.vanguard.com. quoted herein. For performance data current to the most recent Current performance may be lower or higher than return data

Fees and Expenses

Sales Charges	
Front-End Load %	₹
Deferred Load %	¥
Fund Expenses	

	Risk and Return Profile
0.04	Gross Expense Ratio %
0.04	Net Expense Ratio %
NA	12b1 Expense %
0.03	Management Fees %
	Fund Expenses

KISK and Return Profile			
	3 Yr	5Yr	10 Yr
		383 funds	278 funds
Morningstar Rating™	3 ⊁	3 ★	3★
Morningstar Risk	Avg	Avg	Avg
Morningstar Return	Avg	Avg	Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	6.25	5.67	4.47
Mean	-5.50	-0.02	0.88
Sharpe Ratio	-1.22	-0.31	-0.06
MPT Statistics	Standard Index		Best Fit Index Bloomberg US Agg
Alpha	0.08		0.08
Beta	1.00	U	1.00
R-Squared	99.80		99.80
12-Month Yield			3.23%

	06-27-2023		Medalist Rating 100.00	Morningstar
	100.00	Data Coverage % 423 US Fund	100.00	4nalyst-Driven %
Bond	Intermediate Core	423 US Fund	***	Analyst-Driven% Morningstar Rating™
		Во	ВС	Sta





Bloomberg US Agg Bond TR USD

Category Index

US Fund Intermediate Core Bond Morningstar Cat

No. of Funds in Cat	472	453	423	415	430	1019	986	985	1042	1038	
% Rank Cat	1	40	50	45	33	30	55	62	28	8	
+/- Category Index	0.31	-0.14	-0.11	0.23	0.01	-0.02	0.03	-0.04	-0.14	-0.06	
Performance Quartile (within category)											
+/- Standard Index	0.31	-0.14	-0.11	0.23	0.01	-0.02	0.03	-0.04	-0.14	-0.06	
Total Return %	-2.46	-13.15		7.74	8.73	-0.01	3.57	2.61	0.41	5.90	
NAV/Price	9.01	9.48	11.19	11.62	11.05	10.45	10.75	10.65	10.64	10.87	
Investment Style Fixed-Income/Bond %	99	99	97	99	97	99	97	98	98	95	
	10-23	2022	2021	2020	2019	2018	2017	2016	2015	2014	
	4k										
11,256	10k										
- Standard Index	į										
Category Average	106										
Index I	40k										
Vanguard Total Bond Market	60 _x										
Growth of \$10,000	100k										

Portfolio Analysis 09-30-2023	s 09-30-2023					
Asset Allocation %	Net %	Long %	Short %	Share Chg	Share	Holdings:
Cash	0.90	0.90	0.00	since	Amount	0 Total Stocks , 14,806 Total Fixed-Income,
US Stocks	0.00	0.00	0.00	U8-ZUZ3	!	40% lumover kauo
Non-US Stocks	0.00	0.00	0.00	⊕	1,//1 mil	United States Treasury Notes 1.875%
Bonds	99.09	99.21	0.12		1,470 mil	United States Treasury Notes 2%
Other/Not Clsfd	0.01	0.01	0.00		1,766 mil	United States Treasury Notes 1.375%
Total	100.00	100.12	0.12	1	1,532 mil	United States Treasury Notes 0.75%
Equity Style	Dortfolio Statistics		D.	(, 00	
Equity Style	FORIOTIO SIGUSUOS	Avg Index	x Cat	1	1,422 mil	1,422 mil United States Treasury Notes 2.75%
ins.	P/E Ratio TTM	1		1	1,229 mil	United States Treasury Notes 1.5%
96	P/C Ratio TTM			⊕	1,276 mil	United States Treasury Notes 3.375%
biM	P/B Ratio I IIVI				1,260 mil	United States Treasury Notes 3.5%
llsm2	\$mil				1,463 mil	1,463 mil United States Treasury Notes 1.25%
				①	1,285 mil	1,285 mil United States Treasury Notes 2.875%
Fixed-Income Style	Ava Eff Maturity		0 70	1	1,424 mil	United States Treasury Notes 0.875%
Ltd Mod Ext	Avg Eff Duration		6.76	⊕	1,333 mil	1,333 mil United States Treasury Notes 1.625%

