

## 457(b) Deferred Compensation and OBRA Plans

March 31, 2023 Performance Report

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# Section 1



## FIRST QUARTER 2023 MARKETS AND ECONOMIC UPDATE

#### **GLOBAL ECONOMIC LANDSCAPE**

- Following seven rate hikes in 2022, the Federal Open Markets Committee raised rates by a total of 0.50% in 1Q23 (0.25% in February and 0.25% again in March) while continuing its monetary tightening program. Together with more restrictive lending standards from banks, these monetary effects tighten financial conditions and threaten to slow economic activity<sup>1</sup>.
- Global markets have been faced with divergent central bank policies. On the contractionary side, the Federal Reserve and the European Central Bank (ECB) have embarked on aggressive tightening campaigns, seeking to curb inflationary pressures. Since February 2022, the Fed has unwound about \$530 billion of its balance sheet assets (a -6% change), while the ECB has unwound \$1.6 trillion of its balance sheet assets (a -16% change). However, the Bank of Japan (BoJ) and People's Bank of China's (PBoC) vigorous asset purchases have largely offset these actions. The PBOC added ~\$600 billion to its balance sheet (a +11% change) from October to December 2022, responding to the economic implications of lockdowns. The BoJ, hoping to maintain its yield curve control policy, bought \$850 billion worth of assets (a +18% change) from October 2022 to February 2023<sup>2</sup>.
- European headline inflation declined substantially during the first quarter of 2023. Welcome as this development may appear, much of it was due to declining energy prices while core inflation in areas like services and food remain high. Wages, which typically lag, are showing signs of rising. The overall composition and direction of inflation indicates its potential to stay higher for longer, reducing the probability for central bank policy easing<sup>3</sup>.
- China's property sector accounts for \$4.5 trillion of the country's GDP (versus \$3.4 trillion for the United States). After 17 months of decline due to the combination of quarantine and policy tightening, property prices increased by 0.3% in February 2023. Continued demand growth here may support commodity prices, considering that the country accounts for nearly half of the global demand for iron ore, aluminum, copper, nickel, zinc, and steel<sup>4</sup>.
- The US Banking system exhibited increasing funding pressure as yields on bank deposits struggled to compete with those of money market funds. In the first quarter of 2023, money market assets exceeded deposits of all domestically chartered banks for the first time since 2021 and by a substantial margin. This may place continued earnings stress on bank stocks, which in turn have been shown to be leading economic indicators<sup>5</sup>.

<sup>&</sup>lt;sup>1</sup> Source: Morgan Stanley, Portfolio Construction and Cross-Asset Strategy, April 4, 2023

<sup>&</sup>lt;sup>2</sup> Source: Morgan Stanley, Topics in Portfolio Construction, March 14, 2023

<sup>&</sup>lt;sup>3</sup> Source: Morgan Stanley, Euro Inflation Watch, March 31, 2023

<sup>&</sup>lt;sup>4</sup> Source: Morgan Stanley, China's Reopening and Property Sector Improvement Are Key to Commodity Demand, April 5, 2023

<sup>&</sup>lt;sup>5</sup> Source: Morgan Stanley, Weekly Warm-up: April 3, 2023

#### FIXED INCOME MARKETS<sup>6</sup>

- Bond market performance was broadly positive in 1Q23, with most bond sectors positing returns of low- to mid-single digits. Longer-term bonds were among the highest performs as rates fell on the expectation of an earlier end to the Federal Reserve's rate-hiking cycle. The thirty-year Treasury for example returned 5.99% versus 2.96% for the US Aggregate Bond Market.
- Yields across the US Treasury curve declined in largely parallel fashion in 1Q23, dropping from 0.3% to 0.4% for Treasurys maturing two-years and beyond. Only the very front-end of the yield curve increased during the quarter, with 3-month and one-year Treasury bills eclipsing yearend levels by smaller margins.
- 1Q23's general decline in yields notwithstanding, a broad range of fixed income indices ended the quarter at the upper end of their ten-year range, contrasting the more recent rate environment with the low-rate regime of the prior decade. While yields in most fixed income sectors stood between 1.5% to 3.5% above their trailing ten-year median, leveraged loans were notably higher, ending the quarter at 11.3% versus a median of 5.7%, suggesting a higher degree of market apprehension being priced into this sector.
- Credit spreads on US High Yield bonds continued to appear range-bound, ending the quarter at 4.99% versus a long-term average of 5.66%. Default rates ended the quarter below long-term averages as well but continued their upward trend. Although market commentators have communicated concern about how this sector may fare during a downturn, credit spreads are not yet at levels typically consistent with recessions.

#### **EQUITY MARKETS**

- By the end of 1Q23, equity indices improved, the growth style outperformed value, large-cap beat mid- and small-cap stocks, and information technology was the strongest performing sector. Interestingly, a smaller portion of the constituents of the S&P 500 Index outperformed it than in the preceding quarter, indicating a decline in market breadth<sup>7</sup>.
- The US equity risk premium (ERP), computed as the difference between the S&P 500's trailing earnings yield and the US 10-year Treasury yield, provides a proxy for how much equity investors may expect to receive in compensation for their additional risk versus bonds. A review of data since the early 1900s indicates that investors do not appear to be adequately compensated for assuming equity risk versus Treasurys. In fact, over the 120-year history, the ERP has rarely been lower than where it is today (excluding the unique periods of high Treasury yields in the 1970s to 1990s)<sup>8</sup>.

<sup>&</sup>lt;sup>6</sup> Source: JP Morgan Guide to the Markets, 2Q2023

<sup>&</sup>lt;sup>7</sup> Source: Morgan Stanley, Portfolio Construction and Cross-Asset Strategy, April 4, 2023

<sup>&</sup>lt;sup>8</sup> Source: Morgan Stanley, Topics in Portfolio Construction, March 14, 2023

- The MSCI Emerging Markets Index entered a bull market (up 20% from its trough) in mid-January. Features such as stabilization in earnings estimate revisions, fund flows showing relative strength, and China's re-opening bringing high savings amounts to markets support the view that Emerging Market Equities may have additional upside<sup>9</sup>.
- The US Technology sector posted strong returns relative to the S&P 500 Index for 1Q23. This strong outperformance, in the context of increasing economic pessimism, has prompted the question of if the sector may be counted as defensive one alongside others that are typically categorized as such (for example Consumer Staples, Healthcare, and Utilities). Research indicates however, that Technology tends to perform strongly versus the broader market, including its defensive sectors, when US Bank Reserves are increasing, as has been the case towards the end of the quarter, suggesting that Technology's recent outperformance is more a product of liquidity rather than economic durability<sup>10</sup>.

#### **ALTERNATIVE INVESTMENTS<sup>11</sup>**

- With property prices posting negative year-over-year comparisons and the office vacancy rate nearing a 20-year high, the commercial real estate (CRE) market may be vulnerable to adverse developments in interest rates or bank lending. More than half of the nearly \$2.9 trillion in CRE mortgages will be up for refinancing in the next 24 months, and regional banks account for 70% to 80% of the loans. Even if current rates stay flat, the new lending rates may well be higher. For building owners themselves, secular headwinds from the embrace of remote/hybrid work options pose additional complications that may accelerate CRE markdowns.
- The collapse of Silicon Valley Bank puts the spotlight on venture capital (VC) appearing over-valued and exposed to liquidity shortages. At current burn rates, it is estimated that the median VC-backed company will run out of cash in the second half of this year. Limited partners, (that is, the funds' investors), face more than \$500 billion of capital calls at a time when many portfolios have been marked only modestly lower. The impact of the potential collision of a need for cash versus a dearth of attractive value opportunities could be economically significant. VC-backed companies employ upward of five million workers and drive revenue in important public companies.
- The Private Equity industry sits on roughly \$2.3 trillion of so-called "dry powder" and can certainly insert itself right now as an opportunistic provider of capital for new vintage funds. However, investments made during the past two years face valuation markdowns and may themselves need capital that has been previously provided through other funding channels. But with unfunded capital calls still in front of many asset allocators and recent distributions scant, the fundraising environment could get tougher. Prior cycles have had 50% peak-to-trough declines in new capital raised.

<sup>&</sup>lt;sup>9</sup> Source: Morgan Stanley, Asia EM Equity Strategy, April 6, 2023

<sup>&</sup>lt;sup>10</sup> Source: Morgan Stanley, From the Director of Global Research, Charts That Caught My Eye, April 4, 2023

<sup>&</sup>lt;sup>11</sup> Source: Morgan Stanley, Global Investment Committee Weekly, April 3, 2023

#### Disclosure:

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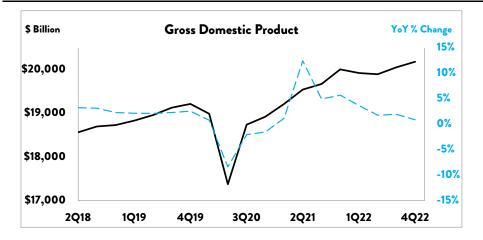
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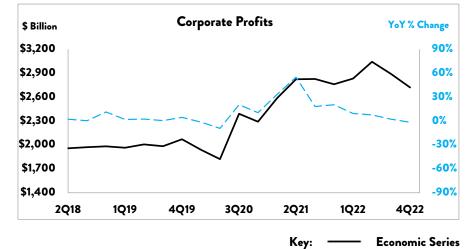
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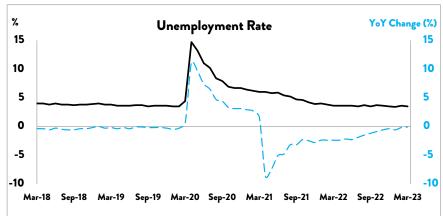
#### 1Q2023 Economic Data

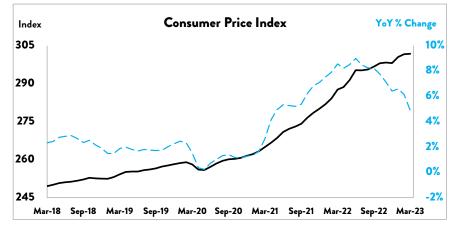




Labor Mar	ket Statis	tics (Montl	hly)		
Category	Recent	5-Yr High	5-Yr Low	5-Yr Avg.	Date
Jobs Added/Lost Monthly	236,000	4,505,000	-20,493,000	112,333	Mar-23
Unemployment Rate	3.5%	14.7%	3.4%	4.9%	Mar-23
Median Unemployment Length (Weeks)	9.6	22.2	4.0	11.1	Mar-23
Average Hourly Earnings	\$33.18	\$33.18	\$26.89	\$29.77	Mar-23

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





#### --- Year-Over-Year Change

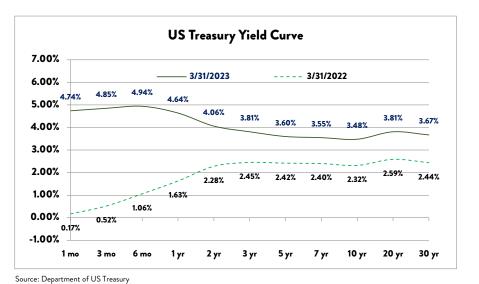
Other Pri	ces and In	dexes (Moi	nthly)		
Category	Recent	5-Yr High	5-Yr Low	% Off Peak	Date
Gas: Price per Gallon	\$3.40	\$4.84	\$1.80	-29.7%	Mar-23
Spot Oil	\$73.28	\$114.84	\$16.55	-36.2%	Mar-23
Case-Shiller Home Price Index	300.4	316.2	208.7	43.9%*	Jan-23
Medical Care CPI	547.0	557.4	483.5	13.1%*	Mar-23

\*% Off Low

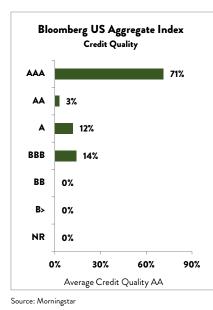
Morningstar data as of 3/31/2023

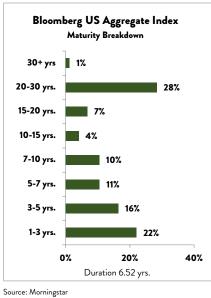
#### 1Q2023 Bond Market Data

Index	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
90-Day T-Bill	1.16%	1.16%	3.17%	1.12%	1.46%	0.91%
Bloomberg US Aggregate	2.96%	2.96%	-4.78%	-2.77%	0.91%	1.36%
Bloomberg Short US Treasury	1.15%	1.15%	2.27%	0.76%	1.43%	0.91%
Bloomberg Int. US Treasury	2.27%	2.27%	-1.54%	-2.33%	1.06%	0.90%
Bloomberg Long US Treasury	6.17%	6.17%	-16.00%	-11.33%	-0.35%	1.45%
Bloomberg US TIPS	3.34%	3.34%	-6.06%	1.75%	2.94%	1.49%
Bloomberg US Credit	3.45%	3.45%	-5.31%	-0.70%	1.54%	2.18%
Bloomberg US Mortgage-Backed	2.53%	2.53%	-4.85%	-3.31%	0.20%	1.00%
Bloomberg US Asset-Backed	1.86%	1.86%	0.37%	0.58%	1.63%	1.41%
Bloomberg US 20-Yr Municipal	3.22%	3.22%	-1.02%	0.16%	2.32%	2.97%
Bloomberg US High Yield	3.57%	3.57%	-3.34%	5.91%	3.21%	4.10%
Bloomberg Global	3.01%	3.01%	-8.07%	-3.43%	-1.34%	0.07%
Bloomberg International	3.06%	3.06%	-10.72%	-4.13%	-3.17%	-0.99%
Bloomberg Emerging Market	2.15%	2.15%	-4.64%	0.06%	0.31%	2.07%

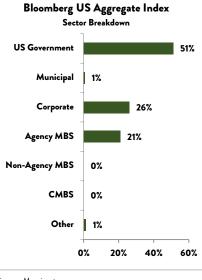


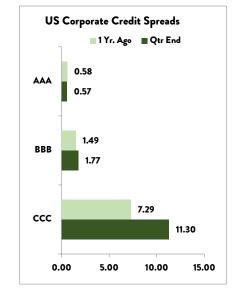
Source: Morningstar











Source: Morningstar

Source: Federal Reserve / Bank of America

## 1Q2023 US Equity Market Data

ctors Wei	ghts/Returns (ranked by quar	ter performan	ce)		Index Performance Da	ta							
8%	Communication Services	20.50%	20.50%	-17.76%									
° ^ 10%	Consumer Discretionary	16.13%	20.50 <i>%</i> 16.13%	-17.78%	Russell 1000 Value								
3%	Materials	4.29%	4.29%	-6.28%	Russell 1000 Value	_							
3 % 9%	Industrials	4.2 <i>9%</i> 3.47%	4.29% 3.47%	-0.28%	Russell Mid Cap								
3%	Real Estate	1.95%	1.95%	-19.69%	Russen Mild Cap								
3 % 7%	Consumer Staples	0.83%	0.83%	1.22%	Russell Mid Cap Grow	.h.							
3%	Utilities	-3.24%	-3.24%	-6.21%	Russen Mild Cap Grow	in							
3 <i>%</i> 14%	Health Care	-3.24%		-3.70%	Russell 2000 Value								
14 <i>%</i> 5%		-4.51%	-4.31% -4.67%	-3.70%	Russell 2000 Value								
5 <i>%</i> 13%	Energy Financials	-4.67%	-4.67%	-14.24%									
Wgt.	Sector	QTR	-3.30%	-14.24%									
10%	Information Technology	<b>4</b> .62%	14.62%	-0.83%									
22%	Industrials	8.55%	8.55%	4.07%									
15%	Consumer Discretionary	8.00%	8.00%	-0.23%	Small		Small Cap	o (Russell 2	000) - Lar	ge Cap (S8	P 500)		
7%	Materials	7.16%	7.16%	-3.49%	Beating Large			Perfo	rmance Spr	ead			
2%	Communication Services	4.42%	4.42%	-13.64%	10%				1			1.56%	
2% 4%	Consumer Staples	3.78%	3.78%	5.56%	0%			_		_	_	-	
4% 8%	Real Estate	0.98%	0.98%	-23.48%	-10% *	*	%6		*	3%			
9%	Health Care	0.98%	0.98%	-12.95%	-10% % 20% <del>7</del>	-3.88%	-1.09%	-6.48%	-4.21%	-2.33%	*		-5.96%
2% 4%	Utilities	-2.44%	-2.44%	-4.12%		•		Ŷ	•		-13.89%		ų
4 <i>%</i> 15%	Financials	-7.54%	-7.54%	-9.39%	-30%						Ŧ		
4%	Energy	-8.46%	-8.46%	-7.69%	<b>↓ -40%</b> <sup>Large</sup> OTR								
Wgt.	Sector	QTR	-0.40%	1 yr.	Large QTR Beating	1 yr.	3 yrs.	5 yrs.	10 yrs.	2022	2021	2020	2019
14%	Consumer Discretionary	12.73%	12.73%	-2.73%	Small								
2%	Communication Services	11.10%	11.10%	-20.63%	Growth		Growth (F	Russell 300	0 Growth)	- Value (R	ussell 300	0 Value)	
13%	Information Technology	10.10%	10.10%	-5.12%	Beating				Performan	e Spread			
6%	Materials	8.97%	8.97%	1.39%	Value <b>50%</b>							35.39%	
5%	Consumer Staples	8.49%	8.49%	11.03%	25% <sup>%</sup> 25% 21							32	~
18%	Industrials	7.74%	7.74%	4.67%	25% ជ		0.11%	5.71%	5.17%		0.48%		9.59%
11%	Health Care	-0.45%	-0.45%	-18.25%	0%		ö	_,			ö		
2%	Utilities	-0.45%	-0.45%	-1.84%		3%	-						
2 % 7%	Real Estate	-3.61%	-3.61%	-29.55%	-25%	-4.53%				%6			
5%	Energy	-8.46%	-8.46%	-5.68%	-50%	-				-20.99%			
16%	Financials	-11.51%	-11.51%	-19.75%	Value QTR	1 yr.	3 yrs.	5 yrs.	10 yrs.	2022	2021	2020	2019
IC/6		11.31/0	1.31%	12.7 570	Beating Growth								

-6.63%

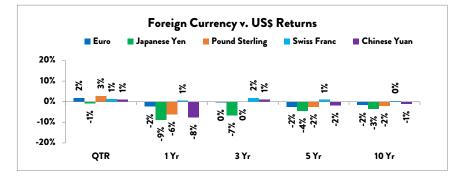
2018

6.46%

2018

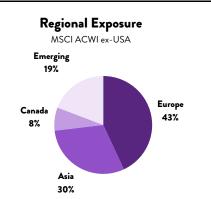
#### 1Q2023 International Market Data

Index Performance Data (net)						
Index (US\$)	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
MSCI ACWI ex-US	6.87%	6.87%	- <b>5.07%</b>	11.80%	2.47%	4.17%
MSCI EAFE	8.47%	8.47%	-1.38%	12.99%	3.52%	5.00%
Europe	10.56%	10.56%	1.38%	15.00%	4.35%	5.36%
United Kingdom	6.11%	6.11%	-0.84%	14.59%	2.98%	3.43%
Germany	14.69%	14.69%	2.24%	12.76%	0.40%	4.06%
France	14.62%	14.62%	8.79%	19.48%	6.20%	7.54%
Pacific	4.71%	4.71%	-6.01%	9.49%	2.02%	4.40%
Japan	6.19%	6.19%	-5.23%	7.39%	1.27%	5.03%
Hong Kong	-2.39%	-2.39%	-5.27%	4.59%	-0.50%	4.16%
Australia	2.79%	2.79%	-9.19%	20.18%	5.96%	3.36%
Canada	4.31%	4.31%	-13.09%	18.50%	6.56%	4.02%
MSCI EM	3.96%	3.96%	-10.70%	7.83%	- <b>0.9</b> 1%	2.00%
MSCI EM Latin America	3.93%	3.93%	-11.05%	18.15%	-1.84%	-1.86%
MSCI EM Asia	4.81%	4.81%	-9.44%	7.15%	0.15%	4.18%
MSCI EM Eur/Mid East	-1.23%	-1.23%	-16.64%	1.96%	-4.65%	-3.88%
MSCI ACWI Value ex-US	5.16%	5.16%	-4.00%	13.82%	1.26%	3.06%
MSCI ACWI Growth ex-US	8.59%	8.59%	-6.35%	9.49%	3.36%	5.08%
MSCI ACWI Sm Cap ex-US	4.70%	4.70%	-10.37%	15.04%	1.67%	5.06%

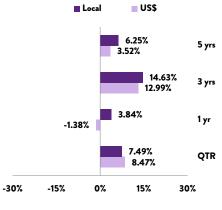


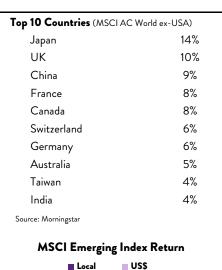
Exchange Rates	QTR	4Q22	3Q22	2Q22	1Q22	4Q21
Japanese Yen	132.75	131.81	144.71	135.69	121.44	115.17
Euro	0.92	0.93	1.02	0.96	0.90	0.88
British Pound	0.81	0.83	0.90	0.82	0.76	0.74
Swiss Franc	0.91	0.92	0.98	0.96	0.92	0.91
Chinese Yuan	6.87	6.90	7.11	6.70	6.34	6.37

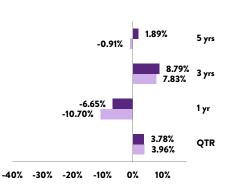
Source: Federal Reserve Bank of St. Louis



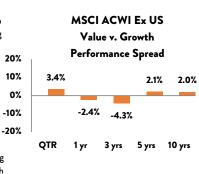












Performance Source: Morningstar

Small

Beating

Large

Large

Beating

Small

#### **Historical Market Returns**

Ranked by Performance

2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	YTD	1Q23
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 7.50%	Large Cap 7.50%
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%	Intl 6.87%	Intl 6.87%
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%	Global Balanced 5.75%	Global Balanced 5.75%
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%	Mid Cap 4.06%	Mid Cap 4.06%
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%	Emerging Markets 3.96%	Emerging Markets 3.96%
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%	High Yield 3.57%	High Yield 3.57%
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%	TIPS 3.34%	TIPS 3.34%
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%	Global Bonds 3.01%	Global Bonds 3.01%
Commod. -35.65%	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%	US Bonds 2.96%	US Bonds 2.96%
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%	Small Cap 2.74%	Small Cap 2.74%
Mid Cap -41.46%	US Bonds 5.93%	TIPS 6.31%	Commod. -13.32%	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%	Cash 1.16%	Cash 1.16%
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%	Core Real Estate -3.33%	Core Real Estate -3.33%
Emerging Markets -53.33%	Core Real Estate -30.40%	Cash 0.15%	Emerging Markets -18.42%	Commod. -1.06%	Commod. -9.52%	Commod. -17.00%	Commod. -24.60%	Cash 0.25%	Cash 0.71%	Emerging Markets -14.58%	Cash 2.30%	Commod. -3.12%	Global Bonds -4.71%	Small Cap 20.44%	Commod. -5.36%	Commod. -5.36%

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

Combined 457(b) DC Plans

## PLAN ASSET ALLOCATION

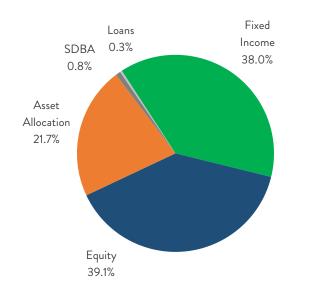
First Quarter 2023

Fixed Income	Ticker	Assets	%	Asset Allocation	Ticker	Assets	%
Voya Fixed Account	-	\$338,648,493	34.3%	Vanguard Target Retirement Income Trust II	-	\$40,951,191	4.2%
Vanguard Total Bond Market Index I	VBTIX	\$34,919,687	3.5%	Vanguard Target Retirement 2020 Trust II	-	\$11,952,184	1.2%
Sterling Capital Total Return Bond R6	STRDX	\$1,512,603	0.2%	Vanguard Target Retirement 2025 Trust II	-	\$42,861,867	4.3%
	Total	\$375,080,783	38.0%	Vanguard Target Retirement 2030 Trust II	-	\$14,905,715	1.5%
				Vanguard Target Retirement 2035 Trust II	-	\$51,420,050	5.2%
Large Cap	Ticker	Assets	%	Vanguard Target Retirement 2040 Trust II	-	\$8,428,933	0.9%
MFS Value R4	MEIJX	\$21,416,132	2.2%	Vanguard Target Retirement 2045 Trust II	-	\$26,527,488	2.7%
Vanguard Institutional Index Instl Plus	VIIIX	\$134,826,676	13.7%	Vanguard Target Retirement 2050 Trust II	-	\$5,675,707	0.6%
T. Rowe Price Growth Stock I	PRUFX	\$59,094,950	6.0%	Vanguard Target Retirement 2055 Trust II	-	\$7,650,321	0.8%
	Total	\$215,337,758	21.8%	Vanguard Target Retirement 2060 Trust II	-	\$2,370,050	0.2%
				Vanguard Target Retirement 2065 Trust II	-	\$1,340,864	0.1%
Mid Cap	Ticker	Assets	%	Vanguard Target Retirement 2070 Trust II	-	\$1,812	0.0%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$8,530,628	0.9%		Total	\$214,086,182	21.7%
Vanguard Extended Market Index Instl Plus	VEMPX	\$93,904,967	9.5%				
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$20,224,532	2.0%	Miscellaneous	Ticker	Assets	%
	Total	\$122,660,127	12.4%	Self-Directed Brokerage Account	-	\$7,931,880	0.8%
				Participant Loans	-	\$3,333,180	0.3%
International	Ticker	Assets	%		Total	\$11,265,060	1.1%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$41,831,859	4.2%				
American Funds EuroPacific Growth R6	RERGX	\$6,452,861	0.7%	TOTAL PLAN ASSETS		\$986,714,629	
	Total	\$48,284,719	4.9%	Administrative Account Balance (4/26/23)		\$216,434	

Combined 457(b) DC Plans

### PLAN ASSET ALLOCATION

First Quarter 2023



#### HISTORICAL PLAN ALLOCATION

Asset Class	1Q23	2022	2021	2020	2019	2018	2017	2016
Fixed Income	38.0%	39.7%	34.0%	36.7%	38.1%	43.8%	41.5%	N/A
Large Cap	21.8%	20.9%	24.4%	22.4%	21.8%	18.8%	20.4%	N/A
Mid Cap	12.4%	12.2%	14.5%	14.9%	14.4%	13.4%	14.2%	N/A
International	4.9%	4.8%	4.7%	4.3%	4.2%	4.0%	4.4%	N/A
Asset Allocation	21.7%	21.3%	21.3%	20.7%	20.7%	19.2%	18.7%	N/A
SDBA	0.8%	0.8%	0.9%	0.6%	0.4%	0.3%	0.3%	N/A
Loans	0.3%	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

First Quarter 2023

PLAN LEVEL (	CASH FLOWS						HISTO	RICAL PLAN	CASH FLOW	S	
		Cash Flow	Cash Flow		Market			Beginning		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value		Value	Net Cash Flow	Gain/Loss	Ending Value
Fixed Income	\$376,376,264	\$4,318,389	(\$10,750,488)	\$1,497,614	\$3,639,004	\$375,080,783	1Q23	\$944,760,930	(\$4,043,390)	\$42,663,910	\$983,381,450
Large Cap	\$197,972,174	\$3,184,035	(\$3,075,732)	(\$46,863)	\$17,304,144	\$215,337,758	YTD	\$944,760,930	(\$4,043,390)	\$42,663,910	\$983,381,450
Mid Cap	\$115,965,588	\$1,850,961	(\$2,086,465)	\$140,550	\$6,789,493	\$122,660,127	2022	\$1,103,984,931	(\$9,111,229)	(\$150,112,772)	\$944,760,930
International	\$45,150,710	\$908,808	(\$912,608)	(\$70,249)	\$3,208,058	\$48,284,719	2021	\$1,012,211,305	(\$19,402,347)	\$111,175,973	\$1,103,984,931
Asset Allocation	\$201,960,607	\$6,986,337	(\$4,497,791)	(\$1,544,095)	\$11,181,123	\$214,086,182	2020	\$890,766,732	\$942,462	\$120,502,111	\$1,012,211,305
SDBA	\$7,335,587	\$0	\$0	\$54,207	\$542,087	\$7,931,880	2019	\$771,229,524	(\$7,494,189)	\$127,031,396	\$890,766,732
Total	\$944,760,930	\$17,248,530	(\$21,323,083)	\$31,163	\$42,663,910	\$983,381,450					



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

457(b) Deferred Compensation Plan

### PLAN ASSET ALLOCATION

First Quarter 2023

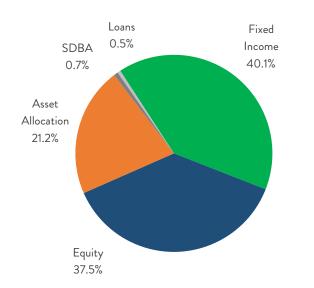
Fixed Income	Ticker	Assets	%	Asset Allocation	Ticker	Assets	%
Voya Fixed Account	-	\$239,736,783	36.7%	Vanguard Target Retirement Income Trust II	-	\$31,646,326	4.8%
Vanguard Total Bond Market Index I	VBTIX	\$22,012,966	3.4%	Vanguard Target Retirement 2020 Trust II	-	\$6,925,450	1.1%
Sterling Capital Total Return Bond R6	STRDX	\$577,663	0.1%	Vanguard Target Retirement 2025 Trust II	-	\$28,513,119	4.4%
	Total	\$262,327,412	40.1%	Vanguard Target Retirement 2030 Trust II	-	\$8,082,334	1.2%
				Vanguard Target Retirement 2035 Trust II	-	\$35,847,019	5.5%
Large Cap	Ticker	Assets	%	Vanguard Target Retirement 2040 Trust II	-	\$4,586,181	0.7%
MFS Value R4	MEIJX	\$13,744,379	2.1%	Vanguard Target Retirement 2045 Trust II	-	\$15,008,506	2.3%
Vanguard Institutional Index Instl Plus	VIIIX	\$86,380,796	13.2%	Vanguard Target Retirement 2050 Trust II	-	\$2,621,264	0.4%
T. Rowe Price Growth Stock I	PRUFX	\$37,145,559	5.7%	Vanguard Target Retirement 2055 Trust II	-	\$4,033,042	0.6%
	Total	\$137,270,734	21.0%	Vanguard Target Retirement 2060 Trust II	-	\$1,009,609	0.2%
				Vanguard Target Retirement 2065 Trust II	-	\$628,713	0.1%
Mid Cap	Ticker	Assets	%	Vanguard Target Retirement 2070 Trust II	-	\$1,276	0.0%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$4,732,071	0.7%		Total	\$138,902,839	21.2%
Vanguard Extended Market Index Instl Plus	VEMPX	\$61,041,870	9.3%				
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$13,197,049	2.0%	Miscellaneous	Ticker	Assets	%
	Total	\$78,970,991	12.1%	Self-Directed Brokerage Account	-	\$4,512,988	0.7%
				Participant Loans	-	\$3,328,646	0.5%
International	Ticker	Assets	%		Total	\$7,841,634	1.2%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$25,001,471	3.8%				
American Funds EuroPacific Growth R6	RERGX	\$3,773,723	0.6%	TOTAL PLAN ASSETS		\$654,088,804	
	Total	\$28,775,194	4.4%	Administrative Account Balance (4/26/23)		\$216,434	

#### STATE EMPLOYEES PLAN

457(b) Deferred Compensation Plan

### PLAN ASSET ALLOCATION

First Quarter 2023



#### HISTORICAL PLAN ALLOCATION

Asset Class	1Q23	2022	2021	2020	2019	2018	2017	2016
Fixed Income	40.1%	41.7%	35.4%	38.0%	40.1%	44.9%	42.8%	N/A
Large Cap	21.0%	20.0%	23.7%	21.5%	20.6%	18.6%	19.1%	N/A
Mid Cap	12.1%	11.8%	14.2%	14.5%	13.8%	12.6%	13.6%	N/A
International	4.4%	4.3%	4.2%	3.8%	3.5%	3.4%	4.0%	N/A
Asset Allocation	21.2%	20.9%	21.3%	21.2%	21.1%	19.4%	19.6%	N/A
SDBA	0.7%	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

#### STATE EMPLOYEES PLAN

457(b) Deferred Compensation Plan

## PLAN ASSET ALLOCATION

First Quarter 2023

PLAN LEVEL C	ASH FLOWS						HISTC	RICAL PLAN	CASH FLOW	S	
		Cash Flow	Cash Flow		Market					Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value		Beginning Value	Net Cash Flow	Gain/Loss	Ending Value
Fixed Income	\$263,490,009	\$2,811,939	(\$7,193,579)	\$727,032	\$2,492,010	\$262,327,412	1Q23	\$628,030,428	(\$4,478,861)	\$27,208,591	\$650,760,157
Large Cap	\$126,283,625	\$2,026,964	(\$2,070,611)	\$63,739	\$10,967,018	\$137,270,734	YTD	\$628,030,428	(\$4,478,861)	\$27,208,591	\$650,760,157
Mid Cap	\$74,821,338	\$1,203,777	(\$1,724,672)	\$250,457	\$4,420,090	\$78,970,991	2022	\$736,232,396	(\$11,933,591)	(\$96,268,377)	\$628,030,428
International	\$27,010,437	\$560,249	(\$630,671)	(\$75,838)	\$1,911,017	\$28,775,194	2021	\$680,605,231	(\$16,866,120)	\$72,493,284	\$736,232,396
Asset Allocation	\$132,185,598	\$3,961,387	(\$3,441,010)	(\$996,864)	\$7,193,728	\$138,902,839	2020	\$608,234,330	(\$6,442,157)	\$78,813,059	\$680,605,231
SDBA	\$4,239,420	\$0	\$0	\$48,839	\$224,728	\$4,512,988	2019	\$537,863,111	(\$14,358,576)	\$84,729,795	\$608,234,330
Total	\$628,030,428	\$10,564,316	(\$15,060,543)	\$17,365	\$27,208,591	\$650,760,157					



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

Aggregate Bond (rebalanced quarterly)

#### POLITICAL SUBDIVISIONS

457(b) Deferred Compensation Plan

### PLAN ASSET ALLOCATION

First Quarter 2023

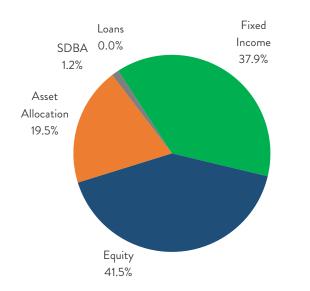
Fixed Income	Ticker	Assets	%	Asset Allocation	Ticker	Assets	%
Voya Fixed Account	-	\$83,499,381	34.1%	Vanguard Target Retirement Income Trust II	-	\$4,506,170	1.8%
Vanguard Total Bond Market Index I	VBTIX	\$8,895,234	3.6%	Vanguard Target Retirement 2020 Trust II	-	\$2,432,709	1.0%
Sterling Capital Total Return Bond R6	STRDX	\$524,189	0.2%	Vanguard Target Retirement 2025 Trust II	-	\$8,248,542	3.4%
	Total	\$92,918,805	37.9%	Vanguard Target Retirement 2030 Trust II	-	\$3,581,244	1.5%
				Vanguard Target Retirement 2035 Trust II	-	\$10,606,808	4.3%
Large Cap	Ticker	Assets	%	Vanguard Target Retirement 2040 Trust II	-	\$2,372,916	1.0%
MFS Value R4	MEIJX	\$6,111,318	2.5%	Vanguard Target Retirement 2045 Trust II	-	\$8,965,131	3.7%
Vanguard Institutional Index Instl Plus	VIIIX	\$33,697,057	13.7%	Vanguard Target Retirement 2050 Trust II	-	\$2,272,223	0.9%
T. Rowe Price Growth Stock I	PRUFX	\$16,924,773	6.9%	Vanguard Target Retirement 2055 Trust II	-	\$2,957,920	1.2%
	Total	\$56,733,147	23.1%	Vanguard Target Retirement 2060 Trust II	-	\$1,281,756	0.5%
				Vanguard Target Retirement 2065 Trust II	-	\$450,853	0.2%
Mid Cap	Ticker	Assets	%	Vanguard Target Retirement 2070 Trust II	-	\$463	0.0%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$2,406,117	1.0%		Total	\$47,676,735	19.5%
Vanguard Extended Market Index Instl Plus	VEMPX	\$24,415,669	10.0%				
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$4,313,974	1.8%	Miscellaneous	Ticker	Assets	%
	Total	\$31,135,759	12.7%	Self-Directed Brokerage Account	-	\$2,879,737	1.2%
				Participant Loans	-	\$4,533	0.0%
International	Ticker	Assets	%		Total	\$2,884,270	1.2%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$12,309,761	5.0%				
American Funds EuroPacific Growth R6	RERGX	\$1,438,952	0.6%	TOTAL PLAN ASSETS	5	\$245,097,429	
	Total	\$13,748,714	5.6%				

#### **POLITICAL SUBDIVISIONS**

457(b) Deferred Compensation Plan

#### PLAN ASSET ALLOCATION

First Quarter 2023



#### HISTORICAL PLAN ALLOCATION

Asset Class	1Q23	2022	2021	2020	2019	2018	2017	2016
Fixed Income	37.9%	39.6%	34.5%	37.9%	37.5%	46.2%	42.5%	N/A
Large Cap	23.1%	22.3%	25.5%	24.5%	24.4%	17.5%	22.8%	N/A
Mid Cap	12.7%	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	19.5%	18.9%	18.0%	16.2%	16.6%	15.6%	14.0%	N/A
SDBA	1.2%	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

First Quarter 2023

PLAN LEVEL O	CASH FLOWS						HISTC	RICAL PLAN	CASH FLOWS	5	
		Cash Flow	Cash Flow		Market					Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value		Beginning Value	Net Cash Flow	Gain/Loss	Ending Value
Fixed Income	\$92,330,577	\$1,279,256	(\$2,075,755)	\$490,180	\$894,546	\$92,918,805	1Q23	\$233,192,231	\$916,936	\$10,983,728	\$245,092,896
Large Cap	\$51,934,246	\$844,084	(\$845,063)	\$180,311	\$4,619,569	\$56,733,147	YTD	\$233,192,231	\$916,936	\$10,983,728	\$245,092,896
Mid Cap	\$29,364,064	\$497,901	(\$231,762)	(\$176,702)	\$1,682,258	\$31,135,759	2022	\$268,237,618	\$2,772,040	(\$37,817,427)	\$233,192,231
International	\$12,840,868	\$268,329	(\$205,989)	(\$54,380)	\$899,885	\$13,748,714	2021	\$244,053,779	(\$3,563,244)	\$27,747,083	\$268,237,618
Asset Allocation	\$44,159,455	\$2,247,630	(\$875,495)	(\$430,978)	\$2,576,122	\$47,676,735	2020	\$211,520,904	\$2,964,561	\$29,568,315	\$244,053,779
SDBA	\$2,563,021	\$0	\$0	\$5,367	\$311,349	\$2,879,737	2019	\$174,082,438	\$7,146,048	\$30,292,417	\$211,520,904
Total	\$233,192,231	\$5,137,201	(\$4,234,062)	\$13,798	\$10,983,728	\$245,092,896					



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

Aggregate Bond (rebalanced quarterly)

457(b) Deferred Compensation Plan

#### PLAN ASSET ALLOCATION

First Quarter 2023

Fixed Income	Ticker	Assets	%	Asset Allocation	Ticker	Assets	%
Voya Fixed Account	-	\$15,412,329	17.6%	Vanguard Target Retirement Income Trust II	-	\$4,798,696	5.5%
Vanguard Total Bond Market Index I	VBTIX	\$4,011,486	4.6%	Vanguard Target Retirement 2020 Trust II	-	\$2,594,025	3.0%
Sterling Capital Total Return Bond R6	STRDX	\$410,750	0.5%	Vanguard Target Retirement 2025 Trust II	-	\$6,100,206	7.0%
	Total	\$19,834,566	22.7%	Vanguard Target Retirement 2030 Trust II	-	\$3,242,136	3.7%
				Vanguard Target Retirement 2035 Trust II	-	\$4,966,223	5.7%
Large Cap	Ticker	Assets	%	Vanguard Target Retirement 2040 Trust II	-	\$1,469,836	1.7%
MFS Value R4	MEIJX	\$1,560,435	1.8%	Vanguard Target Retirement 2045 Trust II	-	\$2,553,852	2.9%
Vanguard Institutional Index Instl Plus	VIIIX	\$14,748,823	16.9%	Vanguard Target Retirement 2050 Trust II	-	\$782,220	0.9%
T. Rowe Price Growth Stock I	PRUFX	\$5,024,618	5.7%	Vanguard Target Retirement 2055 Trust II	-	\$659,359	0.8%
	Total	\$21,333,877	24.4%	Vanguard Target Retirement 2060 Trust II	-	\$78,686	0.1%
				Vanguard Target Retirement 2065 Trust II	-	\$261,297	0.3%
Mid Cap	Ticker	Assets	%	Vanguard Target Retirement 2070 Trust II	-	\$73	0.0%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$1,392,440	1.6%		Total	\$27,506,609	31.4%
Vanguard Extended Market Index Instl Plus	VEMPX	\$8,447,428	9.7%				
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$2,713,509	3.1%	Miscellaneous	Ticker	Assets	%
	Total	\$12,553,378	14.3%	Self-Directed Brokerage Account	-	\$539,156	0.6%
					Total	\$539,156	0.6%

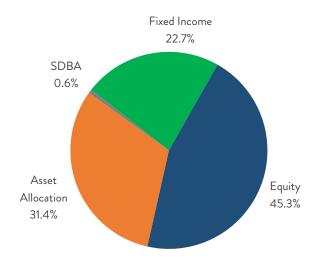
International	Ticker	Assets	%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$4,520,626	5.2%
American Funds EuroPacific Growth R6	RERGX	\$1,240,186	1.4%
	Total	\$5,760,812	6.6%

\$87,528,396

457(b) Deferred Compensation Plan

#### PLAN ASSET ALLOCATION

First Quarter 2023



#### HISTORICAL PLAN ALLOCATION

Asset Class	1Q23	2022	2021	2020	2019	2018	2017	2016
Fixed Income	22.7%	24.6%	22.3%	22.9%	22.4%	27.3%	26.9%	N/A
Large Cap	24.4%	23.7%	26.1%	24.4%	24.4%	24.1%	24.7%	N/A
Mid Cap	14.3%	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	31.4%	30.7%	29.4%	29.1%	29.9%	26.8%	24.7%	N/A
SDBA	0.6%	0.6%	0.6%	0.5%	0.3%	0.3%	0.1%	N/A

	EQUITY STYLE* BY EQUITY REGION*				ACTIVE V PASSIVE**				
	Core Growth	Growth Value US Non-US		US Non-US	Active Passive				
Q23	69.9%	22.6% 7.4 <mark>%</mark>	1Q23		1Q23	39.8%	60.2%		
2022	70.6%	21.5% 7. <mark>9%</mark>	2022		2022	41.3%	58.7%		
2021	65.9%	28.8% 5.3 <mark>%</mark>	2021		2021	41.8%	58.2%		
020	63.5%	31.5% 5.0%	2020		2020	50.4%	49.6%		
2019	69.0%	26.0% 5.0%	2019		2019	58.6%	41.4%		
2018	64.9%	21.7% <b>13.5%</b>	2018		2018	63.6%	36.4%		
2017	65.7%	19.3% 15.0%	2017		2017	61.2%	38.8%		

\*Excludes Fixed Income, Asset Allocation, and Brokerage assets

\*\*Excludes Asset Allocation and Loan assets

#### PLAN ASSET ALLOCATION

First Quarter 2023

PLAN LEVEL C	CASH FLOWS						HISTO	ORICAL PLAN		S	
		Cash Flow	Cash Flow		Market					Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value		Beginning Value	Net Cash Flow	Gain/Loss	Ending Value
Fixed Income	\$20,555,677	\$227,193	(\$1,481,155)	\$280,402	\$252,448	\$19,834,566	1Q23	\$83,538,271	(\$481,465)	\$4,471,591	\$87,528,396
Large Cap	\$19,754,303	\$312,987	(\$160,059)	(\$290,913)	\$1,717,557	\$21,333,877	YTD	\$83,538,271	(\$481,465)	\$4,471,591	\$87,528,396
Mid Cap	\$11,780,186	\$149,282	(\$130,031)	\$66,794	\$687,146	\$12,553,378	2022	\$99,514,917	\$50,322	(\$16,026,968)	\$83,538,271
International	\$5,299,404	\$80,230	(\$75,948)	\$59,969	\$397,156	\$5,760,812	2021	\$87,552,294	\$1,027,017	\$10,935,606	\$99,514,917
Asset Allocation	\$25,615,555	\$777,320	(\$181,286)	(\$116,253)	\$1,411,274	\$27,506,609	2020	\$71,011,498	\$4,420,058	\$12,120,738	\$87,552,294
SDBA	\$533,146	\$0	\$0	\$0	\$6,010	\$539,156	2019	\$59,283,975	(\$281,661)	\$12,009,184	\$71,011,498
Total	\$83,538,271	\$1,547,013	(\$2,028,478)	\$0	\$4,471,591	\$87,528,396					



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

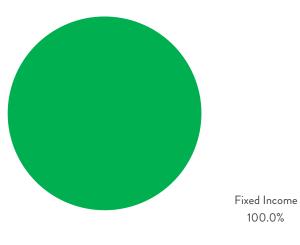
Aggregate Bond (rebalanced quarterly)

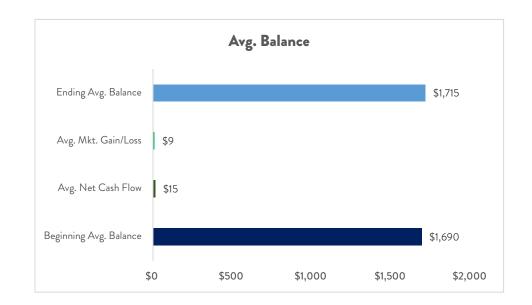
First Quarter 2023

				HISTO	RICAL PLAN CAS	H FLOWS		
Fixed Income	Ticker	Assets	%		Beginning Value	Net Cash Flow	Market Gain/Loss	Ending Value
Voya Fixed Account - FICA	-	\$59,447,230	100.0%	1Q23	\$58,595,787	\$523,093	\$328,349	\$59,447,230
	Total	\$59,447,230	100.0%	YTD	\$58,595,787	\$523,093	\$328,349	\$59,447,230
				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		\$59,447,230						

Administrative Account Balance (4/26/23)







# Section 3

Combined Retirement Plans

## INVESTMENT POLICY STATEMENT COMPLIANCE REPORT

First 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
T. Rowe Price Growth Stock I	•	P	1Q22 (Performance)	Trailing benchmark and Peer Group for 5-year period. To be replaced with JP Morgan Large Growth R6 (JLGMX).	4Q2017
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	-	Trailing Peer Group for 5-year period.	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

				ļ	Annualize	ed						
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Voya Fixed Account	0.74	0.74	3.00	3.06	2.91			3.00	3.10	3.10	2.70	2.54
5 Yr Constant Maturity US Treasury Yield	0.94	0.94	3.49	1.68	1.88	1.75	1.75	3.00	0.85	0.54	1.96	2.75
+/- Index	(0.20)	(0.20)	(0.49)	1.38	1.03	-	-	0.00	2.25	2.56	0.74	(0.21)
US Stable Value	6	6	1	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	0.56	2.25	2.25	1.99			2.25	2.25	2.25	1.50	1.50
5 Yr Constant Maturity US Treasury Yield	0.94	0.94	3.49	1.68	1.88	1.75	1.75	3.00	0.85	0.54	1.96	2.75
+/- Index	(0.38)	(0.38)	(1.24)	0.57	0.11	-	-	(0.75)	1.40	1.71	(0.46)	(1.25)
US Stable Value	46	46	15	5	25	-	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	3.16	3.16	4.70	2.77	0.93	1.34	2.70	13.15	1.65	7.74	8.73	0.01
Bloomberg US Aggregate Bond Index	2.96	2.96	-4.78	-2.77	0.91	1.36	2.71	-13.01	-1.54	7.51	8.72	0.01
+/- Index	0.20	0.20	0.08	0.00	0.02	(0.02)	(0.01)	(0.14)	(0.11)	0.23	0.01	(0.02)
US Fund Intermediate Core Bond	44	44	25	76	37	40	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	3.01	3.01	4.68	1.34	1.36	1.85	3.41	13.15	1.12	9.35	9.37	0.27
Bloomberg US Aggregate Bond Index	2.96	2.96	-4.78	-2.77	0.91	1.36	2.71	-13.01	-1.54	7.51	8.72	0.01
+/- Index	0.05	0.05	0.10	1.43	0.45	0.49	0.70	(0.14)	0.42	1.84	0.65	(0.28)
US Fund Intermediate Core Bond	58	58	23	14	12	8	N/A	34	28	15	18	42
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
MFS Value R4	1.46	1.46	3.78	16.59	7.87	9.75	8.32	5.90	25.42	3.91	30.08	9.87
Russell 1000 Value Index	1.01	1.01	-5.91	17.93	7.50	9.13	7.68	-7.54	25.16	2.80	26.54	-8.27
+/- Index	(2.47)	(2.47)	2.13	(1.34)	0.37	0.62	0.64	1.64	0.26	1.11	3.54	(1.60)
US Fund Large Value	83	83	30	74	45	26	N/A	53	59	37	7	68