Credit Quality Breakdown 09-30-2023	мод		Avg Wtd Coupon 3.1			
Bond %		88.04	6.26 3.10	8.70	9	
% Cyclical Basic Material	Sector Weightings	1,236 mil			_	⊕ 1,285 mil

1	1		Industrials	7	-0.07
	I		Energy	о О	0.00
1	I	in Services	Communication Services	. O	0.00
I	Ι		Sensitive	- {	0.00
	-		Real Estate	ದ E	13.53
	I	ices	Financial Services	6	12.56
	I	lical	Consumer Cyclical		3.20
	I	S	 Basic Materials 	x s	70 78
1	I		Դ Cyclical	·	Rond
Rel Std Index	Stocks %		Sector Weightings	Se	
0.36	United States Treasury Notes 1.25%	United Star) 1,236 mil	∓	88.04
0.36	United States Treasury Notes 2.125%	United Star	1,106 mil	0 6	3.10
0.37	United States Treasury Notes 1.625%	United Star) 1,333 mil	ர் (+)	6 26
0.38	United States Treasury Notes 0.875%	United Star) 1,424 mil	<u></u>	0
0.39	United States Treasury Notes 2.875%	United Star) 1,285 mil	 ⊕	

a	99.80			Occord /d		→ Defensive	I
ı Yield Cap Gains Exp		3.23% 12.16%	Americas Greater Europe Greater Asia	1 1 1		Consumer Defensive Healthcare	
			מוסמנסו המוס			Utilities	ı
<	Vanguard		Base Currency:	USD	P	Purchase Constraints:	
	Joshua Barrickman		Ticker:	VBTIX	=	icept:	09-18-1995
_	0.8 Years		ISIN:	US9219375048	_	Type:	MF
	Income		Minimum Initial Purchase:	\$5 mil	_	otal Assets:	\$287,486.08 mil

Objective: Tenure: Manager: Family: Potential Cap Gains Exp

Regional Exposure

Stocks %

Rel Std Index

Technology

Below B

88 88

 \geq

AAA

0.48 0.47 0.47 0.46

0.49

0.39

0.40 0.40 0.40 0.42 Net Assets

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

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 the general market's volatility in new significantly from month to month despite or if you have a choice between multiple 457/401 II if Competing Investment Options (as defined below) are offered involving the Voya Fixed Account restrictions on transfers and withdrawals mind. Therefore, VRIAC may impose invested by VRIAC with this goal in principal. for participants seeking stability of intended to be a long-term investment Key Features
The Voya Fixed Account – 457/401 II is The assets supporting it are

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

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

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

Competing Investment Option

as any investment option that: Competing Investment Option is defined As used throughout this document, a

- (a) investment performance guarantee; Provides a direct or indirect
- **6** assets other than common or ls, or may be, invested primarily in preferred stock;
- <u>(c)</u> assets other than common or preferred stock; contracts) which are invested 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 Is available through an account plan additional investment under the (as defined in the contract) as an with a brokerage firm designated
- (e) arrangement; Is a self-directed brokerage
- \ni as reasonably determined characteristics to the above Is any fund with similar Company; or

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

Contact Center at (800) 584-6001. plan, please contact the Customer 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 Account – 457/401 II are allowed to pay Withdrawals from the Voya Fixed 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 At the completion of each 5-year then occur no later than the next applicable anniversary date. Full least 12 months prior to the made in writing by the plan and provisions of option (a) above. time would be subject to the withdrawal requests at any other Fixed Account – 457/401 II would of all amounts held within the Voya applicable anniversary date. Payout received by us in our home office at Request for this option must be anniversary date"), as a lump sum effective date (the "applicable period measured from the plan

70

Interest Rate Structure

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

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



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

71

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

dealers with which it has a selling agreement. All products or services may arrangement, they may be provided by Voya Institutional Trust Company. All companies are members of the Voya® 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. distributed by Voya Financial Partners, family of companies. Securities trust agreements are part of this solicitation of securities. If custodial or responsible 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 LLC (member SIPC) or other broker-



on the financial strength and claims-paying ability of VRIAC, which is solely an obligation of VRIAC's general available through a group annuity or other type of contract issued by Voya 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 The Voya Fixed Account – 457/401 II is