		Annualized										
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Institutional Index Instl Plus	7.49	7.49	7.75	18.59	11.18	12.23	10.07	18.13	28.69	18.41	31.48	4.41
S&P 500 Index	7.50	7.50	-7.73	18.60	11.19	12.24	10.06	-18.11	28.71	18.40	31.49	-4.38
+/- Index	(0.01)	(0.01)	(0.02)	(0.01)	(0.01)	(0.01)	0.01	(0.02)	(0.02)	0.01	0.00	(0.02)
US Fund Large Blend	20	20	52	25	15	9	N/A	49	21	32	22	22
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
T. Rowe Price Growth Stock I	16.17	16.17	18.06	10.35	7.48	12.19	10.42	40.05	20.18	37.09	30.98	0.89
Russell 1000 Growth Index	14.37	14.37	-10.90	18.58	13.66	14.59	12.11	-29.14	27.60	38.49	36.39	-1.51
+/- Index	1.80	1.80	(7.16)	(8.23)	(6.18)	(2.40)	(1.69)	(10.91)	(7.42)	(1.40)	(5.41)	0.62
US Fund Large Growth	19	19	86	89	86	52	N/A	91	60	40	63	40
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Mid-Cap Value Index Adm	0.36	0.36	8.26	20.86	6.61	9.46	9.28	7.90	28.76	2.54	27.99	12.42
Vanguard US Mid Cap Value Index	-0.36	-0.36	-8.23	20.89	6.63	9.50	9.32	-7.84	28.83	2.50	28.05	-12.42
+/- Index	0.00	0.00	(0.03)	(0.03)	(0.02)	(0.04)	(0.04)	(0.06)	(0.07)	0.04	(0.06)	0.00
US Fund Mid-Cap Value	86	86	78	60	47	18	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	5.86	5.86	14.13	17.16	6.06	8.94	8.93	26.45	12.48	32.24	28.07	9.35
Vanguard Extended Market Index	5.80	5.80	-14.27	17.04	5.93	8.81	8.82	-26.54	12.35	32.17	27.95	-9.57
+/- Index	0.06	0.06	0.14	0.12	0.13	0.13	0.11	0.09	0.13	0.07	0.12	0.22
US Fund Mid-Cap Blend	17	17	90	74	70	52	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	8.74	8.74	11.75	16.18	9.28	10.55	9.37	28.84	20.48	34.48	33.86	5.60
Vanguard US Mid Cap Growth Index	8.76	8.76	-11.72	16.22	9.33	10.57	9.34	-28.83	20.51	34.56	33.93	-5.57
+/- Index	(0.02)	(0.02)	(0.03)	(0.04)	(0.05)	(0.02)	0.03	(0.01)	(0.03)	(0.08)	(0.07)	(0.04)
US Fund Mid-Cap Growth	32	32	54	28	32	47	N/A	55	15	54	49	56

				A	Annualize	d						
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Instl Total Intl Stock Mkt Index Trust	6.71	6.71	4.51	12.80	2.62			15.92	8.73	11.48	21.68	14.35
Vanguard Total International Stock Index	6.42	6.42	-5.71	12.47	2.61	4.48	2.76	-16.10	8.84	11.24	21.81	-14.62
+/- Index	0.29	0.29	1.20	0.33	0.01	-	-	0.18	(0.11)	0.24	(0.13)	0.27
US Fund Foreign Large Blend	81	81	79	51	59	-	N/A	50	63	38	58	38
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
American Funds EuroPacific Growth R6	9.87	9.87	3.26	12.13	3.25	5.99	4.33	22.72	2.84	25.27	27.40	14.91
MSCI ACWI Ex-USA (Net) Index	6.87	6.87	-5.07	11.80	2.47	4.17	2.62	-16.00	7.82	10.65	21.51	-14.20
+/- Index	3.00	3.00	1.81	0.33	0.78	1.82	1.71	(6.72)	(4.98)	14.61	5.89	(0.71)
US Fund Foreign Large Blend	14	14	65	67	37	9	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	4.27	4.27	4.47	3.87	3.31	3.84	4.41	12.73	5.25	10.08	13.28	2.00
Vanguard Retirement Income Index	4.13	4.13	-4.45	4.06	3.52	4.03	4.52	-12.44	5.43	10.70	13.40	-1.98
+/- Index	0.14	0.14	(0.02)	(0.19)	(0.21)	(0.19)	(0.11)	(0.29)	(0.18)	(0.63)	(0.12)	(0.03)
US Fund Target-Date Retirement	32	32	29	51	26	26	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	4.78	4.78	5.22	6.93	4.36	5.84	5.63	14.14	8.24	12.10	17.69	4.19
Vanguard Retirement 2020 Index	4.67	4.67	-5.12	7.17	4.66	6.06	5.79	-13.77	8.43	12.86	17.87	-4.14
+/- Index	0.11	0.11	(0.10)	(0.24)	(0.30)	(0.22)	(0.16)	(0.37)	(0.19)	(0.76)	(0.18)	(0.05)
US Fund Target-Date 2020	25	25	28	53	31	19	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	5.33	5.33	5.79	8.42	4.88	6.45	5.99	15.44	9.90	13.39	19.75	5.07
Vanguard Retirement 2025 Index	5.21	5.21	-5.68	8.69	5.21	6.68	6.16	-15.02	10.10	14.19	19.93	-5.01
+/- Index	0.12	0.12	(0.11)	(0.27)	(0.33)	(0.23)	(0.17)	(0.42)	(0.20)	(0.79)	(0.18)	(0.07)
US Fund Target-Date 2025	14	14	43	30	21	14	N/A	48	45	29	17	43

				Þ	Annualize	d						
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2030 Trust II	5.65	5.65	6.14	9.74	5.30	6.97	6.27	16.16	11.46	14.19	21.15	5.79
Vanguard Retirement 2030 Index	5.59	5.59	-6.00	10.03	5.64	7.21	6.46	-15.71	11.65	14.96	21.33	-5.74
+/- Index	0.06	0.06	(0.14)	(0.29)	(0.34)	(0.24)	(0.19)	(0.45)	(0.19)	(0.78)	(0.18)	(0.05)
US Fund Target-Date 2030	18	18	38	42	28	21	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	5.94	5.94	6.29	11.22	5.77	7.52	6.65	16.52	13.07	14.92	22.57	6.54
Vanguard Retirement 2035 Index	5.87	5.87	-6.21	11.48	6.10	7.76	6.82	-16.22	13.24	15.67	22.76	-6.48
+/- Index	0.07	0.07	(0.08)	(0.26)	(0.33)	(0.24)	(0.17)	(0.30)	(0.17)	(0.75)	(0.19)	(0.06)
US Fund Target-Date 2035	26	26	32	58	31	26	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	6.21	6.21	6.50	12.65	6.20	7.99	7.00	16.94	14.68	15.57	23.97	7.30
Vanguard Retirement 2040 Index	6.16	6.16	-6.43	12.93	6.56	8.25	7.18	-16.51	14.85	16.31	24.19	-7.22
+/- Index	0.05	0.05	(0.07)	(0.28)	(0.36)	(0.26)	(0.18)	(0.43)	(0.17)	(0.73)	(0.22)	(0.08)
US Fund Target-Date 2040	34	34	31	61	29	21	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	6.49	6.49	6.67	14.10	6.65	8.29	7.19	17.33	16.33	16.27	25.07	7.86
Vanguard Retirement 2045 Index	6.44	6.44	-6.66	14.38	7.01	8.55	7.38	-16.84	16.45	17.03	25.36	-7.77
+/- Index	0.05	0.05	(0.01)	(0.28)	(0.36)	(0.26)	(0.19)	(0.49)	(0.12)	(0.76)	(0.29)	(0.10)
US Fund Target-Date 2045	28	28	32	42	22	18	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	6.62	6.62	6.70	14.22	6.73	8.32	7.22	17.45	16.60	16.42	25.05	7.83
Vanguard Retirement 2050 Index	6.58	6.58	-6.72	14.51	7.08	8.59	7.41	-17.07	16.77	17.18	25.36	-7.77
+/- Index	0.04	0.04	0.02	(0.29)	(0.35)	(0.27)	(0.19)	(0.38)	(0.17)	(0.76)	(0.31)	(0.06)
US Fund Target-Date 2050	25	25	28	42	21	18	N/A	28	62	35	42	32

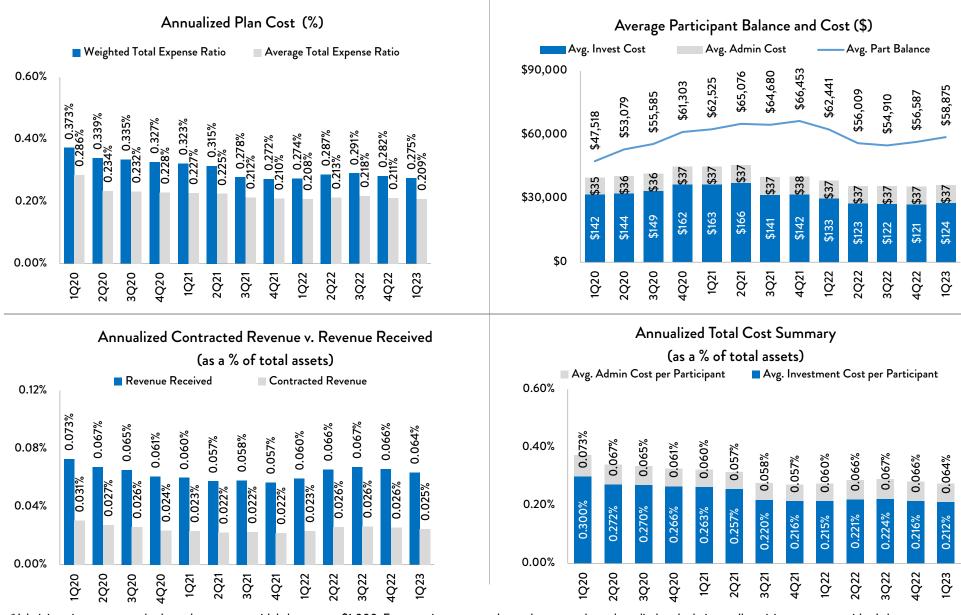
	Annualized											
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2055 Trust II	6.65	6.65	6.68	14.23	6.73	8.31		17.44	16.59	16.41	25.07	7.85
Vanguard Retirement 2055 Index	6.58	6.58	-6.72	14.51	7.08	8.59	-	-17.07	16.77	17.18	25.36	-7.77
+/- Index	0.07	0.07	0.04	(0.28)	(0.35)	(0.28)	-	(0.37)	(0.18)	(0.76)	(0.29)	(0.09)
US Fund Target-Date 2055	28	28	28	51	22	23	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	6.67	6.67	6.65	14.26	6.75	8.34		17.41	16.56	16.50	25.09	7.85
Vanguard Retirement 2060 Index	6.58	6.58	-6.72	14.51	7.08	8.59	-	-17.07	16.77	17.18	25.36	-7.77
+/- Index	0.09	0.09	0.07	(0.25)	(0.33)	(0.25)	-	(0.34)	(0.21)	(0.68)	(0.27)	(0.09)
US Fund Target-Date 2060	28	28	26	55	23	13	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	6.67	6.67	6.62	14.26	6.76			17.40	16.54	16.45	25.11	7.70
Vanguard Retirement 2065 Index	6.58	6.58	-6.72	14.51	7.08	-	-	-17.07	16.77	17.18	25.36	-7.77
+/- Index	0.09	0.09	0.10	(0.25)	(0.32)	-	-	(0.33)	(0.23)	(0.73)	(0.25)	0.07
US Fund Target-Date 2065+	34	34	17	58	19	-	N/A	18	64	51	59	-
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2070 Trust II	6.59	6.59										
Vanguard Retirement 2070 Index	6.58	6.58	-	-	-	-	-	-	-	-	-	-
+/- Index	0.01	0.01	-	-	-	-	-	-	-	-	-	-
US Fund Target-Date 2065+	36	36	-	-	-	-	N/A	-	-	-	-	-

# Section 4

Combined 457(b) DC Plans

#### PLAN FEE ANALYSIS

First Quarter 2023



\*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.

Combined 457(b) DC Plans

## PLAN FEE ANALYSIS

First Quarter 2023

4	· · ·
Annual	lized

		Quarter End			Est. Total Invest.	Est. Total Admin.
Fund	Ticker	Balance	Net Expense Ratio	Admin Fee	Cost	Cost
Voya Fixed Account	-	\$338,648,493	0.400%	0.06%	\$1,354,594	\$215,078
Vanguard Total Bond Market Index I	VBTIX	\$34,919,687	0.035%	0.06%	\$12,222	\$22,178
Sterling Capital Total Return Bond R6	STRDX	\$1,512,603	0.350%	0.06%	\$5,294	\$961
MFS Value R4*	MEIJX	\$21,416,132	0.400%	0.06%	\$85,665	\$13,602
Vanguard Institutional Index Instl Plus	VIIIX	\$134,826,676	0.020%	0.06%	\$26,965	\$85,629
T. Rowe Price Growth Stock I	PRUFX	\$59,094,950	0.510%	0.06%	\$301,384	\$37,532
Vanguard Mid-Cap Value Index Adm	VMVAX	\$8,530,628	0.070%	0.06%	\$5,971	\$5,418
Vanguard Extended Market Index Instl Plus	VEMPX	\$93,904,967	0.040%	0.06%	\$37,562	\$59,640
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$20,224,532	0.070%	0.06%	\$14,157	\$12,845
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$41,831,859	0.080%	0.06%	\$33,465	\$26,568
American Funds EuroPacific Growth R6	RERGX	\$6,452,861	0.460%	0.06%	\$29,683	\$4,098
Vanguard Target Retirement Income Trust II	-	\$40,951,191	0.075%	0.06%	\$30,713	\$26,008
Vanguard Target Retirement 2020 Trust II	-	\$11,952,184	0.075%	0.06%	\$8,964	\$7,591
Vanguard Target Retirement 2025 Trust II	-	\$42,861,867	0.075%	0.06%	\$32,146	\$27,222
Vanguard Target Retirement 2030 Trust II	-	\$14,905,715	0.075%	0.06%	\$11,179	\$9,467
Vanguard Target Retirement 2035 Trust II	-	\$51,420,050	0.075%	0.06%	\$38,565	\$32,657
Vanguard Target Retirement 2040 Trust II	-	\$8,428,933	0.075%	0.06%	\$6,322	\$5,353
Vanguard Target Retirement 2045 Trust II	-	\$26,527,488	0.075%	0.06%	\$19,896	\$16,848
Vanguard Target Retirement 2050 Trust II	-	\$5,675,707	0.075%	0.06%	\$4,257	\$3,605
Vanguard Target Retirement 2055 Trust II	-	\$7,650,321	0.075%	0.06%	\$5,738	\$4,859
Vanguard Target Retirement 2060 Trust II	-	\$2,370,050	0.075%	0.06%	\$1,778	\$1,505
Vanguard Target Retirement 2065 Trust II	-	\$1,340,864	0.075%	0.06%	\$1,006	\$852
Vanguard Target Retirement 2070 Trust II	-	\$1,812	0.075%	0.06%	\$1	\$1
Self-Directed Brokerage Account	-	\$7,931,880	-	0.06%	-	\$5,038
TOTAL		\$983,381,450			\$2,067,528	\$624,553

Plan Administration Cost	Quarter	Annualized
Plan Generated Revenue (\$41.00 per ppt with >\$1,000 bal) (est):	\$156,138	\$624,553
Contracted Revenue (\$14.50 per participant) (est):	\$60,548	\$242,194
Net Excess/(Deficit) (est):	\$95,590	\$382,360

\*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.

#### **STATE OF NEVADA**

#### **FICA Alternative OBRA Plan**

#### **PLAN FEE ANALYSIS**

First Quarter 2023

\$1,709

4Q22

1Q23

0.128%

0.400%

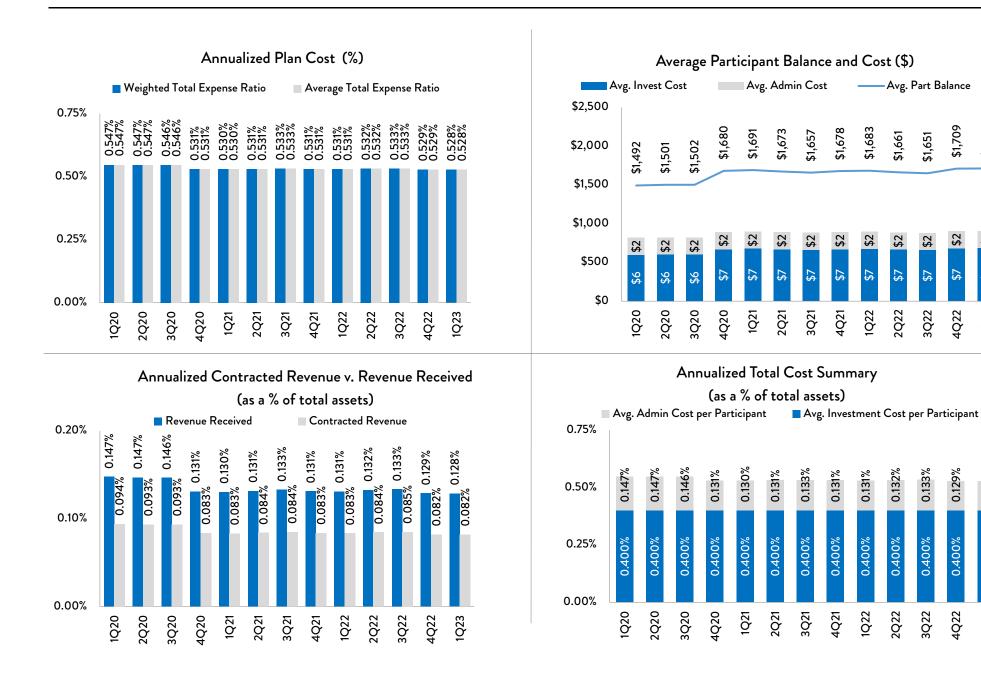
1Q23

0.129%

0.400%

4Q22

\$1,712



#### FICA Alternative OBRA Plan

#### PLAN FEE ANALYSIS

First Quarter 2023

Annualized

Fund	Ticker	Quarter End Balance	Net Expense Ratio	Admin Fee	Est. Total Invest. Cost	Est. Total Admin. Cost
Voya Fixed Account - FICA	-	\$59,447,230	0.40%	0.13%	\$237,789	\$76,384
TOTAL		\$59,447,230			\$237,789	\$76,384
Plan Administration Cost	Quarter	Annualized				
Plan Generated Revenue (\$2.20 per participant) (est):	\$19,096	\$76,384				
Contracted Revenue (\$1.40 per participant) (est):	\$12,152	\$48,608				
Net Excess/(Deficit) (est):	\$6,944	\$27,776				

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

### Section 5

Release date 04-30-2023

### (USD) Europacific Growth R6 American Funds

Quarterly Returns	Performance 04-30-2023	
1st Otr	04-30-2023	
2nd Otr		

Unsubsidized	Unsi	Subsidized	St		
	234	350	403	449	No. in Cat
	38	58	щ З	38	% Rank Cat
	0.87	0.00	2.46	3.51	+/- Cat Index
	1.77	0.91	-0.40	2.66	+/- Std Index
7.88	5.74	3.42	9.33	5.71	Total Return
7.84	5.99	3.25		-3.26	Std 03-31-2023
7.88	5.74	3.42	9.33	5.71	Load-adj Mthly
Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
11.03				9.87	2023
-22.72	13.78	-9.33	-14.65	-12.24	2022
2.84	-1.13	-2.35	6.97	-0.43	2021
Total %	4th Otr	3rd Qtr	2nd Otr	1st Otr	Quarterly Returns
				-30-2023	Performance 04-30-2023

		Performance Disclosure
0.71	0.71	30-day SEC Yield 04-30-23
		7-day Yield
OUSODSIDIZED	DAZIDISCIDO	

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

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

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

## Fees and Expenses

Sales Charges -End Load %

	Deferred Load %	rront-Ena Loaa %
--	-----------------	------------------

NN

#### Management Fees % Fund Expenses **Net Expense Ratio %** 12b1 Expense %

0.46 0.46

0.41

NA

**Gross Expense Ratio** %

<b>Risk and Return Profile</b>			
	3 Yr 403 funds	5 Yr 350 funds	10 Yr 234 funds
Morningstar Rating <sup>™</sup>	4★	3★	3★
Morningstar Risk	Avg	Avg	Avg
Morningstar Return	Avg	Avg	Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	19.32	19.06	15.45
Mean	9.33	3.42	5.74
Sharpe Ratio	0.49	0.19	0.38
MPT Statistics	Standard Index		Best Fit Index Morningstar Gbl xIIS Growth TMF
			NR USD
Alpha	-0.92	92	2.02
Beta	<u>-</u>	1.10	1.09
-	0	2	

Potential Cap Gains Exp

31.34% 1.32% 95.40

12-Month Yield R-Squared

93.33

14.6 16.0 **21.7** 6.6 14.1 1.0

**0.98** 0.74 1.39 0.32

Morningstar Analyst Medalist Rating <sup>111</sup> 100.00 Sold Data Co 07-29-2022 100.00	star tRating <sup>™</sup>   2	<b>Analyst</b> 100.00 <b>Data Co</b> 100.00	<b>Analyst-Driven</b> % 100.00 <b>Data Coverage</b> % 100.00	-	Morningstar Rating <sup>™</sup> ★★★ 403 US Fund Foreign Large Growth	P Rating <sup>w</sup>	Standa MSCI USD	<b>Standard Index</b> MSCI ACWI EX USD	Standard Index MSCI ACWI Ex USA NR USD		<b>Category Index</b> MSCI ACWI Ex USA Growth NR USD	Morningstar Cat JA US Fund Foreign Large Growth	1 Large
9	92	88	89	93	92	92	92	97	95	94	94	Investment Style Equity Stocks %	
										<b>^</b>	80k 60k 40k	Growth of \$10,000 American Funds Europacific Growth R6 22,270	ropacifi
{			<u>}</u>	8						1	20k	<ul> <li>Category Average 20,802</li> <li>Standard Index 18,443</li> </ul>	
											4	Performance Quartile (within category)	
2012							2019	2020		2022		History	
41.18	49.03	47.09	45.32	45.04	56.14	44.99	55.55	69.30	64.73	49.03	54.44	NAV/Price	
19.64	20.58	-2.29	-0.48	1.01		-14.91	27.40	25.27	2.84	-22.72	11.03	Total Return %	
2.81 2.97	5.29 5.09	1.57 0.36	5.18 0.77	-3.48 0.89	3.98 -0.84	-0.71	5.89 0.06	14.61 3.06	-4.99 -2.26	-6.72 0.33	2.31 1.34	+/- Standard Index +/- Category Index	
1	1	27	66	20	44	58	59	ш	80	88	I	% Rank Cat	
1		341	361	363	399	439	469	447	450	443	450	No. of Funds in Cat	
Asset Allocation % Cash	ocation %		7	Net % 5.51	Long %	Short %	Share Ch since 12-2022	Chg Z2	Share H Amount	Holdings : 380 Total Stocks , 11 29% Turnover Ratio	Holdings : 380 Total Stocks , 10 Total Fixed-Income 29% Tumover Ratio	Fixed-Income,	Net Assets %
Non-US Stocks Bonds	Stocks		9	91.96 0.42	91.96 0.42	0.00	00		5 mil I	VINUA NO	Novo Nordisk A/S Class B LVMH Moet Hennessy Lou	Novo Nordisk A/S Class B LVMH Moet Hennessy Louis Vuitton SE	3.9/ 3.17
Other/Not Clsfd	ot Clsfd			0.42	0.42	0.00	1			ASML H	ASML Holding NV		2.71
Total			10	100.00	100.00	0.00	1.4	<u> </u>	114 mil 1	Reliance	Reliance Industries Ltd	d ources rid	2.32
Equity Style	e	Portf	Portfolio Statistics	stics	Port F	Rel Rel							

Below B	B	BB	BBB	A	AA		Cradit Anality Broa	MOT	Fixed-Income Style		Ilem2 biM	agred Duese Anten	Equity Style	Total	Other/Not Clsfd	Bonds	Non-US Stocks	Cash	Asset Allocation %
									Avg Eff Maturity Avg Eff Duration Avg Wtd Coupon Avg Wtd Price		àp	P/E Ratio TTM P/C Ratio TTM	Portfolio Statistics	100.00	0.42	0.42	91.96	5.51 1 R0	Net %
													Port Rel Avg Index	100.00	0.42	0.42	91.96		Long %
	1						Dond %		2.39			~ ~	Cat	0.00	0.00	0.00	0.00	0.00	Short %
Energy	🗄 Com	🗸 Sensitive	Real	🕶 Finar	Cons	🚓 Basic	∿ Cyclical	Sector Weightings		1	⊕ () (		1	⊕ ⊕	) ()	1	1	since 12-2022	Share Chg
ΥĘ	nunicati	itive	Real Estate	<b>Financial Services</b>	Consumer Cyclical	<b>Basic Materials</b>	ical	ightings	1 mil 14 mil 10 mil 124 mil	44 mil	34 mil 262 mil	23 mil 160 mil	84 mil	by mil 114 mil	6 mil	5 mil	35 mil	Amount	Share
	Communication Services			vices	clical	sle		St	MercadoLibre Inc AstraZeneca PLC Flutter Entertainment PLC Fortescue Metals Group Ltd	Shopify Inc Registered Shs -A- Sub	AlA Group Ltd	Airbus SE	Daiichi Sankyo Co Ltd	Canadian Natural Resources Ltd Reliance Industries Ltd	ASML Holding NV	LVMH Moet Hennessy Louis Vuitton SE	Novo Nordisk A/S Class B	380 Total Stocks , 10 Total Fixed-Income 29% Turnover Ratio	Holdings :
8.8	3.3 3	42.6	0.4	11.9	14.8	8.7	35.7	Stocks %	<u>c</u> .	-A- Sub		mufacturing		93 LTO	-	is Vuitton SE		Income,	
1.51	0.55	1.18	0.16	0.59	1.33	1.08	0.86	Rel Std Index	1.37 1.36 1.34	1.51	2.13 2.08 1.98	2.18 2.15	2.20	2.33 2.32	2.71	3.17	3.97	%	Net Assets

녑	Mod	Ŧ	Avg Eff Maturity
			Avg Eff Duration
			Avg Wtd Price
			мот
Cred		it B	Credit Quality Breakdown —
AAA	-		
A			

*	
ġ	Credit Quality Breakdown —
G	ААА
≤ I	АА
	A
ΰ	

Avg Wtd Price	
мот	
Credit Quality Breakdown — AAA	
AA	
A	
BBB	
BB	
Below B NR	

Stocks % Rel Std Index				- ** (				þ	Rond %	Secto	Price – +	Coupon 2.39 🕀	Jration - +	aturity — —	0		היי המיזמ 1 מג 1 חז (	1.19
i ecili ology	Technology	Energy Industrials	Communication Services	Sensitive	Real Estate	Financial Services	Consumer Cyclical	<b>Basic Materials</b>	Cyclical	Sector Weightings	124 mil	10 mil	14 mil	1 mil	44 mil	262 mil	0	34 mil
			n Services			ces	ical	S			Fortescue N	Flutter Enter	AstraZeneca	MercadoLib	Shopify Inc	AIA Group L		Sea Itd ADF

Fixed-Income Style			① 1 mil Mercadol ibre Ind
Ltd Mod Ext	Avg Eff Maturity		14 mil
цбіН	Avg Eff Duration		10 mil
N	Avg wta Coupon	2.39	101
pay	Avg Wtd Price		
Mol			Sector Weightings
Credit Auglity Breakdown		Rond %	∿ Cyclical
AA			Consumer Cyclical
A			Financial Services
BBB			A Keal Estate
BB			v Sensitive
B			Communication Services
Below B			▲ Energy
NR			Industrials
Regional Exposure	Stocks %	Rel Std Index	Technology
Americas	13.9	1.31	→ Defensive
Greater Europe	49.0	1.04	
Greater Asia	37.2	0.87	Healthcare

**0.86** 1.08 1.33 0.59 0.16 **1.18** 0.55 1.51 1.51 1.12

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(USD) Operations **Europacific Growth R6 American Funds** 

Manager:

Family:

American Funds

Tenure:

21.9 Years Multiple

Base Currency: Objective:

USD Foreign Stock

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

\$250 \$250 \$25

Type: Total Assets: 900

\$136,919.62 mil

≤F

ISIN:	Ticker		07-29-2022		Medalist Rating <sup>™</sup> 100.00	Morningstar
US298	RERGX		100.00	Data Coverage % 403 US Fund	100.00	Analyst-Driven %
US2987068218	$\langle$	Growth	Foreign Large	403 US Fund	***	Morningstar Analyst-Driven % Morningstar Rating The Standard Index
Incept:	Purchase Constraints:			USD	MSCI ACWI EX USA NR MSCI ACWI EX USA	Standard Index
05-01-2009	А			Growth NR USD	MSCI ACWI Ex USA	Category Index
Ō				Growth	US Fund Foreign Large	Morningstar Cat

Release date 04-30-2023

## MFS Value R4 (USD)

			2-31-2023	r; Expires 12	1. Contractual waiver; Expires 12-31-2023
1.80		1.77 1		104-30-23	30-day SEC Yield 04-30-23
					7-day Yield
Unsubsidized	Unsi	Subsidized	S		
	908	1087	1135	1221	No. in Cat
	29	42	76	22	% Rank Cat
I	0.55	0.70	-1.02	2.25	+/- Cat Index
	-2.53	-3.00	-1.16	0.80	+/- Std Index
8.30	9.68	8.45	13.36	3.47	Total Return
8.24	9.75	7.87		-3.78	Std 03-31-2023
8.30	9.68	8.45	13.36	3.47	Load-adj Mthly
Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
0.27				-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 Qtr	2nd Otr	1st Otr	Quarterly Returns
				1-30-2023	Performance 04-30-2023

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

does not guarantee future results. The investment return and principal value of an investment will fluctuate: thus an invest shares, when sold or redeemed, may be worth more or less th (if applicable) Morningstar metrics. The performance data quoted represents past performance ar

Current performance may be lower or higher than return data quoted herein. For performance data current to the most recein month-end, please call 800-225-2606 or visit http://www.mls.com. their original cost.

## Fees and Expenses

#### Sales Charges Front-End Load %

**Deferred Load %** 

#### Gross Expense Ratio % Risk and Return Profile **Net Expense Ratio %** 12b1 Expense % Management Fees % Fund Expenses

nisk ditu netutit Fibilie			
	3 Yr	5Yr	10 Yr
	1,135 funds 1,087 funds	,087 funds	806 funds
Morningstar Rating <sup>TM</sup>	2*	3★	4★
Morningstar Risk	-Avg	-Avg	-Avg
Morningstar Return	-Avg	Avg	+Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	16.09	17.73	14.40
Mean	13.36	8.45	9.68
Sharpe Ratio	0.78	0.46	0.65
MPT Statistics	Standard Index		Best Fit Index Morningstar US LM
		Brd	Brd Val TR USD

45.93%			Potential Cap Gains Exp
1.83%			12-Month Yield
97.25		85.51	R-Squared
0.95		0.83	Beta
-1.37		1.05	Alpha
Brd Val TR USD	Brd		
Best Fit Index Morningstar US LM	Be	Standard Index	MPT Statistics
0.65	0.46	0.78	Sharpe Ratio
9.68	8.45	13.36	Mean
14.40	17.73	16.09	Standard Deviation
10 Yr	5 Yr	3 Yr	
+Avg	Avg	-Avg	Morningstar Return
-Avg	-Avg	-Avg	Morningstar Risk
4★	3★	2*	Morningstar Rating <sup>TM</sup>
806 funds	7 funds	1,135 funds 1,087 funds	
10 Yr	5Yr	3 Yr	

Share Chg since       Share Amount       Holdings: 73 Total Stocks, 0. Total Fixed-Income, 12% Tumover Ratio       Net/ Stocks, 0. Total Fixed-Income, 12% Tumover Ratio         Image: Company of the companies o	ong % Short % 0.83 0.00 7.81 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2.9 0.76 Rel 3.5 0.88 1.19 3.5 0.88 1.24 3.9 0.48 0.82 	Net % L 0.83 L 7.81 91.36 9 7.81 0.00 100.00 10 100.00 10 10 100.00 10 10 10 10 10 10 10 10 10 10 10 10 10 1	Avg Eff Maturity Avg Eff Maturity Avg Wtd Price	Credit Quality Breakdown	Portfolio Asset Alloc: Casset Alloc: Stocks UCS Stocks Non-US St Bond's Other/Not Total Total Puter Bleed Puter Bleed Puter Bleed Total Fixed-Incom
Share Chg since       Share Amount 27 Total Stocks, 0. Total Fixed-Income, 02-2023       Net/         Image: Stress of the	0.883 83 83 00 00 00 00 00 00 00 00 00 00 00 00 00	Net % 0.83 91.36 7.81 0.00 0.00 1100.00 100000000	Portfolio St P/E Ratio T P/C Ratio T P/D Ratio T P/B Ratio T Geo Avg M Smil Avg Eff Ma Avg Eff Ma Avg Wtd P, Avg Wtd P,	s S VNot Clsfd Mad Et E	Portri Asset Asset US Sth US Sth Bonds Other Total Total Fixed
Share Chg since       Share Amount 2.2023       Holdings: Tartal Stocks, 0.Total Fixed-Income, 12% Tumover Ratio       Net/ Stocks, 0.Total Fixed-Income, 12% Tumover Ratio         Image: Company of the company of the companies lnc       10 mil       JPMorgan Chase & Co 10 mil       Northrop Grumman Corp         Image: Structure of the companies lnc       36 mil       Comcast Corp Class A         Image: Structure of the companies lnc       5 mil       Northrop Grumpanies lnc         Image: Structure of the companies lnc       6 mil       Lowe's Companies lnc         Image: Structure of the companies lnc       6 mil       Lowe's Companies lnc         Image: Amount of the companies lnc       12 mil       ConcocoPhillips         Image: Amount of the companies lnc       12 mil       Concenture PLC Class A         Image: Amount of the companies lnc       12 mil       Stocks %         Image: Amount of the companies lnc       6 mil       Accenture PLC Class A         Stock Materials       34.3	00000000000000000000000000000000000000	Net % 0.83 91.36 7.81 0.00 0.00 100000000	Portfolio St P/E Ratio T P/C Ratio T P/B Ratio T P/B Ratio T Geo Avg M Smil Avg Eff Ma Avg Eff Ma Avg Wtd Pr Avg Wtd Pr	Income Style Mad Ent Mad Ent	Asset: As
Share Chg since     Share Amount 27 Totial Stocks , 0 Total Fixed-Income, 12% Tumover Ratio     Net/       O: 2023     16 mil 10 mi	00000000000000000000000000000000000000	Net % 0.83 91.36 7.81 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Portfolio St P/E Ratio T P/E Ratio T P/B Ratio T P/E Ratio T Avg Eff Ma Avg Eff Ma Avg Wtd C Avg Wtd P/E Ratio T	Mod Entropy works and service	Portra Asset Cash Non-St Bonds Other Equity Value
Share Chg     Share Holdings:     Net/       since     Amount 73 Total Stocks, 0.Total Fixed-Income,     12% Tumover Ratio       Oz-2023     16 mil     JPMorgan Chase & Co       Imail     JPMorgan Chase & Co     10 mil       Johnson & Johnson & Johnson     8 mil     Texas Instruments Inc       Imail     Texas Instruments Inc     9       Imail     Ann PLC Class A     9       Imail     Northrop Grumman Corp     11 mil       Imail     Comcast Corp Class A     12 mil       Imail     Simil     Comcast Corp Class A       Imail     Marsh & McLennan Companies Inc       Imail     Pizer Inc       Imail     ConocoPhillips       Imail     Chubb Ltd       Imail     Duke Energy Corp       Imail     Accenture PLC Class A       Sector Weightings     Stocks %	83 36 80 00 00 00 00 00 00 00 00 00 00 00 00	Net % 0.83 91.36 7.81 0.00 0.00 1100.00 100000000	Portfolio St P/E Ratio T P/E Ratio T P/B Ratio T P/B Ratio T P/B Ratio T P/B Ratio T P/B Ratio T P/B Ratio T Avg Mtd Ff Dui Avg Wtd Ci	Mod Ert Income Style Inews py etile	Fixed-
Share Chg     Share Holdings:     Net/       since     Amount 73 Total Stocks, 0 Total Fixed-Income,     02-2023       ①     16 mil     J2% Tumover Ratio       ①     16 mil     JPMorgan Chase & Co       ④     10 mil     Johnson & Johnson       ④     10 mil     Progressive Corp       ④     5 mil     Aon PLC Class A       ④     3 mil     Northrop Grumman Corp       ④     3 mil     Comcast Corp Class A       ●     3 mil     Comcast Corp Class A       ●     3 mil     Morthrop Grumman Corp       ●     3 mil     Morthrop Grumman Sinc       ●     3 mil     Marsh & McLennan Companies Inc       ●     31 mil     Pfizer Inc       ●     12 mil     ConcoPhillips       ●     6 mil     Lowe's Companies Inc       ●     12 mil     Duke Energy Corp       ●     12 mil     Lowe hacenture PLC Class A	83 36 36 00 00 00 00 00 00 00 00 00 00 00 00 00	Net % 0.83 91.36 7.81 0.00 1100.00 100000000	Portfolio St P/E Ratio T P/C Ratio T P/B Ratio T P/B Ratio T Geo Avg M Geo Avg M Smil Avg Eff Ma Avg Eff Dui Avg Wtd Cr	Pew u6iH lieus pyw e6uci	Portri Asset Cash Non-U Bonds Bonds Other Total
Share Chg since     Share     Holdings:     Net/       since     Amount     73 Total Stocks. 0. Total Fixed-Income, 02-2023     Net/       Image: Transformed and the stock of t	% % Sh 83 86 00 00 00 00 00 00 00 00 00 00 00 00 00	Net % 0.83 91.36 7.81 0.00 0.00 0.00 100.00 100.00 100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 100000000	Portfolio St P/E Ratio T P/C Ratio T P/C Ratio T P/B Ratio T P/B Ratio T Geo Avg M Geo Avg M Smil Avg Eff Ma Avg Eff Ma	Style Mod Ert Mod Ert Mod Ert Mod Ert	Portri Asset Cash US St US St US St Other Total Equity Value
Share Chg since       Share       Holdings:       Net/         since       Amount       73 Total Stocks, 0.Total Fixed-Income,       Net/         02-2023       16 mil       JPMorgan Chase & Co       Net/         (i)       10 mil       JPMorgan Chase & Co       Net/         (ii)       10 mil       Johnson & Johnson       Net/         (iii)       8 mil       Texas Instruments Inc       Net/         (iiii)       5 mil       Aon PLC Class A       Net/         (iiii)       36 mil       Comcast Corp Class A       Smil       Net/         (iiii)       36 mil       Comcast Corp Class A       Smil       Net/         (iii)       31 mil       Marsh & McLennan Companies Inc       Net/         (iii)       31 mil       Pfizer Inc       Net/sizer Inc         (iii)       6 mil       Lowe's Companies Inc       6 mil         (iii)       6 mil       Lowe's Companies Inc       6 mil	83 36 36 81 00 00 00 81 Index 0.83 0.88 0.76 0.48	Net % 0.83 91.36 7.81 0.00 0.00 0.00 100.00 100.00 100000000	Portfolio St P/E Ratio T P/C Ratio T P/C Ratio T P/B Ratio T P/B Ratio T Geo Avg M \$mil	s Style Mod Ent Mod Ent Mod Ent Mod Ent Mod Ent	Portri Asset Cash US St US St US St US St US St Us Cother Total Equity Value
Share Chg since     Share Amount     Holdings: 12% Tumover Facto     Net/       02-2023     16 mil     JPMorgan Chase & Co     10 mil     JPMorgan Chase & Co       ①     10 mil     JPMorgan Chase & Co     10 mil     Progressive Corp       ②     10 mil     Progressive Corp     8 mil     Texas Instruments Inc       ③     3 mil     Northrop Grumman Corp       ③     3 mil     Comcast Corp Class A       ④     3 mil     Comcast Corp Class A       ④     3 mil     Morthrop Grumman Corp       ④     3 mil     Morthrop Grumman Companies Inc       ④     3 mil     Marsh & McLennan Companies Inc       ④     12 mil     ConocoPhillips       ④     12 mil     ConocoPhillips       ⑤     6 mil     Lowe's Companies Inc	883 36 81 00 00 00 00 00 00 00 00 00 00 00 00 00	Net % 0.83 91.36 7.81 0.00 0.00 100.00 100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 100000000	Portfolio St P/E Ratio T P/C Ratio T P/C Ratio T P/B Ratio T Geo Avg M \$mil	Style	Portt Asset Cash US St US St US St US St US St Us Other Total Equity Value
Share Chg     Share Holdings :     Net/       since     Amount 73 Total Stocks, 0 Total Fixed-Income,     02-2023       ①     16 mil JPMorgan Chase & Co     10 mil Johnson & Johnson       ④     10 mil Johnson & Johnson     10 mil Frogressive Corp       ④     10 mil Aon PLC Class A     10 mil Comcast Corp Class A       ●     3 mil Northrop Grumman Corp       ●     3 mil Northrop Gruph Class A       ●     3 mil The Cigna Group       ●     8 mil Marsh & McLennan Companies Inc       ●     31 mil Pfizer Inc       ●     12 mil ConcocPhillips	% Sh 83 81 00 00 00 00 Rel Index 0.83 0.88 0.76 0.48	Net % 0.83 91.36 7.81 0.00 0.00 1100.00 0.00 1100.00 1100.00 1100.00 1100.00 1100.00 8 Kt Cap 9:	Portfolio St P/E Ratio T P/C Ratio T P/B Ratio T P/B Ratio T Geo Avg M \$mil	Ileus pil egial	Asset Cash US St Non-U Bonds Other Total Equity Value
Share Chg     Share Holdings :     Net/       since     Amount 73 Totalal Stocks, 0 Total Fixed-Income,     02-2023       16 mil     J2% Tumover Ratio     12% Tumover Ratio       10 mil     JPMorgan Chase & Co     10 mil       10 mil     Johnson & Johnson     10 mil       10 mil     Progressive Corp     8 mil       8 mil     Texas Instruments Inc       5 mil     Aon PLC Class A       3 mil     Northrop Grumman Corp       3 mil     Northrop Grup       5 mil     The Cigna Group       8 mil     Marsh & McLennan Companies Inc       9     8 mil     Marsh & McLennan Companies Inc       3 1 mil     Pfizer Inc	83 36 81 00 00 Rel Index 0.83 0.88 0.76 0.48	Net % 0.83 91.36 7.81 0.00 0.00 0.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 1100.00 10.83 11.85 11.05 11.85 11.05 11.	Portfolio St P/E Ratio T P/C Ratio T P/C Ratio T P/B Ratio T P/B Ratio T Geo Avg M \$mil	Items ppW ediet	Port Asset Cash US St US St Other Total Equity
Share Chg since     Share Amount     Holdings:     Net/       02-2023     16 mil     12% Tumover Flatio     12% Tumover Flatio       ①     16 mil     JPMorgan Chase & Co       ①     10 mil     Johnson & Johnson       ①     10 mil     Progressive Corp       ③     8 mil     Texas Instruments Inc       ①     5 mil     Aon PLC Class A       ③     36 mil     Comcast Corp Class A       ④     5 mil     Morthrop Grumman Corp       ④     8 mil     Marsh & McLennan Companies Inc	83 36 37 88 00 00 00 00 00 00 88 1 80 00 00 00 00 00 00 00 00 00 00 00 00	Net % 0.83 91.36 7.81 0.00 0.00 1100.00 1100.00 1100.00 11111111	Pontolio St Pontolio St P/E Ratio T P/C Ratio T P/B Ratio T P/B Ratio T	Style	Port Asset Cash US St Non-U Bonds Other Total Equity
Share Chg since     Share Amount     Holdings: 73 Total Stocks. 0 Total Fixed-Income, 12% Tumover Flatio     Net/ 0       Image: Comp Image: Com	00000000000000000000000000000000000000	Net % 0.83 91.36 7.81 0.00 0.00 100.00 1100.00 1100.00 1100.00	Portfolio St P/E Ratio T P/C Ratio T P/C Ratio T	Stocks S S S S S S S S S S S S S S S S S S S	Port Asset Cash US St US St Non-U Bonds Other Total Equity Value
Share Chg since     Share     Holdings:     Net /       op-2023     Amount     73 Total Stocks. 0 Total Fixed-Income, 12% Tumover Flatio     Net /       Image: Complex Com	00000313833% 0.83 0.83 0.83 0.83 0.83 0.83 0.83 0.83	Net % 0.83 91.36 7.81 0.00 0.00 1100.00 1100.00 1100.00	Portfolio St P/E Ratio T	Stocks US Stocks S S S S S S S S S S S S S S S S S S S	Port Asset Cash US St Non-U Bonds Other Total Total Equity Value
Share Chg since     Share Holdings: Amount 73 Total Stocks, 0 Total Fixed-Income, 12% Turnover Ratio     Net/       Image: Complexity of the state of the st	, in Rei 00 00 03 36 33 %	Net % 0.83 91.36 7.81 0.00 0.00 0.00 100.00	Portfolio	s S S S S S S S S S S S S S S S S S S S	Portt Asset Cash US St Non-U Bonds Other Total Total Equity
Share Chg     Share Holdings:     Net/       since     Amount 73 Total Stocks, 0 Total Fixed-Income,     02-2023       O2-2023     12% Tumover Ratio       O     16 mil     JPMorgan Chase & Co       O     10 mil     Johnson & Johnson       O     10 mil     Progressive Corp       B mil     Texas Instruments Inc       S mil     Aon PLC Class A		Net % 0.83 91.36 7.81 0.00 0.00 0.00		uocks US Stocks s ·/Not Clsfd	Port Asset Cash US St US St Non-U Bonds Bonds Other Total
Share Chg     Share Holdings:     Net/       since     Amount 73 Total Stocks, 0 Total Fixed-Income,     02-2023       02-2023     12% Tumover Ratio       ①     16 mil     JPMorgan Chase & Co       ①     10 mil     Johnson & Johnson       ①     10 mil     Progressive Corp       ③     8 mil     Texas Instruments Inc		Net % 0.83 91.36 7.81 0.00 0.00 0.00		s //Not Clsfd	Port Asset Cash US St Non-U Bonds Bonds
Share Chg Share Holdings: Net / since Amount 73 Total Stocks, 0 Total Fixed-Income, 02-2023 12% Turnover Ratio 16 mil JPMorgan Chase & Co 10 mil Johnson & Johnson 10 mil Progressive Corp		Net % 0.83 91.36 7.81 0.00 0.00		tocks US Stocks s //Not Clsfd	Port Asset Cash US St US St Non-L Bonds Other
Share Chg Share Holdings: Net / since Amount 73 Total Stocks , 0 Total Fixed-Income, 02-2023 12% Turnover Ratio 16 mil JPMorgan Chase & Co 10 mil Johnson & Johnson		Net % 0.83 91.36 7.81 0.00		tocks US Stocks S	Port Asset Cash US St Non-l Bond
Share Chg Share Holdings: since Amount 73 Total Stocks , 0 Total Fixed-Income, 02-2023 12% Turnover Ratio 16 mil JPMorgan Chase & Co		Net % 0.83 91.36 7.81		tocks US Stocks	Port Asset Cash US St Non-l
Share Chg Share Holdings: since Amount 73 Total Stocks , 0 Total Fixed-Income, 02-2023 12% Tumover Ratio		Net % 0.83 91.36		tocks	Porti Asset Cash US St
Share Chg Share Holdings: since Amount 73 Total Stocks , 0 Total Fixed-Income,		Net %			Port Asset
Shara Cha Shara Holdinos .					Port
			<b>is</b> 03-31-2023	Portfolio Analysis 03-31-2023	1
1200 1207 1229 1245	1244	1268	13	1213	1208
53 	30 88	57	51 12		29
1.11 0.26 1.63 -2.26	-1.60	-3.20		3.28	-1.09
-1.40 -14.49 -3.29 12.21 -8.90 +/- Standard Index	-4.09 -5.49	2.18	-3.12 -1.92	3.42	0.41
3.91 25.42 -5.90	-9.87	14.14		35.81	16.42
44.42 44.83 54.34 47.47 47.39 NAV/Price	40.56 35.30 4	36.05	34.94 32.79	33.20	25.35
2019 2020 2021 2022 04-23 History	2017 2018	2016	2014 2015	2013	2012
[	[	[		[	
41,355		(			2
29,958					
I					
40k 33 684					
50k Growth of \$10,000					
	-			, c	Ę
	00			QQ	8
USD	alua		100.00	2022	08-04-2022
S&P SUUTH USD Hussell TUUU Value TH US Fund Large Value				Medalist natilig	
		Analyst-Driven % Morningstar Rating	Analyst-Driv	Modalist Pating <sup>™</sup>	Mode

Fixed-Income Style Fixed-Income Style tur Mid Ent Avg Ef Avg W Credit Quality Breakdown AAA	Avg Eff Maturity Avg Eff Maturity Avg Eff Duration Avg Wtd Coupon Avg Wtd Price	2.9 93639	2.9 0.76 1.24 93639 0.48 0.82 Bond %				Marsh & M Pfizer Inc ConocoPhill Lowe's Com Lowe's Con Chubb Ltd Duke Energ Accenture F Accenture F
Credit Quality Break	down —		Bonc		<ul> <li>Cyclical</li> <li>Basic Ma</li> </ul>	ings aterials	
AAA				   <b> </b>	Consumer Cyclical Financial Services	er Cycli Servio	ical tes
BBB BB				∣ ∣ ₹E	- Sensitive	9 2	
B Below B					Communication Services Energy	ication	) Service
NR						n Is	
Regional Exposure Americas	Stocks % 92.8	~ ~	Rel Std Index 0.94			ē	
Greater Europe	7.3	ω	6.94	92 1	Consumer Defensive	9r Dete	nsive
Greater Asia	0.0	0	0.00	8 70	Healthcare Utilities	ire	

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Tenure: Objective: Manager: Family:

Multiple 17.0 Years Growth

Ticker:

Base Currency:

ISIN:

Minimum Initial Purchase:

US55273H6356 \$0 MEIJX USD

> Type: Incept:

A 04-01-2005 MF \$55,840.87 mil

**32.1** 7.3

17.6 7.2

**1.30** 1.00 1.21 2.52

**33.0** 3.5 4.6 17.0 8.0

**0.69** 0.42 0.97 2.07 0.30

Purchase Constraints:

Total Assets:

MFS

Operations



35

Release date 04-30-2023 | Note: Portions of the analysis are based on pre-inception returns. Please read disclosure for more information

## Sterling Capital Total **Return Bond R6 (USD)**

Performance 04-30-2023	30-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Qtr	4th Qtr	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				3.63
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-0.69	-1.86	1.60		1.යු
Std 03-31-2023	-4.68		1.36		1.25
Total Return	-0.69	-1.86	1.60	1.80	1.35
+/- Std Index	-0.27	1.29	0.43	0.48	
+/- Cat Index	-0.27	1.29	0.43	0.48	
% Rank Cat	53	<del>1</del> 5	13	7	
No. in Cat	461	416	380	282	
7 Jour Viald DE 16 22	33	SL	Subsidized		Unsubsidized

	024	1. Contractual waiver; Expires 01-31-2024
3.78	3.83 1	30-day SEC Yield 04-30-23
	3.41 <sup>1</sup>	7-day Yield 05-16-23
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 The performance data quoted represents past performance and (if applicable) Morningstar metrics.