Asset Class: Stability of Principal

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- <u>(C</u> Is available through an account assets other than common or with a brokerage firm designated preferred stock; contracts) which are invested funds, trusts or insurance company financial vehicles (such as mutual ls, or may be, invested primarily in
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- (e) arrangement; Is a self-directed brokerage
- \ni by the as reasonably determined characteristics to the above Is any fund with similar Company; or

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72

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The Voya Fixed Account – 457/401 II will

73

1.00% GMIR for the life of the contract is The Voya Fixed Account – 457/401 II's

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



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 09-30-2023												
Standardized Returns (%)	7-day Yield 7-day Yield Subsidized Unsubsidized as of date as of date	y Yield sidized of date	1Yr	5Yr	10Yr	Since Inception	Inception Date	Inception Max 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		19.64	3.11	4.64	7.23 05-01-200	01-2009	NA	NA	0.47	0.47	NA
JPMorgan Large Cap Growth R6			23.20	13.38	15.32	15.15 11-30-2010	30-2010	N	NA	0.441	0.52	N
MFS Value R4			12.20	6.86	8.77	8.02 04-01-2005	01-2005	NA	NA	0.55^{2}	0.56	NA
Sterling Capital Total Return Bond R6			0.88	0.61		0.49 02-01-2018	01-2018	NA	NA	0.35^{3}	0.48	N
Vanguard Extended Market Index InstIPlus	1		14.50	4.54	7.94	9.12 01-14-201	14-2011	M	NA	0.04	0.04	N N
Vanguard Institutional Index Instl PI	1	1	21.60	9.90	11.90	8.09 07-07-1997	07-1997	NA	N A	0.02	0.02	NA
Vanguard Mid-Cap Growth Index Admiral				7.18	9.46	11.41 09-27-201	27-2011	NA	NA	0.07	0.07	NA

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Annualized returns 09-30-2023										
Standardized Returns (%)	7-day Yield 7-day Yield Subsidized Unsubsidized as of date as of date	1Yr	5Yr	10Yr	Since Inception Inception Date	Inception Max Front Max Back Date Load % Load %	Max Back Load %	Net Exp Ratio %	Gross Exp Max Ratio % Redemption %	Max nption %
Vanguard Mid-Cap Value Index Admiral Vanguard Total Bond Market Index I		10.35 0.74	5.41 0.15	8.40 1.12	11.09 09-27-2011 4.08 09-18-1995	N N	N N	0.07 0.04	0.07 0.04	N N
Bloomberg US Agg Bond TR USD Bloomberg US Universal TR USD Morningstar GbI xUS Growth TME NR USD Morningstar US Core Bd TR USD Morningstar US LM Brd Val TR USD		0.64 1.61 16.04 0.66	0.10 0.34 	1.13	— 01-03-1980 — 12-31-1998 — 11-24-2021 — 05-01-2019 — 12-21-2020					
Morningstar US Mid Brd Grt TR USD Morningstar US Mid Brd Val TR USD Morningstar US Sml Brd Grt Ext TR USD		14.62 11.08 12.52	111	111	— 12-21-2020 — 12-21-2020 — 12-21-2020					
MSCI ACWI EX USA Growth NR USD MSCI ACWI EX USA NR USD		15.84 20.39	2.54 2.58	3.92 3.35	— 01-01-2001 — 01-01-2001					
MSCI EAFE NR USD Russell 1000 Growth TR USD Russell 1000 TR USD Russell 1000 Value TR USD Russell Mid Cap Growth TR USD		25.65 27.72 21.19 14.44 17.47	3.24 12.42 9.63 6.23 6.97	3.82 14.48 11.63 8.45 9.94	— 03-31-1986 — 01-01-1987 — 12-31-1978 — 01-01-1987 — 02-01-1995					
Russell Mid Cap TR USD Russell Mid Cap Value TR USD S&P 500 TR USD USTREAS T-Bill Auction Ave 3 Mon		13.45 11.05 21.62 5.07	6.38 5.18 9.92 1.85	8.98 7.92 11.91 1.21	— 12-31-1978 — 12-31-1985 — 01-30-1970 — 02-28-1941					