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

www.sterlingcapitalfunds.com.

## Fees and Expenses

Front-End Load % Sales Charges

Managamant Eage 0/	Fund Expenses	Deferred Load %

Management Fees % 12b1 Expense %

**Gross Expense Ratio** % **Net Expense Ratio %** 

0.95	94	0.94	Beta
Universal TR USD 0.42	Uni.	1.07	Alpha
Best Fit Index Bloomberg US		Standard Index	MPT Statistics
0.21	0.03	-0.51	Sharpe Ratio
1.80	1.60	-1.86	Mean
4.32	5.44	5.96	Standard Deviation
10 Yr	5 Yr	3 Yr	
High	+Avg	+Avg	Morningstar Return
Avg	Avg	-Avg	Morningstar Risk
5☆	4★	4★	Morningstar Rating <sup>TM</sup>
10 Yr 282 funds	5 Yr 380 funds	3 Yr 416 funds	
			<b>Risk and Return Profile</b>

Potential Cap Gains Exp

12-Month Yield

R-Squared

95.78

3.05% -19.17% 97.08

5☆ Avg High	10 Yr 282 funds	0.00 <b>0.35</b>	0.25	NA			fata 'ecent	vestor's ss than	e and and	10-year	returns,		3.78	ubsidized				1.35	1.35	-13.15 3.63	Total %	<b>_</b>
Credit Qu AAA AA AA		Ltd Mod			Equity Style	Total	Bonds Other/Not Clsfd	Uash US Stocks Non-US Stocks	Portfoli Asset Allo			1.93	1.93	6 1 <i>4</i>	2012						97	Morningstar Medalist Rati Neutral 03-31-2023
<b>Credit Quality Breakdown</b> 03-31-2023 AAA AA A		haw noile the state of the stat		llem2 biM sgns	yle Id Growth		ot Clsfd	ks Stocks	Portfolio Analysis 04-30-2023 Asset Allocation %			1.05	1.05	-n q7	2013						96	Morningstar Medalist Rating" Neutral 03-31-2023
kdown 0					P/F F				<b>sis</b> 04-3(			0.03	0.03	л —	2014						97	
13-31-2023		Avg Eff Maturity Avg Eff Duration Avg Wtd Coupon Avg Wtd Price		P/C Ratio TTM P/B Ratio TTM P/B Ratio TTM Geo Avg Mkt Cap \$mil	Portfolio Statistics P/F Ratin TTM	10	(0					-0.01	-0.01	0 72	2015						97	Analyst-Driven % 10.00 Data Coverage % 100.00
		ion pon		Cap	stics	100.00	98.90 0.27	0.00	Net %			1.10	1.10	3 75	2016						95	Morn ★★↓ % 416 L Interr Bond
					Avg In	100.00	98.90 0.27	0.00 0.00	Long %			0.79	1.33 0.79	1 22	2017						97	Morningstar Rating
Bond % 67.65 8.06 12.10		9.00 6.29 3.48 91.45			Rel Rel Index Cat	0.00	0.00	0.00 0.00	Short %			-0.28	-0.28	10.22	2018						86	Analyst-Driven %     Morningstar Rating <sup>™</sup> 10.00     ★★★★       Data Coverage %     416 US Fund       100.00     Intermediate Core       Bond     Bond
<b>1</b> )	Sec		•	00	0	0				i	17 430	0.65	0.65	10.82 9.37	2019						98	
Generation Consumer Cyclical Financial Services	Sector Weightings							23	Chg		415	1.84	1.84	a 35	2020						96	Standard Index Bloomberg US Agg Bond TR USD
Basic Materials Consumer Cyclical Financial Services	htings	12 mil 10 mil 10 mil 10 mil	11 mil	13 mil 13 mil 11 mil		60 mil 21 mil			Share	į	423	0.42	0.42	10.87	2021						97	Agg
s ical ces		Federal   Federal   Federal   Federal	Fnma Pa	ONEMA Fnma Pa Federal I	Fnma Pa	ONEMA	United S	48% Turnover Ratio United States Tr	Holdings : N Total Str		453	-0.14	-0.14	9.18 -13.15	2022			1			98	<b>Cate</b> Bloc
		National Mo Home Loan I Home Loan I Home Loan I	Fnma Pass-Thru I 3%	ONEMAIN DIRECT AUT ONEMAIN DIRECT AUT Fnma Pass-Thru I 3.5% Federal Home Loan Mo	Fnma Pass-Thru I	itates Treasu	itates Treasu	wer Ratio	Holdings : 17 Tatal Stocks - 266 Tatal Fixed Income		 476	0.04	0.04	9.41 3.63	04-23		4k	10k		60k	99 100k	<b>Category Index</b> Bloomberg US Agg Bond TR USD
	Stocks %	Federal National Mortgage Associat Federal Home Loan Mortgage Corpora Federal Home Loan Mortgage Corpora Federal Home Loan Mortgage Corpora	0.	nen iz venuce rivavolivo ili Lto 1. ONEMAIN DIRECT AUTO RECEIVABLES TR Finma Pass-Thru I 3.5% Federal Home Loan Mortgage Corpora		United States Treasury Bonds 1.375% ONEMAIN FINANCIAL ISSUANCE TRUST 1	United States Treasury Durius 2.3%	48% Tumover Ratio United States Treasury Notes 4.125%	Fixed-Income		% Hank Cat No. of Funds in Cat	+/- Category Index	+/- Standard Index	NAV/Price	History	<b>Performance Quartile</b> (within category)		<ul> <li>Standard Index</li> <li>11,991</li> </ul>	12,868 — Category Average 12.115	Grov	Investment Style Fixed-Income Bond %	Morningstar Cat US Fund Intermediate Core Bond
	Rel Std Index	0.99 0.98 0.97	0.99	1.30 1.27 1.22 1.03	1.43	3.49 1.78	4.00 4.02	4.09	Net Assets											otal Return		at mediate

	Ava Wtd Counon	3 4R	1	10 mi
	Avg Wtd Price	91.45	0	10 mi
	мот		Sector	Sector Weightings
Credit Quality Br	Credit Duality Breakdown 03-31-2023	Rond %	ۍ ح	Cyclical
AAA		67.65	3	Basic Mater
AA		8.06	•	Consumer C
A		12.10		Financial Se
BBB		11.93	E	Heal Estate
BB		0.24	ž	Sensitive
В		0.00		Communicat
Below B		0.02		Energy
NR		0.00		Industrials
Regional Exposure	Ire Stocks %	Rel Std Index		тесплону
Americas	Ι			Detensive
Greater Europe				Lonsumer D
Greater Asia				Healthcare

	Rel Std Index	0.00	0.02	0.00	0.24	11.93	12.10	8.06	67.65	Bond %		91.45	3.48	5.00 6.29	9 00			   			ort Rel Rel	00.00 0.00				0.83 0.00 0.83 0.00				0.79 -0.28	0.79 -0.28
	lechr		Energy	Comn	🗸 Sensitive	Real I	🕶 Finan	Consu	🚠 Basic	∿ Cyclical	Sector Weightings	1	1	1	1	1	0	1		(	D	1	Ð		Ð	since 03-2023	Share Chri	4		0.65 1.84	0.65 1.84
Consumer Defensive	rechnology	trials	~	Communication Services	tive	Real Estate	Financial Services	Consumer Cyclical	<b>Basic Materials</b>	cal	ghtings	10 mil	10 mil	10 mil	12 mil	11 mil	11 mil	13 mil	13 mil	16 mil	16 mil	60 mil 21 mil	43 mil	52 mil	40 mil		Sharp	423		0.42	0.42
ensive				1 Services			sec	ical	0			Federal Home	Federal H	Federal H	Federal N	Fnma Pas	Federal H	Fnma Pas	ONEMAI	HERTZ VI	Fnma Pass-Thru I	United St ONEMAI	United St	United St	United St	0 Total Stocks , 266 48% Turnover Ratio	Holdinge -	453	40	-0.14	-0.14
				0,									Iome Loan I	Iome Loan I	lational Mc	Fnma Pass-Thru I 3%	Iome Loan	Fnma Pass-Thru I 3.5%	N DIRECT A	EHICLE FIN,	s-Thru l	tates Treas N FINANCI,	tates Treas	tates Treas	tates Treas	cks , 266 Total ver Ratio		476		0.04	0.04
			I	I	I		I	I		I	Stocks %	Loan Mortgage Corpora	Federal Home Loan Mortgage Corpora	Federal Home Loan Mortgage Corpora	Federal National Mortgage Associat	0~	Federal Home Loan Mortgage Corpora	5%	ONEMAIN DIRECT AUTO RECEIVABLES TR	HERTZ VEHICLE FINANCING III LLC 1.		United States Treasury Bonds 1.375% ONEMAIN FINANCIAL ISSUANCE TRUST 1	United States Treasury Notes 2.625%	United States Treasury Bonds 2.5%	United States Treasury Notes 4.125%	0 Total Stocks , 266 Total Fixed-Income, 48% Turnover Ratio		No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index
		I			Ι					Ι	Rel Std Index	0.97	0.98	0.98	0.99	0.99	1.03	1.22	1.27	1.36	143	3.49 1.78	4.02	4.08	4.09	%	Not Accete				

	lois are pass on his mobile				
<b>Starling Canital Total</b>		Morningstar Analyst-Driven % Morningstar Rating" Standard Index	Standard Index	<b>Category Index</b>	Morningstar Cat
	-	* 10.00 ****	Bloomberg US Agg	Bloomberg US Agg	US Fund Intermediate
Return Bond R6 (USD		Data Coverage % 416 US Fund	Bond TR USD	Bond TR USD	Core Bond
	03-31-2023	100.00 Intermediate Core			
		Bond			
Operations					
Family: Sterling Capital Funds	Ticker:	STRDX	Incept:	02-01-20	8
Manager: Multiple	ISIN:	US85918D6242	Type:	MF	

Tenure:

Objective: Base Currency:

USD

15.3 Years Growth and Income

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

\$10 mil \$10 mil A

Total Assets:

\$1,021.57 mil

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**MORNINGSTAR**®

Release date 04-30-2023 | Note: Portions of the analysis are based on pre-inception returns. Please read disclosure for more information.

Stock I (USD)	T. Rowe Price
	Growth

7-day Yield 05-16-23	No. in Cat	% Rank Cat	+/- Cat Index	+/- Std Index	Total Return	Std 03-31-2023	Load-adj Mthly	Trailing Returns	2023	2022	2021	Quarterly Returns	Performance 04-30-2023
6-23	1228	71	-3.55	-3.88	-1.22	-18.06	-1.22	1 Yr	16.17	-15.01	2.58	1st Qtr	-30-2023
SL	1123	86	-7.33	-8.24	6.28		6.28	3 Yr		-25.40	12.73	2nd Otr	
Subsidized 0.00	1042	85	-6.14	-3.79	7.66	7.48	7.66	5 Yr		-3.29	-0.80	3rd Qtr	
Unst	798	49	-2.22	0.04	12.24		Ι	10 Yr		-2.23	4.77	4th Qtr	
Unsubsidized					10.40	10.21	10.40	Incept	18.65	-40.05	20.18	Total %	

### 30-day SEC 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

www.troweprice.com. month-end, please call 800-638-5660 or visit quoted herein. For performance data current to the most recent Current performance may be lower or higher than return data

## Fees and Expenses

#### Front-End Load % Sales Charges

Deferred Load %

Ă Å

#### Management Fees % Fund Expenses 12b1 Expense %

0.51

ΝA

**Gross Expense Ratio %** Net Expense Ratio %

0.53 0.53

<b>Risk and Return Profile</b>			
	3 Yr	5 Yr	10 Yr
	1,123 funds 1,042 funds	1,042 funds	798 funds
Morningstar Rating <sup>™</sup>	2*	2*	3☆
Morningstar Risk	+Avg	+Avg	+Avg
Morningstar Return	-Avg	-Avg	Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	23.09	21.93	17.68
Mean	6.28	7.66	12.24
Sharpe Ratio	0.32	0.38	0.69
MPT Statistics	Standard Index		Best Fit Index Morningstar US LM
	Otanidaria		star US LM

Objective:

Growth 9.3 Years

Ticker:

PRUFX USD

Incept: Type:

ISIN:

Minimum Initial Purchase:

\$500,000

Total Assets:

≦ 08-28-2015

\$47,177.23 mil

US7414794062

Tenure:

				'n	Ś,		ar	1S,			zed				40	21 2	A pt	9	9 G	18	%				
	Other/N	Bonds	Non-US Stocks	Uasn	Asset Al	Portfol	Ι		3.66	18.92 2.91	10 20 1	2012			}						8	03-06-2023	🕃 Silver	Medalis	Morningstar
	Other/Not Clsfd		Stocks	k.	Asset Allocation %	Portfolio Analysis 03-31-2023		Ι	5.72	59.20 6.81	20 20	2013			١						86	- 23	ler	Medalist Rating <sup>™</sup>	gstar
					6	<b>'sis</b> 03-3	Ι	1	-4.22	-4.86	3	2014									97	100.00	Data C		Analys
				'n	_	1-2023		Ι		9.55	53.69	2015				Ż					96	_	overage	0	t-Driven
	3.69	0.00	9.69	96 57	Net %		1463	ន	-5.50	-10.38	53.28	2016									86	Larc	% 1,12	**	% Mor
	3.69	0.00	9.69	86 도기	Long %		1363	<b>1</b> 5	3.63	33.84 12.01	62.70	2017									99	Large Growth	Data Coverage % 1,123 US Fund		ningstar
	0.00	0.00	0.00	n n	Short %		1405	37	0.62	3.49	57.15	2018									99	÷	nd		Analyst-Driven % Morningstar Rating <sup>™</sup>
)	_	0	0		, Share Chg		1360	61	-5.41	-0.51	73.39	2019					}				100	_		S&P 5	Standa
	N	N	•	22	Chg /		1289	8	-1.40	18.69	96.98	2020					4				100	_		S&P 500 TR USD	Standard Index
Z mi		28 mil v	21 mil I		Share F		1237	62	-7.42	-8.52	106.34	2021							<b>\</b>		ଞ			SD	
NVIDIA Corn	Amazon.com Inc	Apple Inc	Microsoft Corp	26% Turnover Ratio	Holdings : 76 Total St		1235	92	-10.91	-40.03 -21.94	61.72	2022						*			92	_	USD	Russ	Cate
, orn	com Inc	0	't Corp	ver Ratio	Holdings : 76 Total Stocks . 0 Total Fixed-Income.		1248		3.15 3.15	9.47	73.23	04-23		4k	10k	ZUK	2	¥40k	60k	100k	96			ell 1000 Gro	Category Index
					xed-Income.		No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	NAV/Price	History	Performance Quartile (within category)		41,355	Standard Index	Category Average	41,333	Growth of \$10,000		Investment Style Equity Stocks %		,	Russell 1000 Growth TR US Fund Large Growth	Morningstar Cat
/ 20	5.11	9.99	13.14	;	Net Assets %														th Ctock					rowth	

Porttolio Analysis 03-31-2023	<b>IS</b> U3-31-2U23							
Asset Allocation %	Net %		Short %	Share Chg	Share	Holdings : 76 Total Stocks O Total Eius		Net Assets
Cash	0.05	0.05	0.00	since 12-2022	Amount	26% Turnover Ratio	ea-Income,	%
Non LIC Ctoolo	0 20.3/	00.0/		D	21 mil	Microsoft Corp		13.14
Non-US Stocks	9.09 9.09	9.09		D(	78 mil	Annle Inc		
	0.00	0.00		) (	3	A Inn		1 1
Other/Not Clsfd	3.69	3.69	0.00	1	23 mil	Amazon.com Inc		5.11
Total	100.00	100.00	0.00	Ð	7 mil	NVIDIA Corp		4.29
				1	19 mil	Alphabet Inc Class A		4.27
Equity Style	Portfolio Statistics	Port Hel Avg Index	Hel Cat	Ð	81 mil	Aggregate Miscellaneous Equity	ous Equity	3.69
Lat Distor	P/E Ratio TTM			Ð	3 mil	UnitedHealth Group Inc	C	3.26
əb.	P/C Ratio TTM		1.14	Ð	7 mil	Visa Inc Class A		3.19
biM	P/B Ratio TTM		1.04	D	3 mil	Mastercard Inc Class A		2.61
im2	Geo Avg Mkt Cap 307401	07401 1.57	0.96	D	з mil	Intuit Inc		2.44
	ę			) (	1 3.	ACIVIL Holding NIV ADD	J	2 1 /
Fixed-Income Style				D	9 mil	Advanced Micro Devices Inc	es Inc	1 87
Ltd Mod Ext	Avg Eff Maturity			D	2 mil	Eli Lillv and Co		1.68
цбіН	Avg Wtd Comon			1	7 mil	Fiserv Inc		1.60
bəM	Avg Wtd Price			Ð	4 mil	Meta Platforms Inc Class A	ass A	1.58
MOT				Sector Weightings	ghtings		Stocks %	Rel Std Index
Credit Auglity Break			Rond %	Դ Cyclical	cal		24.4	0.88
				🚓 Basic	<b>Basic Materials</b>	ls	1.1	0.48
AA				🚓 Consi	Consumer Cyclical	lical	16.4	1.61
A				🔂 Finan	<b>Financial Services</b>	ices	6.9	0.55
BBB				Real Estate	state		0.0	0.00
BB				🗸 Sensitive	tive		60.5	1.27
B			1	Comm	nunicatio	Communication Services	10.7	1.29
Below B				Energy	~		0.0	0.00
NR				Industrials	trials		3.3	0.40
Regional Evoneuro	Stocks %	Rol S	Rel Strl Index	Technology	ology		46.6	1.76
Americae	2 Ub	1010	n q1	→ Defensive	Isive		15.1	0.61
Greater Furnne	88		8 9 30	📰 Consi	<b>Consumer Defensive</b>	fensive	1.9	0.26
Greater Asia	1.0		32.44	Healthcare	hcare		13.2	0.91
				O Utilities	es		0.0	0.00
Base Currency:	USD			Purchase Constraints:	Constraii	nts: —		
						-		

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Release date 04-30-2023

### (USD) Market Index InstIPlus Vanguard Extended

Performance 04-30-2023	-30-2023				
Quarterly Returns	1st Qtr	2nd Otr	3rd Qtr	4th Qtr	Total %
2021	7.79	7.12	-3.27	0.70	12.48
2022	-9.33	-20.67	-2.73	<u>5</u> .11	-26.45
2023	5.85				3.56
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-6.07	10.74	5.55	8.64	8.99
Std 03-31-2023	-14.13		6.06	8.94	9.25
Total Return	-6.07	10.74	5.55	8.64	8.99
+/- Std Index	-8.73	-3.78	-5.90	-3.57	
+/- Cat Index	-4.38	-3.04	-2.43	-1.22	
% Rank Cat	92	89	79	61	
No. in Cat	417	380	356	228	
		Su	Subsidized	Unsu	Unsubsidized
7-day Yield					

#### 30-day SEC Yield 05-16-23 Performance Disclosure 1.38 1.38

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

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

#### Sales Charges Fees and Expenses

#### **Deferred Load %** Front-End Load %

3 Yr	<b>Risk and Return Profile</b>	<b>Gross Expense Ratio</b> %	Net Expense Ratio %	12b1 Expense %	Management Fees %	Fund Expenses	
5 Yr							

0.04 04

0.03

Ă Å

NA

1 01	1 09	_	Reta
2.01	86	-3.86	Alpha
Brd Grt Ext TR USD	Brd Grt		
Best Fit Index		Standard Index	MPT Statistics
0.48	0.28	0.51	Sharpe Ratio
8.64	5.55	10.74	Mean
18.87	23.95	22.31	Standard Deviation
10 Yr	5 Yr	3 Yr	
Avg	-Avg	-Avg	Morningstar Return
+Avg	+Avg	High	Morningstar Risk
2★	2★	<b>1</b> ★	Morningstar Rating <sup>™</sup>
228 funds	356 funds	380 funds	
10 Yr	5 Yr	3 Yr	

IVIEdIII	10.74	0.00	0.04	מתנ
Sharpe Ratio	0.51	0.28	0.48	BB
MPT Statistics	Standard Index	Best Fit Index Morningstar US Sml Brd Grt Ext TR USD	Index S Sml	B Below B
Alpha	-3.86	Brd Grt Ext IR USD 2.01	R USD 2.01	NR
Beta	1.09		1.01	<b>Regional Exposure</b>
R-Squared	77.67	60	96.35	Americas
12-Month Yield		<u>, </u>	1.34%	Greater Europe
Potential Cap Gains Exp		<u>ٺ</u>	-3.83%	Greater Asia
Departition				
Operations				

Consumer Detensive

**18.6** 3.1 13.5 2.0

**0.75** 0.42 0.93 0.71

20.7

0.78

-3.86	2.01				Technology
1.09	1.01	Regional Exposure	Stocks %	Rel Std Index	Гесплону
1 77.67	96.35	Americas	99.1	1.00	→ Defensive
Yield	1.34%	Greater Europe	0.7	0.65	Lonsumer Detension
Cap Gains Exp	-3.83%	Greater Asia	0.2	7.03	<ul><li>Healthcare</li><li>Utilities</li></ul>
Vanguard		Base Currency:	USD		Purchase Constraints:
Multiple		Ticker:	VEMPX		Incept
25.4 Years		ISIN:	US9229083715		Type:
Growth		Minimum Initial Purchase:	\$100 mil		Total Assets:

01-14-2011 \$13,685.58 mil ₹

Manager: Objective:

Tenure:

Family:

Asset A	Portfo	412	24	1.24	2.52	18.52	113.18	2012			Morningstar Medalist Rat Gold
Asset Allocation % 03-31-2023	Portfolio Analysis 04-30-2023	399	18	3.67	6.04	38.43	154.84	2013			Morningstar Medalist Rating <sup>™</sup> Sold
<b>%</b> 03-31-2	<b>rsis</b> 04-3	369	59	-5.62	-6.09	7.60	164.36	2014			
	0-2023	432	45	-0.79	-4.62	-3.23	156.89	2015			st-Driver ) ) ) ) ) )
3 Net %		427	37	2.38	4.22	16.18	179.47	2016		98 🖽 . Car	n% Mor *★ 380
2 18		443	29	-0.39	-3.70	18.13	209.16	2017		8 Blend	Analyst-Driven % Morningstar Rating 100.00 ** Data Coverage % 380 US Fund Mid-
Short %		464	ы	-0.29	-4.96	-9.35	186.80	2018		97	r Rating <sup>"</sup> d Mid-
	Ţ	404	36	-2.48	-3.42	28.07	235.94	2019		9	
e Chg	Top Holdings 03-31-2023	407	_			32.24	307.84	2020		18 🖽	<b>Standard Index</b> S&P 500 TR USD
Share Amount	<b>gs</b> 03-31		1	-10.10	-16.23	12.48	342.27	2021		9	<b>x</b> ISD
Holdings : 3,611 Tota	-2023		I	-9.14	-8.34	-26.45	248.85	2022		97	<b>Cate</b> Russ USD
Share Holdings : Amount 3,611 Total Stocks , 0 Total Fixed-Income,		429		0.05	-5.62	3.56	256.85	04-23		97 1100 400 400 400 400 400 400 400 400 40	<b>Category Index</b> Russell Mid Cap TR USD
I Fixed-Income, Net Assets %		No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	<b>Performance Quartile</b> (within category)	Investment Style Equity Stocks % Growth of \$10,000 — Vanguard Extended Market Index InstiPlus 30,835 — Category Average 28,811 — Standard Index 41,355	Morningstar Cat US Fund Mid-Cap Blend

Portfolio Analysis 04-30-2023	is 04-30-2023				Top Holdings 03-31-2023	ngs 03-31	-2023	
Asset Allocation % 03-31-2023		Net % Lor	Lona % Sh	Short %	Share Chg	Share	Holdings :	Net Assets
Cash				0.18	since		3,611 Total Stocks , 0 Total Fixed-Income	
US Stocks	10	95.88 95		0.00	U3-ZUZ3		11% lumover Hatio	
Non-US Stocks				0.00	Ð	28 mil	Uber Technologies Inc	1.03
Bonds				0.00	Ð	10 mil	Blackstone Inc	1.01
Other/Not Clsfd				0.00	Ð	4 mil	Palo Alto Networks Inc	0.98
Total	10(	100.00 100	100.18	0.18	Ð	5 mil	Airbnb Inc Ordinary Shares - Class	Class 0.77
					Ð	4 mil	Snowflake Inc Ordinary Shares - Cl	s - Cl 0.69
Equity Style	Portfolio Statistics	<b>tics</b> Port Avg		Rel Cat	Ð	2 mil	Lululemon Athletica Inc	0.69
Value Dilad	P/E Ratio TTM	13	0.65	0.93	Ð	_	Workday Inc Class A	0.68
V at	P/C Ratio TTM	10.4 2.2	0.68	n on	Ð	3 mil	Cheniere Energy Inc	0.64
bik	Geo Avri Mkt (	9685 ue;	0.03	о.зо	Ð	7 mil	Block Inc Class A	0.60
Ilem2	\$mil		0.00	0.00	Ð	12 mil	Marvell Technology Inc	0.60
					Ð	8 mil	KKR & Co Inc Ordinary Shares	
d-Incom	Δvn Eff Maturity	Ż			Ð	3 mil	CrowdStrike Holdings Inc Class A	
Ltd Mod Ext	Avg Eff Duration	5 4			Ð	3 mil	Ferguson PLC	0.45
μδιι	Avg Wtd Coupon	on			Ð	6 mil	Apollo Global Management Inc Class	
beM	Avg Wtd Price				Ð	6 mil	The Trade Desk Inc Class A	0.44
MOT					Sector Weightings	ghtings	Stocks %	s % Rel Std Index
Cradit Auglity Brag			B	nd %	∿ Cyclical	al		37.4 1.35
			5		🚓 Basic	<b>Basic Materials</b>		3.8 1.60
AA					🕰 Consu	Consumer Cyclical		12.4 1.22
Þ					🚅 Financ	Financial Services		14.2 1.13
BBB					Real Estate	state		7.0 2.66
BB					√ Sensitive	tive	-	44.0 0.92
В				I	Comm	unicatior	Communication Services	4.0 0.48
Below B					Energy	~		4.5 0.95
NR					Industrials	rials	1	14.9 1.81

ovided in a separate agreement, you may use this report only in the country in which its original distributor is based. The information, data, analyses initiary information of Morninostar. (2) may include or be derived from, account information provided by your financial prodessional which cannot be	Minimum Initial Purchase: \$100 mil	ISIN: US	Ticker: VE
the country in which its original distrib d from. account information provided b	00 mil	US9229083715	VEMPX
utor is based. The information, data, analyses v vour financial professional which cannot be	Total Assets:	Type:	Incept:

**MORNINGSTAR**®

Release date 04-30-2023

## Vanguard Institutional **ndex Instl PI (USD)**

Morningstar Medalist Rating<sup>™</sup> Sold

Analyst-Driven % Morningstar Rating<sup>™</sup> 100.00 ★★★★

S&P 500 TR USD Standard Index

Russell 1000 TR USD Category Index

US Fund Large Blend Morningstar Cat

02-21-2023 100

100.00

Data Coverage %

1,268 US Fund Large Blend 100

100

100

100

----100

100

100

īo 📕

Investment Style Equity

100

. 60k

Growth of \$10,000 Stocks %

Vanguard Institutional Index

40

. 20k

41,311 Instl PI

10

Category Average 33,760
Standard Index 41,355

100 

100 

7-day Yield Un	1405 1268 1169	+/- Lat Index U.82 U.28 U.37 U.24 % Rank Cat 36 32 19 10	-0.02 -0.02 -0.01	Total Return 2.64 14.50 11.43 12.19	Std 03-31-2023 -7.75 11.18 12.23	Load-adj Mthly 2.64 14.50 11.43 12.19	Trailing Returns 1 Yr 3 Yr 5 Yr 10 Yr	2023 7.49	2022 -4.61 -16.11 -4.89 7.55	2021 6.18 8.54 0.57 11.02	Quarterly Returns 1st Qtr 2nd Qtr 3rd Qtr 4th Qtr	Performance 04-30-2023
Uns	867	u.24	-0.01	12.19	12.23	12.19	10 Yr		7.55	11.02	4th Qtr	
Unsubsidized		1		8.08	8.05	8.08	Incept	9.17	-18.13	28.69	Total %	

Performance Quartile (within category)

.₽

### 30-day SEC Yield 05-16-23

Performance Disclosure The Overall Morningstar Rating is based on r (if applicable) Morningstar metrics. derived from a weighted average of the three

principal value of an investment will fluctuate shares, when sold or redeemed, may be wort their original cost. does not guarantee future results. The invest The performance data quoted represents pas

month-end, please call 888-809-8102 or visit quoted herein. For performance data current Current performance may be lower or higher Fees and Expenses

## Sales Charges

#### Deferred Load % Front-End Load %

2  $\infty >$  $\sim$ 12 Management Fees % **Risk and Return Profile Gross Expense Ratio** % Net Expense Ratio % 12b1 Expense % Fund Expenses 3 Yr

1.63%			12-Month Yield
100.00		100.00	R-Squared
1.00		1.00	Beta
-0.02		-0.02	Alpha
Best Fit Index S&P 500 TR USD	Be S&P !	Standard Index	MPT Statistics
0.79	0.59	0.77	Sharpe Ratio
12.19	11.43	14.50	Mean
14.85	18.64	18.03	Standard Deviation
10 Yr	5 Yr	3 Yr	
High	+Avg	+Avg	Morningstar Return
Avg	Avg	Avg	Morningstar Risk
5 <b>★</b>	4★	3 <b>★</b>	Morningstar Rating <sup>TM</sup>
867 funds	9 funds	1,268 funds 1,169 funds	1

#### Family: Operations Potential Cap Gains Exp Vanguard

Objective:

Growth and Income 22.4 Years Multiple

ISIN:

Minimum Initial Purchase:

\$100 mil US9220402096

Type: Total Assets:

₹

\$239,612.84 mil

Tenure:

Manager:

	1.63% 59.50%	.00 100.00		dex Best Fit Index S&P 500 TR USD	U.59 U.79	_	18.64 14.85		_	4¥ Avg b	867 1		0.02	0.02		0.02		7	7		it www.vanguara.com	t to the most recent	r than return data	ite; thus an investor's rth more or less than	ist performance and stment return and	e-, nve-, and no-year	risk-adjusted returns,		.58 1.58	ized Unsubsidized	169 867
Base Currency: Ticker:	% Americas % Greater Europe Greater Asia			lex SD Relow R		19 BBB	85 A A		gh Credit Quality Breakdown	Avg			Ltd Mod Ext	02					NA Equity Style	Total	m. Uther/Not Cista		Non-US Stocks		Portfolio Ana	1686 1559	34		58 0.00 -0.02	130.53	2012 2013
		re							eakdown —	γον		Avg Wtd Coupon	Avg Eff Maturity			Geo Avg Mkt Cap	P/B Ratio TTM	P/E Ratio TTM	Portfolio Statistics		a	-		<b>%</b> 03-31-2023	Portfolio Analysis 04-30-2023	1568 1606	18	0.44	-0.01 0.01	188.68 18	2014 2015
USD	98.9 1.0 0.0	Stocks %									rice .	oupon	turity			kt Cap 195802	TM 3.8		tics	100.00 100.00			1.08 1			1409	26	-0.10	-0.01	203.84 2	2016
	1.00	Rel Std Index	I					I	Bond %							1.00	3 1.00 0.95	1.00	Rel Index		U.UU U.UU		1.08 0.00	<u>8</u>		1396 1402			-0.02 -0.02	227.57	2017 2018
Purchase Incept:	<ul><li>Consume</li><li>Healthca</li><li>Utilities</li></ul>	→ Defe		Communication		🖻 Real	🗣 Finar	Basic	¶r Cyclica	Sector Weightings	0	1	•	1) (	D	1	) ()	1	0	1	) €	) ()	1	Share Ung since 03-2023	Top Hold	1387 1363			0.00 0.01		2019 2020
Purchase Constraints: Incept:	Consumer Defensive Healthcare Utilities	Defensive	Industrials	Communication Services Energy	itive	Real Estate	Financial Services	Basic Materials Consumer Cyclical	Ical	ightings	16 mil Pr			18 mil Jo	- 1	29 mil E				41 mil A				Share Ho Amount 50 39		1382	-	2.23	-0.02	405.80	0 2021
	sive			Services			ŝ	a			Procter & Gamble Co	Visa Inc Class A	PMorgan C	Johnson & Johnson	nitedHealt	Exxon Mobil Corp	Alphabet Inc Class C	erkshire H	Tesla Inc	Alphabet Inc Class A		Microsoft Corp	Apple Inc	Holdings : 504 Total Stocks , I 3% Turnover Ratio	2023	1358 1	-		-0.02 -0	<u>ب</u>	2022 0-
 07-07-1997	7.3 14.5 2.9	20.4 <b>24.7</b>	8.2	8.3 4.7	47.6	2.6	12.6	2.4 10.2	<b>7.12</b>	Stocks %	amble Co	ISS A	JPMorgan Chase & Co	Johnson & Johnson	th Groun Inc	Exxon Mobil Corp	c Class C	Berkshire Hathaway Inc Class B		c Class A		orp		Holdings: 504 Total Stocks , 0 Total Fixed-Income, 3% Tumover Ratio		1464 No. of Funds in Cat			-0.01 +/- Standard Index		04-23 History
	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	Rel Std Index	1.02	1.06	1.11	1.17	1 78	1.31	1.57	1.61	1.62	1.79	1.00	6.22	7.11	Net Assets %	•						

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# Vanguard Institutional Total International Stock Market Index Trust

International stock fund

### Fund facts

2007	00/241/00	1111 O 7177 #			•	-
0400	<i>74,76,70</i>	MM ALC CCA	л	N N	ა	-
number	date	assets	ightarrow High			Low €
Fund	Inception	Total net			vel	Risk leve

## Investment objective

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

## Investment strategy

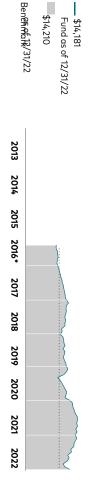
The trust portfolio employs an indexing investment approach designed to track the performance of the FTSE Global All Cap ex US Index, a free-float-adjusted

market-capitalization-weighted index designed to measure equity market performance of companies located in developed and emerging markets, excluding the United States. The index includes 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 index.

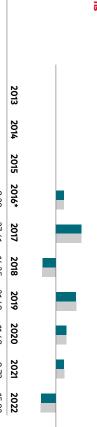
### Benchmark

FTSE Global All Cap ex US Index

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



## Annual returns



#### Benchmark Fund T. T. Т L 8.29 8.36 27.41 27.61 -14.35 -14.61 21.80 21.68 11.48 11.24 8.84 8.73 -15.92 -16.10

### **Total returns**

Fund

Benchmark

				Periods end	Periods ended March 31, 2023
Quarter	Quarter Year to date	e One year	Three year:	Five years	s Five years Since inception
6.71%	6.71%	-4.51%	12.80%	2.62%	6.86%
6.42%	6.42%	-5.71%	12.47%	2.61%	I

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

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

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

## Market allocation-stocks



15.3% 10.0

Switzerland Germany

5.8 5.2 5.0

8.6 7.2

Australia

7.0

India

4.6 4.0

Taiwan

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# Vanguard Institutional Total International Stock Market Index Trust

International stock fund

## **Ten largest holdings**\*

<del>`</del>	Taiwan Semiconductor Manufacturing Co. Ltd.
	Nestle SA
ω	Tencent Holdings Ltd.
4	ASML Holding NV
ы	Samsung Electronics Co. Ltd.
6	Novo Nordisk A/S
7	LVMH Moet Hennessy Louis Vuitton SE
ω	8 Roche Holding AG

### 9 AstraZeneca plc

10 Shell plc

Top 10 as % of total net assets 9.6%

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

## **Sector Diversification**

Financials	18.7%	Consumer Staples
Industrials	15.0	Energy
Consumer Discretionary	13.8	Utilities
Technology	12.8	Real Estate
Health Care	9.1	Telecommunications
Danin Matorialo	77	Othor

					0
Other	Telecommunications	Real Estate	Utilities	Energy	Consumer Staples
0.0	3.2	3.2	ω .ω	5.6	7.6
		ommunications	state	ss istate ommunications	<ul> <li>Energy</li> <li>Utilities</li> <li>Real Estate</li> <li>Telecommunications</li> <li>Other</li> </ul>

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.

Dasic Materials

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## Plain talk about risk

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

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

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

companies in foreign countries or regions. Because the fund may invest a large portion of its assets in securities of companies located in any one country or region, its performance may be hurt disproportionately by the poor performance of its investments in that area. Country/regional risk is especially high in emerging markets. 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

Investment style risk: The chance that returns from small- and mid-capitalization stocks, to the extent that the fund invests in them, will trail returns from the overall stock market. Historically, these stocks have been more volatile in price than the large-cap stocks that dominate the overall market, and they often perform quite differently.

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

## Note on frequent trading restrictions

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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they might be put.

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# For more information about Vanguard funds or to obtain a prospectus, see below for which situation is right for you.

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

## 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

Release date 04-30-2023

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

Performance 04-30-2023	-30-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Qtr	4th Qtr	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				6.28
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-2.61	9.77	8.95	10.22	11.62
Std 03-31-2023	-11.75		9.28	10.55	11.93
Total Return	-2.61	9.77	8.95	10.22	11.62
+/- Std Index	-5.27	-4.75	-2.49	-1.98	
+/- Cat Index	-4.21	0.56	-0.01	-0.62	
% Rank Cat	56	44	32	48	
No. in Cat	570	527	497	386	
		S	Subsidized	Unsu	Unsubsidized
7-day Yield					

#### 30-day SEC Yield 05-15-23 Performance Disclosure 0.81 0.81

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

The performance data quoted represents past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus an investor's shares, when sold or redeemed, may be worth more or less than and the source of the sourc 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 800-662-7447 or visit www.vanguard.com.

Bonds

Other/Not Clsfi

#### Sales Charges Fees and Expenses

#### **Deferred Load %** Front-End Load %

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

0.07

Fixed-Income St

Mod

0

0.06 NA

Å Å

> Equity Style Total

58

Brd Grt IR USD		-4 91	ΔInha
Best Fit Index Morningstar US Mid	dex Be Mornings	Standard Index	MPT Statistics
0.60	0.43	0.48	Sharpe Ratio
10.22	8.95	9.77	Mean
17.23	21.90	21.61	Standard Deviation
10 Yr	5 Yr	3 Yr	
Avg	+Avg	Avg	Morningstar Return
Avg	Avg	Avg	Morningstar Risk
3★	4★	3★	Morningstar Rating <sup>TM</sup>
386 funds	497 funds	527 funds	
10 Yr	۶Yr	3Yr	

 $\geq$ ₿ AAA

Credit Quality Br

Base Currency:			Vanguard	Family: Va	Far
				Operations	ę
Greater Asia	-5.15%			Potential Cap Gains Exp	Pot
Greater Europe	0.77%			12-Month Yield	12-
Americas	98.99		83.58	R-Squared	<del>P</del> .
<b>Regional Exposur</b>	1.04		1.10	a	Beta
	-1.15		-4.91	ha	Alpha
NR	Brd Grt TR USD	Brd Gr			
Below B	ir US Mid	Morningstar US Mid	_		
æ	Best Fit Index	Best	Standard Index	MPT Statistics	≤P
ВВ				-	
	0.60	0.43	0.48	Sharpe Ratio	Sh
DDD	10.22		0.77	<u>c</u>	

Growth	10.3 Years	Multiple	Vanguard	
Minimum Initial Purchase:	ISIN:	Ticker:	Base Currency:	
\$3,000	US9219377283	VMGMX	USD	
Total Assets:	Type:	Incept:	Purchase Constraints:	

\$9,807.02 mil ₹ 09-27-2011

**MCRUNGSTAR**®

Objective: Manager:

Tenure:

							а.	I			. 10	ωı	0 4	1 00		JU ~					
Cash US Stocks Non-US Stocks	Asset Allocation % 03-31-2023	737	30	0.15	-0.05	15.96	29.55	2012				)				100		01-20 202	Gold	Morningstar Medalist Rat	
ks Stocks	ocation %	703	88	-3.52	-0.17	32.22	38.83									100		ć	3 🗖	Morningstar Medalist Rating <sup>™</sup>	
	03-31-20	749	ஏ	1.58	-0.21	13.48	43.72	2014								99		-00.00	Data Co	Analyst 100.00	
(0		733	ក	-0.78	-2.36	-0.98	42.94	2015				}				100		-	Data Coverage %	Analyst-Driven % 100.00	
0.33 98.46 1.21	Net %	644	40	-0.58	-5.21	6.75	45.46									100		Cap			
0.34 98.46 1.21	Long %	617	65	-3.44	0.00	21.83	54.96									100		Cap Growth	527 US Fund Mid-	Morningstar Rating" ***	
0.00 0.00	Short %	605	46	-0.85	-1.22	-5.60	51.48	2018					Ş			100			d Mid-	Rating	2
since ⊕ ⊕ 03-2023		618	42	-1.61	2.37	33.86	68.34	2019					}			100					
23	din	604	4	- <u>1</u> .11	16.08		91.26	2020					$\leq$	2		100				Standard Index S&P 500 TR USD	
Amount 4 mil	<b>gs</b> 03-31- Share H	588	19	7.75		20.48	109.55	2021								100				SD ~	
160 Iotal Stocks , 0 22 % Tumover Ratic Amphenol Corp Motorola Soluti	1-2023 Holdings :	586	64	-2.12	-10.73	-28.84	77.37	2022					~			99			TR USD	Cate Russ	
160 lotal Stocks ,0 lotal Fixed-Income, 22% Turnover Ratio Amphenol Corp Class A Motorola Solutions Inc		573	Ι	-1.28	-2.90	6.28	82.06			4k		ZUK	201	40k		100 100k			SD	<b>Category Index</b> Russell Mid Cap (	
A ived-Income, A		No. of Funds in Cat	% Rank Cat	+/- Category Index	+/- Standard Index	Total Return %	NAV/Price	History	<b>Performance Quartile</b> (within category)		41,355	31,123	34,688	Vanguard Mid-Cap Growth Index Admiral	Growth of \$10,000	Stocks %	Investment Style			Category Index Morningstar Cat Russell Mid Cap Growth US Fund Mid-Cap Growth	
1.64 %	Net Assets													Growth	-					1p Growth	

					Top Holdings 03-31-2023	ngs 03-31	1-2023			
<b>n %</b> 03	n%03-31-2023 N		Long %	Short %	Share Chg		Holdings : 160 Total Stocks O Total Eived	1	Net Assets	
	۵	08.33	0.34 08.46	0.01	03-2023	AIIIUUIIL	22% Turnover Ratio		70	
S	c	1.21	1.21	0.00	Ð	4 mil	Amphenol Corp Class A		1.64	
		0.00	0.00	0.00	Ð	1 mil	Motorola Solutions Inc		1.62	
fd		0.00	0.00	0.00	1	4 mil	Microchip Technology Inc		1.55	
	10	100.00 1	100.01	0.01	-		DexCom Inc		1.52	
	Portfolio Statistics		Port Re	_	ŧ	770,619	IVISUI INC		1.44	12
		103	Avg Index		Ð	5 mil	Realty Income Corp		1.42	
ijen	P/E Ratio TTM					590,183	Cintas Corp		1.35	
ət	P/C Ratio I IN				Ð	2 mil	Arista Networks Inc		1.31	
biN	Ren Avn Mkt f		4./ I.23 7/881 0.13	3 1 A8	1	2 mil	Cheniere Energy Inc		1.30	
llem2	Smil				Ð	354,398	TransDigm Group Inc		1.29	
•					Ð	1 mil	IQVIA Holdings Inc		1.25	
tyle	Avn Eff Maturity	ritz			Ð	2 mil	Hess Corp		1.24	
Н	Avg Eff Duration	ion			Ð	2 mil	Waste Connections Inc		1.21	
цбі	Avg Wtd Coupon	Don			Ð	3 mil	<b>ON</b> Semiconductor Corp		1.20	
bəM	Avg Wtd Price	CD			Ð	3 mil	Welltower Inc		1.19	
MOT					Sector Weightings	ghtings		Stocks %	Rel Std Index	
roskd.				Rond %	∿ Cyclical	cal		28.2	1.02	
TEANUOWI					🚓 Basic	<b>Basic Materials</b>	S	3.6	1.51	
					Consu	Consumer Cyclical	ical	12.1	1.19	
					🖷 Finan	Financial Services	ces	5.5	0.44	
					Real	Real Estate		7.1	2.69	
					🗸 Sensitive	itive		54.1	1.14	
					Comn	nunicatior	Communication Services	4.8	0.58	
					Energy	Y		6.8	1.46	
				l	C Industrials	trials		14.5	1.77	
	St	Stocks %	Rel	Rel Std Index	Techr	Technology		28.0	1.06	
		100.0		1.01	→ Defensive	ısive		17.6	0.72	
Ð		0.0		0.00	🚍 Consi	Consumer Defensive	ensive	1.5	0.20	
		0.0		0.00	Healthcare	hcare		16.2	1.12	
					Utilities	es		0.0	0.00	