Return after Tax (%)	On Distribution					On Distribution and Sales o	າ and Sales of Shares		
	1Yr	5Yr	10Yr	Since Inception	Inception Date	1Yr	5Yr	10Yr	10Yr Since Inception
American Funds Europacific Growth R6	19.05	2.14	3.69	6.39	05-01-2009	11.90	2.37	3.54	5.81
JPMorgan Large Cap Growth R6	22.25	10.89	13.26	13.52	11-30-2010	14.26	10.18	12.28	12.55
MFS Value R4	9.93	5.48	7.27	6.76	04-01-2005	8.26	4.95	6.53	6.19
Sterling Capital Total Return Bond R6	-0.52	-0.74		-0.85	02-01-2018	0.54	-0.03		-0.12
Vanguard Extended Market Index InstlPlus	14.03	4.16	7.45	8.69	01-14-2011	8.80	3.45	6.28	7.45
Vanguard Institutional Index Instl PI	20.70	8.99	11.10	7.50	07-07-1997	13.31	7.72	9.69	6.81
Vanguard Mid-Cap Growth Index Admiral	14.84	6.98	9.20	11.17	09-27-2011	9.04	5.60	7.69	9.55
Vanguard Mid-Cap Value Index Admiral	9.65	4.80	7.73	10.42	09-27-2011	6.54	4.13	6.65	9.11
Vanguard Total Bond Market Index I	-0.48	-0.88	0.04	2.41	09-18-1995	0.46	-0.27	0.42	2.50

Contractual waiver; Expires 10-31-2024
 Contractual waiver; Expires 12-31-2023
 Contractual waiver; Expires 01-31-2024

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



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

Performance

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

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

Pre-Inception Returns

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

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

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

Quantitatively-Driven Content

This report may contain a Momingstar Medalist RatingTM derived quantitatively ("Quantitatively-Driven Content"), meaning it was generated in whole or in part by a series of statistical models intended to replicate Morningstar's analyst output.

Mr. Lee Davidson, Chief Analytics Officer for Morningstar, Inc. is responsible for overseeing the methodology that supports the Quantitatively-Driven Content. Mr. Davidson is guided by the Morningstar, Inc. Code of Ethics in carrying out his responsibilities. Morningstar's Research, Investment, and Analytics Group includes manager research employees of various Morningstar, Inc. subsidiaries who prepare analysis on investment products and quantitative research employees of Morningstar, Inc. or its subsidiaries who aim to help investors by providing innovative research, models, and software. In the United States, which

is registered with the U.S. Securities and Exchange Commission.

12b1 Expense %

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

Alpha

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

Analyst-Driven %

The Analyst-Driven % data point displays the weighted percentage of a vehicle's pillar ratings assigned directly or indirectly by analysts. For example, if the People and Parent ratings are assigned directly or indirectly by analysts but the Process rating is assigned algorithmically, the Analyst-Driven % for an actively managed vehicle would disclose that 55% of the pillar weight was assigned by analysts and the Analyst-Driven % for a passively managed vehicle would disclose that 20% of the pillar weight was assigned by analysts.

Asset Allocation

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

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

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



unidentified characteristics of fund holdings are material, pie charts and other breakdowns may rescale identified characteristics to 100% for more intuitive presentation.)

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

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

Average Effective Maturity

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

Average Weighted Coupon

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

Average Weighted Price

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

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.

Data Coverage %

The Data Coverage % data point is a summary metric describing the level of data completeness used to generate the overall rating. If the pillar is assigned directly or indirectly by analysts, the pillar has complete data availability, as no model was used to estimate the pillar score. If the pillar is assigned directly by algorithm, Morningstar counts the number of data points feeding both the positive and negative models and counts whether the vehicle has strategy-specific data available. A simple percentage is calculated per pillar. The overall data coverage % is then scaled by pillar weights.

Deferred Load %

The back-end sales charge or deferred load is imposed when an investor redeems shares of a fund. The percentage of the load charged generally declines the longer the fund's shares are held by the investor. This charge,

coupled with 12b-1 fees, commonly serves as an alternative to a traditional front-end load.

Expense Ratio %

The expense ratio is the annual fee that all funds charge their shareholders. It expresses the percentage of assets deducted each fiscal year for fund expenses, including 12b-1 fees, management fees, administrative fees, operating costs, and all other asset-based costs incurred by the fund. Portfolio transaction fees, or brokerage costs, as well as front-end or deferred sales charges are not included in the expense ratio. The expense ratio, which is deducted from the fund's average net assets, is accrued on a daily basis. The gross expense ratio, in contrast to the net expense ratio, does not reflect any fee waivers in effect during the time period.