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Release date 04-30-2023

Valiguaru N Indov Admi	Valiyuatu Miu-cap Value Index Admiral (IISD)	Medalist Rating <sup>™</sup>	* 100.00 ****	**** 382 115 Fund		S&P 500 TR USD	Mid Cap	Value US Fund Mid-Cap Value	p Value
illuex Autilirat	rai (บอม)	01-24-2023	100.00	Cap Value	Mid-		IRUSD		
Performance 04-30-2023	2nd Otr 3rd Otr 4th Otr Total %						_	Investment Style Equity	
13.70	-0.19 8.21	UUI.	UUI UUI	MIL 66		RF DOL	100k	Stocks %	
0.04	-5.55 12.11						80k	Growth of \$10,000	
2023 -0.36	0.31						40k	Vanguard Mid-Cap Value Index Admiral	Value
Trailing Returns 1 Yr Load-adj Mthly -2.88	3 Yr 5 Yr 10 Yr Incept 16.38 6.67 9.35 11.70						ZOk	32,976 — Category Average	
Std 03-31-2023 -8.26 Total Return -2.88	6.61 9.46 11.72 16.38 6.67 9.35 11.70						10k	29,359 — Standard Index	
	-4.78 -2.85							41,355	
	0.23			-					
% Rank Cat 75	65 51 21							Performance Quartile	
()	N	2012 2013	2014 2015	2016 2017	2018 2019	9 2020 2021	2022 04-23	(within category) History	
	Subeidized Unsubsidized					C1 C1	200.00	NIAV//Drico	
7-day Yield		30.47 41.30 16.02 37.66	46.30 44.54 13.98 -1.80		49.33 bi./9 -12.42 27.99	9 01.01 77.84	70.08 69.92 -7.90 0.31	NAV/Price Total Return %	
30-day SEC Yield 05-15-23	2.31 2.31			-4.79		-15.86	10.21	+/- Standard Index	
Performance Disclosure The Overall Morningstar Rating	<b>Performance Disclosure</b> The Overall Morningstar Rating is based on risk-adjusted returns,	-2.48 4.20	-0.77 2.98	-4.74 3.70	-0.13 0.93	3 -2.42 0.42	4.13 -1.01	+/- Category Index % Bank Cat	
derived from a weighted average o	derived from a weighted average of the three-, five-, and 10-year life and inable) Morningstar metrics	~	4			415	~	No. of Funds in Cat	
The performance data quoted i	The performance data quoted represents past performance and	Portfolio Analysis 04-30-2023	sis 04-30-2023		-	Top Holdings 03-31-2023	1-2023		
principal value of an investmen	principal value of an investment will fluctuate; thus an investor's	Asset Allocation % 03-31-2023				Share Chg Share	gs : tal Stocks - N Total	Eiverl-Income	Net Assets
shares, when sold or redeemee their original cost	shares, when sold or redeemed, may be worth more or less than their original cost	Uash US Stocks		97.69 97.69	0.00		18% Turnover Ratio		
Current performance may be lower or higher than return data ouoted herein. For performance data current to the most recei	wer or higher than return data a data current to the most recent	Non-US Stocks Bonds				⊕ 6 mil 2 mil	Corteva Inc Arthur J. Gallagher & Co	* Co	1.39 1.31
month-end, please call 800-66.	month-end, please call 800-662-7447 or visit www.vanguard.com.	Other/Not Clsfd			0.00	9 9 2 mil	Nucor Corp		1.28
Calos Charnes		Total	_	100.00 100.05	0.05 +		Carrier Global Corp Ordinary Shares	Irdinary Shares	1.24
Front-End Load %	NA	Equity Style	Portfolio Statistics		Rel Cat		PG&E Corp		1.16
Deferred Load %	NA	Value Blend Growth อธิมชา	P/E Ratio TTM	14.9 10.2	1.04 1.08		d	-	1.13
Fund Expenses		biM		2.1		1 mil	Rockwell Automation Inc	n Inc	1.09
Management Fees %	0.06 NA	lism2	Geo Avg Mkt Cap \$mil	Cap 21653 0.11	1.65		VICI Properties Inc O	rdinary Shares	1.06
Net Expense Ratio %	0.07					€ 940,409	Ameriprise Financial Inc	Inc	1.05
Gross Expense Ratio %	0.07	Fixed-Income Style		rity	 )		The Kroger Co		1.03
<b>Risk and Return Profile</b>		μθίΗ		lion	 ₽€	2 mil	Dollar Tree Inc		0.30 0.98
	3 Yr 5 Yr 10 Yr 382 funds 362 funds 266 funds	bəM	Avg Wtd Price	e	 ⊕€		WEC Energy Group Inc	01	0.97
Morningstar Rating <sup>TM</sup>	×3 *	MOT			S I	Sector Weightings		Stocks % R	Rel Std Index
Morningstar Return	Avg	Cradit Duality Braz				∿ Cyclical		44.2	1.59
	l l	AAA						6.0	2.53
Standard Deviation	3 Yr 5 Yr 10 Yr 18.06 21.22 16.60	ÂĂ				Consumer Cyclical Financial Services	lical	9.6 17 7	0.95 1 40
Mean	6.67	A						11.0	4.17
Sharpe Ratio	0.86 0.34 0.57	BB				₩ Sensitive		25.6	0.54
MPT Statistics	Standard Index Best Fit Index						n Services	2.7	0.32
	Brd Val TR USD	NR				Industrials		2:9 13:1	1.60
Alplia Beta	0.90 0.98	Regional Exposure		Stocks % Bel	Rel Stri Index	Technology		6.9	0.26
R-Squared		Americas					-	30.2	1.22
12-Month Yield	2.28%	Greater Europe		1.3			ensive	7.0	0.96
Potential Cap Gains Exp	4.96%	Greater Asia		0.4		<ul><li>Healthcare</li><li>Utilities</li></ul>		9.4 13.8	0.65 4.79
Operations Family: Va	Vanguard	Base Currency:	USD	0	P	Purchase Constraints:	nts:		
er:	Multiple	Ticker:	٧N	VMVAX	-	Incept:	-60	27-2011	
Tenure 16	8 Years	ISIN:		US9219376947		Type: Total Accorte:	¢15	MF	
0	Growth					I Utal Assets.		2, 27 J. 7 U IIIII	

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## Vanguard Target Retirement 2020 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

1 2 3 4 5	<b>Risk level</b> Low ← → High
\$6,800 MM	Total net assets
0.075%	Expense ratio as of 03/31/21
02/29/08	Inception date
1474	Fund

## Investment objective

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

## Investment strategy

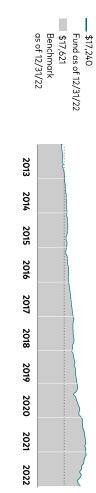
are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, to bonds and other fixed income investments will increase. Within seven years after 2020, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term Market Index Trust II, Vanguard Total International Vanguard Institutional Total International Stock 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 2020 (the The trust invests in other Vanguard mutual funds

mix of U.S. and foreign large-, mid-, and government, agency, corporate, and securitized mortgage-backed and asset-backed securities; and obligations issued by the U.S. Treasury; government, U.S. agency, and investment-grade U.S. corporate bonds; inflation-protected public small-capitalization stocks. 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 mix of short-, intermediate-, and long-term U.S. The trust's indirect bond holdings are a diversified

### Benchmark

Target Retirement 2020 Composite Ix

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



## Annual returns



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Fund	15.86	7.20	-0.59	7.02	14.19	-4.19	17.69	12.10	8.24	-14.14
Benchmark	16.21	7.37	-0.40	7.17	14.22	-4.13	17.87	12.85	8.43	-13.77

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### **Total returns**

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	Quarter	Year to date	One year	Three years	Five years	Ten years
und	4.78%	4.78%	-5.22%	6.93%	4.36%	5.84%
Benchmark	4.67%	4.67%	-5.12%	7.17%	4.66%	6.06%
he performance data shown represent past performance, which is not a guarantee of future results.	ıta shown rep	resent past perfo	rmance, whic	h is not a guara	ntee of future i	esults.

ᅻᇥᅸ 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. 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. vanguard.com/performance. The performance of an index is not an exact representation of any particular

returns are net of expenses 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 k: 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 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 through August 23, 2006, the MSCI Emerging Markets Index through December 31, 2009, and the 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 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, 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, 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, Bloomberg USA 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, Bloomberg USA Bl the CRSP US Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes

## Vanguard Target Retirement 2020 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds<sup>+</sup>

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<sup>+</sup> Fund holdings are subject to change.	Inst Ttl Intl Stk Idx Trust II	Total Stock Market Index Plus	Total Bond Market II Index
	17.3	25.3	32.2%
		STerm Inf Pro Sec Idx Fund	Total Intl Bnd II

14.1

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## Plain talk about risk

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 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. 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 trusts that invest mostly in bonds, but lower than those investing mostly in stocks. As

## Note on frequent trading restrictions

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please call 855-402-2646

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## Vanguard Target Retirement 2025 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

1 2 3 4 5 \$13,952 MM	Risk level Total net
0.075%	Expense ratio as of 03/31/21
02/29/08	Inception date
1475	Fund

## Investment objective

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

## Investment strategy

are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, asset allocation should resemble that of the Target to bonds and other fixed income investments will increase. Within seven years after 2025, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, Market Index Trust II, Vanguard Total International Vanguard Institutional Total International Stock Retirement Income Trust II. The underlying holdings increase. Within seven years after 2025, decrease while the percentage of assets allocated 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 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

Fund

Quarter

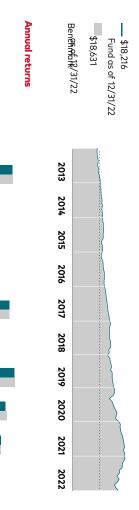
Year to d

5.33%

### Denchmark

Target Retirement 2025 Composite Ix

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



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Fund	18.23	7.22	-0.72	7.51	16.04	-5.07	19.75	13.39	9.90	-15.44
Benchmark	18.52	7.45	-0.58	7.67	16.08	-5.01	19.92	14.19	10.09	-15.02

### **Total returns**

			Periods ended	Periods ended March 31, 2023
ear to date	One year	Three years	Five years	Ten years
5.33%	-5.79%	8.42%	4.88%	6.45%

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 5.21% 5.21% -5.68% 8.68% 5.21% 6.68%

investment, as you cannot invest directly in an index. <u>vanguard.com/performance</u>. The performance For performance data current to the most recent month-end, visit our website at of an index is not an exact representation of any particular

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

## Vanguard Target Retirement 2025 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds<sup>+</sup>

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*Fund holdings are subject to change.	Inst Ttl Intl Stk Idx Trust II	Total Bond Market II Index	Total Stock Market Index Plus 33.1%
	22.3	28.3	33.1%
		STerm Inf Pro Sec Idx Fund	Total Intl Bnd II

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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

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please call 855-402-2646



## Vanguard Target Retirement 2030 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

1 2 3 4 5	<b>Risk level</b> Low ← → High
\$16,956 MM	Total net assets
0.075%	Expense ratio as of 03/31/21
02/29/08	Inception date
1476	Fund

## Investment objective

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

## Investment strategy

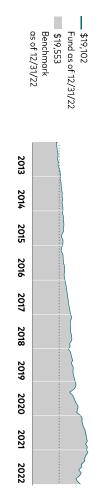
are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, to bonds and other fixed income investments will increase. Within seven years after 2030, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected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

mix of U.S. and foreign large-, mid-, and mortgage-backed and asset-backed securities; and obligations issued by the U.S. Treasury; government, U.S. agency, and investment-grade U.S. corporate bonds; inflation-protected public small-capitalization stocks. 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 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



## Annual returns



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Fund	20.55	7.22	-0.92	7.93	17.60	<del>-</del> 5.79	21.15	14.19	11.46	-16.16
Benchmark	20.88	7.51	-0.79	8.11	17.66	<del>-</del> 5.75	21.34	14.97	11.66	-15.71

### **Total returns**

Periods	
ended N	
March 3	
1, 2023	

	Quarter	Year to date	One year	Three years	Five years	Ten years
und	5.65%	5.65%	-6.14%	9.74%	5.29%	6.97%
Benchmark	5.59%	5.59%	-6.00%	10.04%	5.64%	7.21%
he performance data shown represent past performance, which is not a guarantee of future results.	:a shown rep	resent past perfo	ormance, whic	h is not a guara:	ntee of future i	results.

ᅻᇥᅸ 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. 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 vanguard.com/performance. The performance of an index is not an exact representation of any particular

returns are net of expenses 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 Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through 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 threafter; 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 thereafter; for international bonds, the Bloomberg US Total Market Index thereafter. International stock benchmark returns June 3, 2013; and for U.S. stocks, the MSCI US Broad Market Index through June 2, 2013, and the CRSP US Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes

Balanced fund (stocks and bonds)

Allocation of underlying funds<sup>+</sup>

\*Fund holdings are subject to change

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

38.1% 25.8

Total Bond Market II Index Total Intl Bnd II

10.9 25.2

Vanguard Target Retirement 2030 Trust II

Note on frequent trading restrictions

Plain talk about risk

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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 the fund's allocation between underlying funds gradually changes, the fund's overall level of risk also will dedine. In addition to the risks inherent in the asset classes of the underlying 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.

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## Vanguard Target Retirement 2035 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

1 2 3	Risk level
2 3 4 5	High
\$15,960 MM	Total net assets
0.075%	Expense ratio as of 03/31/21
02/29/08	Inception date
1477	Fund

## Investment objective

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

## Investment strategy

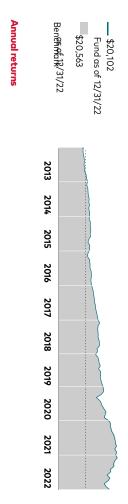
are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, asset allocation should resemble that of the Target to bonds and other fixed income investments will increase. Within seven years after 2035, the trust's and trusts according to an asset allocation strategy designed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

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

### Benchmark

Target Retirement 2035 Composite Ix

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



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Fund	22.93	7.22	-1.12	8.37	19.18	-6.54	22.57	14.92	13.07	-16.52
Benchmark	23.27	7.57	-1.02	8.55	19.25	-6.48	22.76	15.67	13.24	-16.10

### **Total returns**

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N N
2023

	Quarter	Year to date	One year	Three years	Five years	Ten years
und	5.94%	5.94%	-6.29%	11.22%	5.77%	7.52%
enchmark	5.87%	5.87%	-6.21%	11.48%	6.11%	7.76%
he performance data shown represent past performance, which is not a guarantee of future results.	ta shown repi	resent past perfo	ormance, whic	ch is not a guara	ntee of future i	results.

ㅋ 8 2 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. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or

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

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

Target Retirement 2035 Composite Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for emerging-market stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index 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 Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes.

Balanced fund (stocks and bonds)

Allocation of underlying funds<sup>+</sup>

\*Fund holdings are subject to change

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

42.5% 28.7

Total Intl Bnd II Total Bond Market II Index

> 20.1 8.7

Vanguard Target Retirement 2035 Trust II

### F1477 032023

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Note on frequent trading restrictions

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

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 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

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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 2040 Trust II

Balanced fund (stocks and bonds)

#### Fund facts

1 2 3 4 5	Risk level Low ← → High
\$14,782 MM	Total net assets
0.075%	Expense ratio as of 03/31/21
02/29/08	Inception date
1478	Fund

## Investment objective

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

## Investment strategy

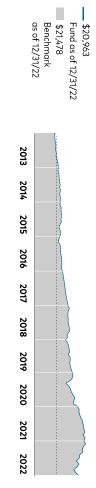
The trust invests in other Vanguard mutual funds and trusts according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2040 (the target year). The trust's asset allocation will become more conservative over time, meaning that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

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

#### Benchmark

Target Retirement 2040 Composite Ix

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



## Annual returns



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Fund	24.42	7.26	-1.47	8.79	20.81	-7.30	23.97	15.57	14.68	-16.94
Benchmark	24.79	7.61	-1.25	8.98	20.86	-7.23	24.19	16.31	14.84	-16.51

### **Total returns**

Periods	
ended	
March 3	
81, 2023	

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	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	6.21%	6.21%	-6.50%	12.65%	6.20%	7.99%
Benchmark	6.16%	6.16%	-6.43%	12.93%	6.55%	8.25%
The performance data shown represent past performance, which is not a guarantee of future result	ta shown repi	esent past perfo	rmance, whic	h is not a guara	ntee of future i	results.

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 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 vanguard.com/performance. The performance of an index is not an exact representation of any particular

returns are net of expenses 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 Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through 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 threafter; 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 thereafter; for international bonds, the Bloomberg US Total Market Index thereafter. International stock benchmark returns June 3, 2013; and for U.S. stocks, the MSCI US Broad Market Index through June 2, 2013, and the CRSP US Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes

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Balanced fund (stocks and bonds)

Vanguard Target Retirement 2040 Trust II

## Allocation of underlying funds<sup>+</sup>

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<sup>+</sup> Fund holdings are subject to change.	Inst Ttl Intl Stk Idx Trust II	Total Stock Market Index Plus
	31.7	46.9%

Total Intl Bnd II	I otal Bond Market II Index
6.4	15.0

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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 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. 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 2045 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

	-	Risk level
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-	\$13,298 MM	Total net assets
	0.075%	Expense ratio as of 03/31/21
	02/29/08	Inception date
	1479	Fund

## Investment objective

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

## Investment strategy

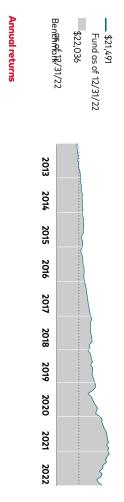
are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, to bonds and other fixed income investments will increase. Within seven years after 2045, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected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

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

### Benchmark

Target Retirement 2045 Composite Ix

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



#### Fund 24.43 2013 2014 7.22 -1.48 2015 2016 8.91 21.51 2017 -7.86 2018 25.07 2019 2020 16.27

## **Total returns**

Benchmark

24.79

7.61

-1.25

9.13

21.55

-7.77

25.37

17.02

16.45 16.33 2021

-16.93 -17.33

Periods ended March 31, 20
2023

	Quarter	Year to date	One year	Three years	Five years	Ten years
und	6.49%	6.49%	-6.67%	14.10%	6.65%	8.29%
enchmark	6.44%	6.44%	-6.67%	14.38%	7.01%	8.56%
he performance data shown represent past performance, which is not a guarantee of future results	ata shown repr	resent past perfo	ormance, whic	ch is not a guara	ntee of future i	esults.

ㅋ 8 2 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. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or

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

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 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 Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes.

2022

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## Vanguard Target Retirement 2045 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds<sup>+</sup>

\*Fund holdings are subject to change Inst Ttl Intl Stk Idx Trust II Total Stock Market Index Plus 51.5% 34.7

Total Intl Bnd II Total Bond Market II Index 4.1 9.7

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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**

1 2 3 4 5	Risk level
\$11,880 MM	Total net assets
0.075%	Expense ratio as of 03/31/21
02/29/08	Inception date
1480	Fund

## Investment objective

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

## Investment strategy

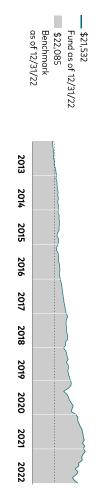
are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, to bonds and other fixed income investments will increase. Within seven years after 2050, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term 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

mix of U.S. and foreign large-, mid-, and mortgage-backed and asset-backed securities; and obligations issued by the U.S. Treasury; government, U.S. agency, and investment-grade U.S. corporate bonds; inflation-protected public small-capitalization stocks. 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 mix of short-, intermediate-, and long-term U.S. The trust's indirect bond holdings are a diversified

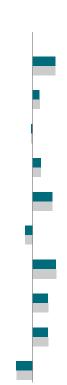
### Benchmark

Target Retirement 2050 Composite Ix

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



## Annual returns



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Fund	24.47	7.23	-1.54	8.95	21.48	-7.83	25.05	16.42	16.60	-17.45
Benchmark	24.79	7.61	-1.25	9.13	21.55	-7.77	25.37	17.17	16.75	-17.07

### **Total returns**

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	Quarter	Year to date	One year	Three years	Five years	Ten years
und	6.62%	6.62%	-6.70%	14.22%	6.73%	8.32%
lenchmark	6.58%	6.58%	-6.71%	14.51%	7.08%	8.59%
he performance data shown represent past performance, which is not a guarantee of future results.	ta shown rep	resent past perfo	rmance, whic	h is not a guara:	ntee of future r	esults.

ᅻᇥᅸ 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. 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 vanguard.com/performance. The performance of an index is not an exact representation of any particular

returns are net of expenses 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 Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through 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 threafter; 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 thereafter; for international bonds, the Bloomberg US Total Market Index thereafter. International stock benchmark returns June 3, 2013; and for U.S. stocks, the MSCI US Broad Market Index through June 2, 2013, and the CRSP US Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes

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Vanguard Target Retirement 2050 Trust II

Allocation of underlying funds<sup>+</sup>

\*Fund holdings are subject to change Inst Ttl Intl Stk Idx Trust II Total Stock Market Index Plus 54.0% 36.5

Total Bond Market II Index Total Intl Bnd II 2.8 6.7

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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 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 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. 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 2055 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

Investment chiertive	1 2 3 4 5	Risk level
Ronchmark	\$7,691 MM	Total net assets
	0.075%	Expense ratio as of 03/31/21
	08/31/10	Inception date
	1489	Fund

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

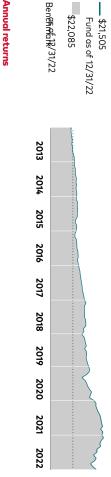
## Investment strategy

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 2055, the trust's become more conservative over time, meaning that the percentage of assets allocated to stocks will and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund. Bond II Index Fund, and Vanguard Short-Term 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 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

Vanguard to minimize foreign currency exposure). The trust's indirect stock holdings are a diversified government, U.S. agency, and investment-grade small-capitalization stocks 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 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

Target Retirement 2055 Composite Ix

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



### Annual returns



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Fund	24.34	7.26	-1.66	8.97	21.49	-7.85	25.07	16.41	16.59	-17.44
Benchmark	24.79	7.61	-1.25	9.13	21.55	-7.77	25.37	17.17	16.75	-17.07

### **Total returns**

Periods	
ended	
March 3	
31, 2023	

	Quarter	Year to date	One year	Three years	s Five years	Ten years
bur	6.65%	6.65%	-6.68%	14.23%	6.73%	8.31%
enchmark	6.58%	6.58%	-6.71%	14.51%	7.08%	8.59%
ne performance data shown represent past performance, which is not a quarantee of future results.	ta shown repi	resent past perfo	ormance, whic	h is not a guara	ntee of future I	esults.

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 ㅋ 8 2

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

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

Target Retirement 2055 Composite Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for emerging-market stocks, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through Iwne 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 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 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 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 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 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 Index Hedged beginning June 3, 2013; and the CRSP US Total Market Index thereafter. International Index Hedge 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 Index Hedge 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. I stock benchmark returns are adjusted for withholding taxes

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funds, the trust also is subject to asset allocation risk, which is the chance that the selection of underlying funds and the allocation of fund assets will cause the trust to underperform other funds with a similar investment objective. Investments in Target Retirement Trusts are subject to the risks of their underlying funds. The year in the trust name refers to the approximate year 2055 when an investor in the trust would retire and leave the workforce. The trust will gradually shift its emphasis from more aggressive investments to more The trust is subject to several stock and bond market risks, any of which could cause an investor to lose money. However, based on the trust's current allocation between stocks and the less volatile asset class of bonds, the trust's overall level of risk should be higher than those funds that invest mostly in bonds, but lower than those investing mostly in stocks. As Note on frequent trading restrictions 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

Plain talk about risk

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please call 855-402-2646.

## Allocation of underlying funds<sup>+</sup>

Balanced fund (stocks and bonds)

Vanguard Target Retirement 2055 Trust II

\*Fund holdings are subject to change. Inst Ttl Intl Stk Idx Trust II Total Stock Market Index Plus 54.1% 36.5

Total Intl Bnd II Total Bond Market II Index 6.6 2.8



## Vanguard Target Retirement 2060 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

1 2 3 4 5	Risk level
\$3,915 MM	Total net assets
0.075%	Expense ratio as of 03/31/21
03/01/12	Inception date
1693	Fund

## Investment objective

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

## Investment strategy

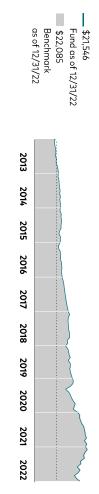
are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, to bonds and other fixed income investments will increase. Within seven years after 2060, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term 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

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 U.S. corporate bonds; inflation-protected public small-capitalization stocks. 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 mix of short-, intermediate-, and long-term U.S. The trust's indirect bond holdings are a diversified

### Benchmark

Target Retirement 2060 Composite Ix

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



### Annual returns



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Fund	24.32	7.22	-1.60	8.95	21.51	<b>-</b> 7.85	25.09	16.50	16.56	-17.41
Benchmark	24.79	7.61	-1.25	9.13	21.55	-7.77	25.37	17.17	16.75	-17.07

61

### **Total returns**

1 - 1 - 1

Periods e	
ended Mar	
-ch 31, 2023	

	Quarter	Year to date	One year	Three years	Five years	Ten years
und	6.67%	6.67%	<del>-</del> 6.65%	14.26%	6.75%	8.34%
enchmark	6.58%	6.58%	-6.71%	14.51%	7.08%	8.59%
he performance data shown represent past performance, which is not a guarantee of future results.	ıta shown repi	resent past perfo	rmance, whic	h is not a guara	ntee of future I	results.