Front-end Load %

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

Geometric Average Market Capitalization

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

Growth of 10,000

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

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

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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 if 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 Medalist Rating™

The Morningstar Medalist Rating is the summary expression of Morningstar's forward-looking analysis of investment strategies as offered via specific vehicles using a rating scale of Gold, Silver, Bronze, Neutral, and Negative. The Medalist Ratings indicate which investments Morningstar believes are likely to outperform a relevant index or peer group average on a risk-adjusted basis over time. Investment products are evaluated on three key pillars (People, Parent, and Process) which, when coupled with a fee assessment, forms the basis for Morningstar's conviction in those products' investment merits and determines the Medalist Rating they're assigned. Pillar ratings take the form of Low, Below Average, Average, Above Average, and High. Pillars may be evaluated via an



analyst's qualitative assessment (either directly to a vehicle the analyst covers or indirectly when the pillar ratings of a covered vehicle are mapped to a related uncovered vehicle) or using algorithmic techniques. Vehicles are sorted by their expected performance into rating groups defined by their Momingstar Category and their active or passive status. When analysts directly cover a vehicle, they assign the three pillar ratings based on their qualitative assessment, subject to the oversight of the Analyst Rating Committee, and monitor and reevaluate them at least every 14 months. When the vehicles are covered either indirectly by analysts or by algorithm, the ratings are assigned monthly. For more detailed information about the Medalist Ratings, including their methodology, please go to http://global.morningstar.com/managerdisclosures.

The Morningstar Medalist Ratings are not statements of fact, nor are they credit or risk ratings. The Morningstar Medalist Rating (i) should not be used as the sole basis in evaluating an investment product, (ii) involves unknown risks and uncertainties which may cause expectations not to occur or to differ significantly from what was expected, (iii) are not guaranteed to be based on complete or accurate assumptions or models when determined algorithmically, (iv) involve 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, tax rates, exchange rate changes, and/or changes in political and social conditions, and (v) should not be considered an offer or solicitation to buy or sell the investment product. A change in the fundamental factors underlying the Morningstar Medalist Rating can mean that the rating is subsequently no longer accurate.

Analysts do not have any other material conflicts of interest at the time of publication. Users wishing to obtain further information should contact their local Morningstar office or refer to the Analyst Conflicts of Interest and Other Disclosures for North America at

https://global.morningstar.com/managerdisclosures under "Methodology Documents and Disclosures".

Morningstar Category

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

Morningstar Rank

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

Morningstar Rating™

The Morningstar 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 2 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

he Morninostar Return rates a fund's nerformance relative to o

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 measured for up to three time periods (three, five, and 10 years). These separate measures are then weighted and averaged to produce an overall measure for the product. Products with less than three years of performance history are not rated.

Morningstar Risk

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

Style Analysis

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

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

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

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

To determine the rating applicable to a holding and the subsequent holding weighted value of a portfolio two methods may be employed. First is a common

weighted value of a portfolio two methods may be employed. First is a common methodology approach where if a case exists such that two rating organizations/ agencies have rated a holding, the lower rating of the two should



Morningstar uses the credit rating information to calculate a weighted-average credit quality value for the portfolio. This value is based only upon those holdings which are considered to be classified as "fixed_income", such as government, corporate, or securitized issues. Other types of holdings such as equities and many, though not all, types of derivatives are excluded. The weighted-average credit quality value is represented by a rating symbol which corresponds to the long-term rating symbol schemas employed by most CRA's. Note that this value is not explicitly published but instead serves an an input in Style Box calculation. This symbol is then used to map to a Style Box credit quality category of "low," "medium," or "high". Funds with a "low" credit quality category are those whose weighted-average credit quality is determined to be equivalent to the commonly used High Yield classification, meaning a rating below "BBB", portfolios assigned to the "high" credit category have either a "AAA" or "AA+" average credit quality value, while "medium" are those with an average rating of "AA" inclusive to "BBB-". It is expected and intended that the majority of portfolios will be assigned a credit category of "medium".

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

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

P/B Ratio TTM

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

P/C Ratio TTM

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

P/E Ratio TTM

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

Percentile Rank in Category

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

Performance Quartile

Performance Quartile reflects a fund's Morningstar Rank

Potential Capital Gains Exposure

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

Quarterly Returns

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

4-Squared

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

Regional Exposure

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

Sector Weightings

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



generally have betas that are close to 1.

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

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

Standard Deviation

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

Standardized Returns

Standardized Return applies the methodology described in the Standardized 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-inception periods, and it demonstrates the impact of sales charges (if applicable) and ongoing fund expenses. Standardized Return reflects the return an investor may have experience if the security was purchased at the beginning of the period and sold at the end, incurring transaction charges.

Total Return

Total Return, or "Non Load-Adjusted Return", reflects performance without adjusting for sales charges (if applicable) or the effects of taxation, but it is adjusted to reflect all actual ongoing security expenses and assumes 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 sales charges and the effects of taxation, the performance quoted would be significantly reduced.

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

Trailing Returns

Standardized Return applies the methodology described in the Standardized 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-inception periods, and it demonstrates the impact of sales charges (if applicable) and ongoing fund expenses. Standardized Return reflects the return an investor may have experienced if the fund was purchased at the beginning of the period and sold at the end, incurring transaction charges.

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

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

Investment Risk Disclosures

Morningstar makes no representation concerning the appropriateness of any

investment or investment strategy. Other types of investments or investment strategies may be more appropriate depending upon an investor's specific situation, including the investor's investment objectives, financial status, tax situation, and risk tolerance. These disclosures cannot and do not list every conceivable factor that may affect the results of any investment or investment strategy. Additional risks will arise, and an investor must be willing and able to accept those risks. You should speak with your financial professional to understand the risks and limitations on investing in any particular investment or investment strategy, including those that are shown in this report, before making investment decisions.

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

The risks associated with investing are numerous and include, but are not limited to, those listed below:

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

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

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

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<u>Small Cap Equities:</u> Portfolios that invest in stocks of small companies involve additional risks. Smaller companies typically have a higher risk of failure, and are not as well established as larger blue-chip companies. Historically, smaller-company stocks have experienced a greater degree of market volatility than the overall market average.

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

High-Yield Bonds: Portfolios that invest in lower-rated debt securities (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 aware of the possible higher level of volatility, and increased risk of default.

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

<u>Bonds</u>: 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. Portfolios that hold bonds are subject to declines and increases in value due to general changes in interest rates.

Hedge Funds: The investor should note that hedge fund investing involves specialized risks that are dependent upon the type of strategies undertaken by the manager. This can include distressed or event-driven strategies, long/short strategies, using arbitrage (exploiting price inefficiencies), international



investing, and use of leverage, options and/or derivatives. Although the goal of hedge fund managers may be to reduce volatility and produce positive absolute return under a variety of market conditions, hedge funds may involve a high degree of risk and are suitable only for investors of substantial financial means who could bear the entire loss of their investment.

Bank Loan/Senior Debt: Bank loans and senior loans are impacted by the risks associated with fixed income in general, including interest rate risk and default 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 bank loans/senior debt are often highly leveraged, producing a high risk of return volatility.

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

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

<u>Short Positions:</u> When a short position moves in an unfavorable way, the losses are theoretically unlimited. The broker may demand more collateral and a manager might have to close out a short position at an inopportune time to limit further losses.

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

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

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

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

Target-Date Funds: Target-date funds typically invest in other mutual funds and are designed for investors who are planning to retire during the target date year. The fund's target date is the approximate date when investors expect to begin withdrawing their money. A target-date fund's investment objective/strategy typically becomes more conservative over time, primarily by reducing its allocation to equity mutual funds and increasing its allocations in fixed-income

mutual funds. An investor's principal value in a target-date fund is no guaranteed at any time, including at the fund's target date.

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

Benchmark Disclosure

Bloomberg US Agg Bond TR USD

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

Bloomberg US Universal TR USD

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

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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 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.

Russell Mid Cap Growth TR USD

Tracks the companies within the Russell Midcap Index with higher price-to-book

ratios and higher forecasted growth values. The constituents displayed for this index are from the following proxy: iShares Russell Mid-Cap Growth ETF.

Russell Mid Cap TR USD

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

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. Momingstar 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.

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

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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