井 暤 문 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 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 vanguard.com/performance. The performance of an index is not an exact representation of any particular

returns are net of expenses 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

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

## Vanguard Target Retirement 2060 Trust II

Balanced fund (stocks and bonds)

Allocation of underlying funds<sup>+</sup>



Total Intl Bnd II	Total Bond Market II Index
2.8	6.7

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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 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 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. 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 2065 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

Incontract objective	1 2 3 4 5	Risk level
	\$952 MM	Total net assets
	0.075%	Expense ratio as of 03/31/21
	07/17/17	Inception date
	1794	Fund

## Investment objective

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

## Investment strategy

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

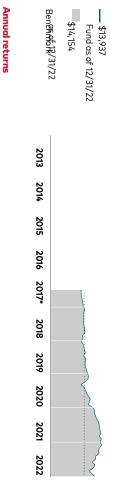
Vanguard to minimize foreign currency exposure). The trust's indirect stock holdings are a diversified government, U.S. agency, and investment-grade U.S. corporate bonds; inflation-protected public small-capitalization stocks mix of U.S. and foreign large-, mid-, and currencies other than the U.S. dollar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

> Ben Fun

### Denchmark

Target Retirement 2065 Composite Ix

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



	2013	2014	2015	2016	2017*	2018	2019	2020	2021	2022
Fund	I	I	I	I	12.40	-7.70	25.11	16.45	16.54	-17.40
Benchmark	I	I	I	Ι	8.54	-7.77	25.37	17.17	16.75	-17.07

63

### **Total returns**

					Periods end	Periods ended March 31, 2023
	Quarter	Quarter Year to date	One year	One year Three years Five years Since inception	Five years	Since inception
nd	6.67%	6.67%	-6.62%	14.26%	6.76%	8.01%
nchmark	6.58%	6.58%	-6.71%	14.51%	7.08%	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

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

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

\* 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

_	
Inst Ttl Intl Stk Idx Trust II	Total Stock Market Index Plus
36.5	54.2%
Total Intl Bnd II	Total Bond Market II Index
2.9	6.4

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## Plain talk about risk

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

## Note on frequent trading restrictions

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## Vanguard Target Retirement 2070 Trust II

Balanced fund (stocks and bonds)

#### Fund facts

1 2 3 4 5	Risk level Low └────────────────────────────────────
\$31 MM	Total net assets
0.075%	Expense ratio as of 04/07/22
04/07/22	Inception date
V006	Fund number

## Investment objective

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

## 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 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 Total Bond Market II Index Fund, Vanguard Institutional Total International Stock Market Index Trust II, Vanguard Total International Bond II Index Fund, and Vanguard Short-Term Inflation-Protected Securities Fund.

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

#### Benchmark

Target Retirement 2070 Composite Index

#### Total returns

			Periods ended March 31, 2023
	Quarter	Year to date	Since inception
ď	6.59%	6.59%	-5.40%
chmark	6.58%	6.58%	I
•	-	· · · ·	

Fund

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 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

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returns are net of expenses. 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

## Allocation of underlying funds

Inst Ttl Intl Stk Idx Trust II	Total Stock Market Index Plus 54.1%	
35.9	54.1%	
Total Intl Bnd II	Total Bond Market II Index	

7.0 3.0

Balanced fund (stocks and bonds)

Vanguard Target Retirement 2070 Trust II

# 0

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Note on frequent trading restrictions

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

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

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.

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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 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'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'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'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'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's allocation between trust's

**Plain talk about risk** 

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about a fund are contained in the prospectus; read and consider it carefully before investing.



# Vanguard Target Retirement Income Trust II

Balanced fund (stocks and bonds)

#### Fund facts

1 2 3 4 5	<b>Risk level</b> Low ← → High
\$4,417 MM	Total net assets
0.075%	Expense ratio as of 03/31/21
02/29/08	Inception date
1471	Fund

## Investment objective

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

### Investment strategy

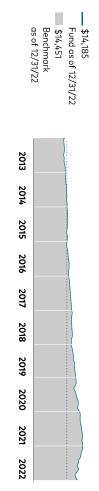
The trust invests in other Vanguard mutual funds and trusts according to an asset allocation strategy designed for investors currently in retirement. The underlying holdings are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, Vanguard Institutional Total International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

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

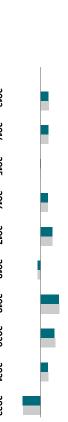
#### Benchmark

Target Retirement Income Compos. Ix

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



#### Annual returns



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Fund	5.82	5.68	<b>-</b> 0.13	5.25	8.60	-2.00	13.28	10.08	5.25	-12.73
Benchmark	6.03	5.76	0.13	5.35	8.68	-1.98	13.41	10.70	5.44	-12.44

#### **Total returns**

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riod
nded
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2023

	Quarter	Year to date	One year	Three years	s Five years	Ten years
nd	4.27%	4.27%	-4.47%	3.87%	3.31%	3.84%
enchmark	4.13%	4.13%	-4.45%	4.06%	3.53%	4.03%
re performance data shown represent past performance, which is not a guarantee of future results	ata shown rep	resent past perfc	ormance, whic	h is not a guara	ntee of future i	results.

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ᅻ 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. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or

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

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

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 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 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 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 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 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 thereefter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereefter; 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<sup>+</sup>

Ť				
<sup>+</sup> Fund holdings are subject to change.	STerm Inf Pro Sec Idx Fund	Total Stock Market Index Plus	Total Bond Market II Index	
	16.8	17.7	37.1%	
		Inst Ttl Intl Stk Idx	Total Intl Bnd II	

Inst Ttl Intl Stk Idx Trust II	Total Intl Bnd II
12.1	16.3

# Plain talk about risk Connect with Vanguard \* • vanguard.com

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

# Note on frequent trading restrictions

Frequent trading policies may apply to those funds offered as investment options within your plan. Please log on to vanguard.com for your employer plans or contact

Participant Services at 800-523-1188 for additional information.

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

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

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

If you receive your retirement plan statement from Vanguard or log on to Vanguard's website to view your plan, visit vanguard.com or call 800-523-1188

If you receive your retirement plan statement from a service provider other than Vanguard or log on to a recordkeeper's website that is not Vanguard to view your plan,

please call 855-402-2646.

Release date 04-30-2023

#### Market Index I (USD) Vanguard Total Bond

US Fund Intermediate

Total Bond Market

Performance 04-30-2023	-30-2023				
Quarterly Returns	1st Otr	2nd Otr	3rd Qtr	4th Qtr	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				3.74
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	-0.35	-3.14	1.21	1.30	4.31
Std 03-31-2023	-4.70		0.93	1.34	4.30
Total Return	-0.35	-3.14	1.21	1.30	4.31
+/- Std Index	0.08	0.01	0.03	-0.02	I
+/- Cat Index	0.08	0.01	0.03	-0.02	1
% Rank Cat	25	64	32	34	
No. in Cat	461	416	380	282	
		S	Subsidized	Unsi	Unsubsidized
7-day Yield					Ι
30-day SEC Yield 05-16-23	05-16-23		4.04		4.03

:	The Original Manufactor Design in terms of the state of t	30-day SEC Yield 05-16-23 4.04	
---	--	--------------------------------	--

The Overall Morningstar Rating is based on risk-adjusted return derived from a weighted average of the three-, five-, and 10-ye (if applicable) Morningstar metrics. The performance data quote trapesents past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus an investon

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

month-end, please call 888-809-8102 or visit www.vanguar quoted herein. For performance data current to the most rec Current performance may be lower or higher than return day Fees and Expenses

#### Sales Charges

Front-End Load % Deferred Load %

#### Management Fees % 12b1 Expense % **Gross Expense Ratio** % Net Expense Ratio % Fund Expenses

<b>Risk and Return Profile</b>			
	3 Yr	5 Yr	10 Yr
	416 funds	380 funds	282 funds
Morningstar Rating <sup>™</sup>	3 ★	4★	3¥
Morningstar Risk	Avg	Avg	Avg
Morningstar Return	Avg	+Avg	Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	6.24	5.50	4.44
Mean	-3.14	1.21	1.30
Sharpe Ratio	-0.69	-0.04	0.09
MPT Statistics	Standard Index	Bloor	Best Fit Index Bloomberg US Agg
Alpha	0		0 0/
Alpna	U.U4	U4	U.U4

Mean	-3.14	1.21	1.30
Sharpe Ratio	-0.69	-0.04	0.09
MPT Statistics	Standard Index	Best Fit Index Bloomberg US Agg Bond TR USD	Best Fit Index nberg US Agg Bond TR USD
Alpha	0.04		0.04
Beta	1.01		1.01
R-Squared	99.72		99.72
12-Month Yield			2.67%
Potential Cap Gains Exp		_	12.16%

Americas Greater Europe Greater Asia	xposure	NR NR		BBB	A	AAA AA	Credit Quality Breakdown 03-31-2023	MOT						ور من P/C Ratio TTM	Equity Style Portfolio Statistics	-	Not Clsfd	tocks	Asset Allocation % 03-31-2023 N Cash US Stocks	023	1165 1079 1038 1042	-0.11 -0.06 -0	-0.11 -0.06	11.09         10.56         10.87         10.64           4.18         -2.14         5.90         0.41	2012 2013 2014 2015						93 97 95 98	Wedalist Hating 100.00 Ge-30-2022 100.00
	Stocks %								ų.	on ui	ity		Cap —		1 Avg				Net % Long % 0.87 0.87 0.00 0.00		985 9			10.65 10.75 2.61 3.57	2016 20						98 97	
	Rel Std Index	0.00	0.00	13.96	11.99	/1.15 2.90	Bond %		91.79	0.30 2.92	6.5C		I		Hel Hel Index Cat				00 Short %		986 1019			10.75 10.45 3.57 -0.01	2017 2018						99	★★★ 416 US Fund Intermediate Core Bond
Π	t 🖸			Đ		Ð		Sec				Ð	Ð	•	Ð		Ð				430	0.01	0.01	11.05 8.73	2019						97	Bloom
Consumer	Defensive	Energy Industrials Technology	Communic	Real Estate	Financial Services	Consun	Cyclical Basic Materials	Sector Weightings	Ϊ,Ζ	. ,1	1,2 1,3	1,2	1,403 1,218	1,1 1,4	 ອີງອີງ	1,6	1,7;	1,9; 1,6;	ē	Top Holdings 03-31-2023	415	0.23	0.23	11.62 7.74	2020						99	Bloomberg US Agg Bond TR USD
Consumer Defensive	iogy	ials	i <b>ve</b> unicatio	tate	al Servi	Consumer Cyclical	a <b>l</b> Aaterial	htings	1,258 mil	1,130 mil	1,230 mil 1,326 mil	1,279 mil	1,403 IIII 1,218 mil	1,430 mil	1,536 mil 1,535 mil	1,658 mil	1,732 mil 1,470 mil	1,932 mil 1,623 mil	Amount	<b>gs</b> 03-3	423	-0.11	-0.11	-1.65	2021						97	Agg
ensive			Sensitive Communication Services		ces	lical	s		United a	United States	United S United S	United States	United S	United S	United States United States	United S	United States	United SUNITED	0 Total Stocks , 14,5 40% Turnover Ratio	1-2023 Holdings	453	-0.14	-0.14	9.48 -13.15	2022			Į			99	Bloc
			S						United States Treasury Notes 1.5%	States Treasury Notes 4.125%	United States Treasury Notes 1.5% United States Treasury Notes 1.625%	States Treasury Notes 2.875%	United States Treasury Notes 3.5%	United States Treasury Notes 2.75%		United States Treasury Notes 0.875%	United States Treasury Notes 1.3 United States Treasury Notes 2%	United States Treasury Notes 0.75% United States Treasury Notes 4.125%	0 Total Stocks , 14,566 Total Fixed-Income 40% Turnover Ratio		476	0.15	0.15	9.74 3.74				101		60k	99	Bloomberg US Agg Bond TR USD
	1							Stocks %	y Note	y Note	y Note y Note	y Notes	y Notes	y Notes	Treasury Notes 1.25% Treasury Notes 1.875%	y Notes	Treasury Notes 1.375% Treasury Notes 2%	y Notes y Notes	al Fixed-Inc		No. of Funds in Cat	+/- Category Index	+/- Standard Index	NAV/Price Total Return %	History	Performance Quartile (within category)	11,991	12,115 Standard Index	Index I 11,957	Growth of \$10,000 Vanguard Total Bon	Investment Style Fixed-Income Bond %	ig US Fund Interme Core Bond

Net Assets %

0.60 0.58

0.47

69

0.48

0.47

©2023 Morningstar. All opinions contained here Morningstar. (3) may no and (6) are not warrante including, but not limite including, but not limite or accompanied by a pro	Tenure: Objective:
Highs Reserved, Unless otherwise provident in thirclude the confidential and propriet as the conject or redistributed, (4) do not con- ed to be context, complete or accurate. Ex- ses or ophions or their use. Ophions sept to to, Morningstar Research Services LLC, ospectus, or equivalent, and disclosure stations ospectus.	10.3 Years Income
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only in the country in which its original derived from, account information are provided solely for information are provided solely for informationation to the esponsible for any trading dramet run and white ange white unit of the steport.	US9219375048 \$5 mil
riad distributor is based. The information, data, provided by your financial professional which of purposes and therefore are not an offer to but existions, damages or other losses resulting from search is produced and issued by subsidiaries rt is supplemental sales interature. If applicable rt is supplemental sales interature.	Type: Total Assets:
, analyses and samot be verified by y or self a security, n, or related to, this of Morningstar, Inc. e It must be preceded	MF \$92,420.38 mil

Tenure: Manager: Family: Operations

Joshua Barrickman 10.3 Years Vanguard

ISIN: Ticker:

Base Currency:

VBTIX USD

Incept:

09-18-1995 ₹

Purchase Constraints:

this ceded **MORNINGSTAR**®

0.42

0.42

Rel Std Index

11

0.38

0.41 0.40 0.39 0.38

on the financial strength and claims-paying ability of VRIAC, which is solely an obligation of VRIAC's general contracts 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

# Voya Retirement Insurance and

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

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 money interest rates. 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

#### 457/401 II will be subject to the equity Restrictions on Transfers from the Voya Fixed Account – 457/401 II Transfers from the Voya Fixed Account –

# Equity Wash Restrictions on

wash restrictions shown below

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

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

# **Competing Investment Option**

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

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

(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

#### Withdrawals from the Voya Fixed 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 – 457/401 II in one of the following two 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

exceed 60 months; or with interest, over a period not to In equal annual principal payments

(a)

<u></u> 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

# Interest Rate Structure

guarantees principal and a guaranteed minimum interest rate ("GMIR") for the credited rate guaranteed minimum floor rate and the 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 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

CN1722706\_0723

not be available in all states.

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 LLC (member SIPC) or other brokerdistributed 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 period.

Fixed Account – 457/401 II may be in effect for less than a full three-month

was effective. The current rate for a month period measured from the first day of the month in which such change

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

plan's initial investment in the Voya

to be credited under a contract may be higher than the GMIR/guaranteed

rate equals the GMIR. The current rate Currently, the guaranteed minimum floor option and promising a minimum interest rate during the accumulation period and

the principal amount you allocate to this investment gain or loss by guaranteeing

period, if applicable.

also throughout the annuity payout

any capital gains and/or losses realized on the sale of invested assets. Under this option, VRIAC assumes the risk of

invested assets and the amortization of the investment income earned on factors, which may include mortality and expense risks, interest rate guarantees,

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

Any insurance products, annuities and

1.00%

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

# 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

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 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 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

BSTAR ®	MORNIN	ed by rity, , lnc. , ceded	ata, analyses and th cannot be verific buy or sell a secur rom, or related to, es of Morningstar, able it must be pres	The information, da I professional which are not an offer to r losses resulting for ssued by subsidiari iterature. If applica	riginal distributor is based. 1 on provided by your financial nal purposes and therefore decisions, damages or other t research is produced and is port is supplemental sales if	untry in which its or account informatic olely for informatic ible for any trading notice. Investment commission. This re	t only in the cou e derived from, are provided s not be responsi hange without and Exchange C and Exchange C	ruse this report ay include, or b Morningstar, (5) rningstar shall 1 are subject to d J.S. Securities a ures at the end	reement, you may lorningstar, (2) mi dvice offered by h uired by law, Mo Jate written and a yoverned by the L mportant disclosu	ided in a separate agr stary information of M stitute investment ac sypt as otherwise req ressed are as of the d registered with and g atement. Please see in	©222 Morningstar. All Rights Reserved. Unless otherwise provided in a separate agreement, you may use this report only in the country in which its original distributor is based. The information, data, analyses and opinions contained here in (1) include the confidential and proprietary information of Morningstar. (2) may include, or be derived from, account information provided by your financial professional which cannot be verified by Morningstar. (3) may not be copied or redistributed, if do not constitute investment advice offered by Morningstar. (5) are provided solely for information durages and therefore are not an offer to by or sell a security, and (6) are not warranted to be copied or redistributed. (14) on or construite investment advice offered by Morningstar. (5) are provided solely for informational purposes and therefore are not an offer to by or sell a security, and (6) are not warranted to be copieds or options or their use. Options expressed are as of the date written and are subject to change without notice. Investment research is produced and issued by substitiaries of Morningstar. (Including, but not limited to. Morningstar Research Sortees LL): registered with and governed by the U.S. Securities and Exchange Commission. This report is supplemental sales literature. If applicable it must be preceded or exchange that and disclosure statement. Please see important disclosures are the of this report.
NA	0.07	0.07	NA	NA	11.93 09-27-2011	10.55	9.28	-11.75	I		Vanguard Mid-Cap Growth Index Admiral
NA	0.02	0.02	NA	NA	8.05 07-07-1997	12.23	11.18	-7.75			Vanguard Institutional Index Instl PI
NA	0.04	0.04	NA	NA	9.25 01-14-2011	8.94	6.06	-14.13	I	I	Vanguard Extended Market Index InstIPlus
NA	0.53	0.53	NA	NA	10.21 08-28-2015		7.48	-18.06			T. Rowe Price Growth Stock I
NA	0.48	$0.35^{2}$	NA	NA	1.25 02-01-2018		1.36	-4.68			Sterling Capital Total Return Bond R6
NA	0.56	0.551	NA	NA	8.24 04-01-2005	9.75	7.87	-3.78			MFS Value R4
NA	0.46	0.46	NA	NA	7.84 05-01-2009	5.99	3.25	-3.26			American Funds Europacific Growth R6
Max mption %	Gross Exp Ratio % Redemption 9	Net Exp Ratio %	Nax Back Load %	Inception Max Front Max Back Date Load % Load %	Since Inception <b>M</b> Inception Date	10Yr Ince	5Yr	1Yr	7-day Yield Jnsubsidized <i>as of date</i>	7-day Yield 7-day Yield Subsidized Unsubsidized as of date as of date	Standardized Returns (%)
											Annualized returns 03-31-2023

		les of Shares	On Distribution and Sales of	On Distri							On Distribution	Return after Tax (%)
												1. Contractual waiver; Expires 12-31-2023 2. Contractual waiver; Expires 01-31-2024
					02-28-1941	Ι	0.94	1.51	3.28			<b>USTREAS T-Bill Auction Ave 3 Mon</b>
					01-30-1970	I	12.24	11.19	-7.73			S&P 500 TR USD
					12-31-1985		8.80	6.54	-9.22			Russell Mid Cap Value TR USD
					02-01-1995		11.17	9.07 8.05	-8.52			Russell Mid Cap Growth TR USD
		-		-	01-01-1987	I	9.13	7.50	-5.91		-	Russell 1000 Value TR USD
					12-31-1978	I	12.01	10.87	-8.39			Russell 1000 TR USD
					01-01-1987	Ι	14.59	13.66	-10.90			Russell 1000 Growth TR USD
					03-31-1986	I	5.00	3.52	-1.38			MSCI EAFE NR USD
					01-01-2001	I	4.17	2.47	-5.07			MSCI ACWI EX USA NR USD
					01-01-2001		5.08	3.36	-6.35			MSCI ACWI Ex USA Growth NR USD
					12-21-2020	I	I	I	-11.02			Morningstar US Sml Brd Grt Ext TR USD
					12-21-2020	I		Ι	-7.66			Morningstar US Mid Brd Val TR USD
					12-21-2020	Ι	I		-9.64			Morningstar US Mid Brd Grt TR USD
					12-21-2020	I		I	-4.32			Morningstar US LM Brd Val TR USD
					12-21-2020	I	I	Ι	-14.03			Morningstar US LM Brd Growth TR USD
					05-01-2019	Ι	Ι	Ι	-4.73			Morningstar US Core Bd TR USD
					11-24-2021	I	Ι	Ι	-6.04			Morningstar Gbl xUS Growth TME NR USD
					12-31-1998		1.62	1.05	-4.61			Bloomberg US Universal TR USD
					01-03-1980	1	1.36	0.91	-4.78			Bloomberg US Agg Bond TR USD
0.04 NA	0.	0.04	NA	NA	4.30 09-18-1995	4.30	1.34	0.93	-4.70			Vanguard Total Bond Market Index I
	0.07	0.07	NA	NA	09-27-2011	11.72	9.46	6.61	-8.26			Vanguard Mid-Cap Value Index Admiral
Gross Exp Max Ratio % Redemption %		Net Exp Ratio %	Max Back Load %	Inception Max Front Max Back Date Load % Load %		Since Inception	10Yr	5Yr	1Yr	7-day Yield Jnsubsidized <i>as of date</i>	7-day Yield 7-day Yield Subsidized Unsubsidized as of date as of date	Standardized Returns (%)
												Annualized returns 03-31-2023

Return after Tax (%)	On Distribution					On Distribution and Sales of	n and Sales of Shares		
	1Yr	5Yr	10Yr	Since Inception	Inception Date	1Yr	5Yr	10Yr	Since Inception
American Funds Europacific Growth R6	-3.95	2.11	5.02	6.96	05-01-2009	-1.89	2.40	4.61	6.29
MFS Value R4	-5.76	6.48	8.23	6.96	04-01-2005	-1.37	5.75	7.36	6.36
Sterling Capital Total Return Bond R6	-5.84	0.02	I	-0.08	02-01-2018	-2.78	0.52	I	0.44
T. Rowe Price Growth Stock I	-18.70	5.99		8.44	08-28-2015	-10.32	5.74		7.92
Vanguard Extended Market Index InstlPlus	-14.43	5.67	8.47	8.82	01-14-2011	-8.20	4.66	7.15	7.15 7.55
Vanguard Institutional Index Instl PI	-8.45	10.24	11.40	7.45	07-07-1997	-4.17	8.78	9.98	6.76
Vanguard Mid-Cap Growth Index Admiral	-11.93	9.08	10.30	11.69	09-27-2011	-6.86	7.31	8.64	9.98
Vanguard Mid-Cap Value Index Admiral	-8.80	5.99	8.81	11.04	09-27-2011	-4.58	5.07	7.57	9.63
Vanguard Total Bond Market Index I	-5.71	-0.09	0.26	2.63	09-18-1995	-2.79	0.31	0.57	2.67

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# 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 expenses 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.

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

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

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

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

A unit investment trust (UIT) is an investment company organized under a trust agreement between a sponsor and trustee. UITs typically purchase a fixed portfolio of securities and then sell units in the trust to investors. The major difference between a UIT and a mutual fund is that a mutual fund is actively managed, while a UIT is not. On a periodic basis, UITs usually distribute to the unit holder their pro rata share of the trust'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 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

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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 Morningstar Medalist Rating<sup>TM</sup> 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, Head of Manager and Quantitative Research is responsible for overseeing the methodology that supports the Quantitatively-Driven Content. As an employee of Morningstar Research Service LLC, Mr. Davidson is guided by the Morningstar Research Service Code of Ethics and Investment Research Integrity Policy in carrying out his responsibilities. Morningstar's Manager Research Group consists of 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, manager research employees are employed by Morningstar Research Services LLC, 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 55% 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 the security's price rises over time. Short positions are taken 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.

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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, Momingstar 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 sales charges, 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.

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

## Management Fees %

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

# Maximum Redemption Fee %

The Maximum Redemption Fee is the maximum amount a fund may charge 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

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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 Morningstar 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 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<sup>™</sup>

The Morningstar Rating<sup>TM</sup> 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 <u>global.morningstar.com/managerdisclosures</u>

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.

Momingstar 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

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

Morningstar uses the credit rating information to calculate a weighted-average credit quality value for the portfolio. This value is based only upon those holdings which are considered to be classified as "fixed\_income", such as government, corporate, or securitized issues. Other types of holdings such as equities and many, though not all, types of derivatives are excluded. The weighted-average credit quality value is represented by a rating symbol which corresponds to the long-term rating symbol schemas employed by most CRA's. Note that this value is not explicitly published but instead serves an an input in Style Box calculation. This symbol is then used to map to a Style Box credit quality category of "low," "medium," or "high". Funds with a "low" credit quality category are those 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".

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

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 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.

#### R-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

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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.

<u>Non-Diversified Strategies:</u> 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.

<u>High-Yield Bonds</u>: 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.

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

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

<u>Hedge Funds:</u> 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

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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.

<u>Leveraged ETFs:</u> 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.

 $\frac{\text{Liquidity Risk:}}{\text{market conditions, impacting an investor's ability to sell a fund.}$ 

<u>Market Price Risk</u>: 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.

<u>Target-Date Funds:</u> 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 not guaranteed at any time, including at the fund's target date.

High double- and triple-digit returns: 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 or Bloomberg's licensors own all proprietary rights in the Bloomberg Indices. 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**

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

# Morningstar Gbl 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 USDdenominated securities with maturities greater than one year. It is marketcapitalization weighted. This Index does not incorporate Environmental, Social, or Governance (ESG) criteria.

# Morningstar US LM Brd Growth TR USD

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

# **Morningstar US LM Brd Val TR USD**

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

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

#### S&P 500 TR USD

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

# **USTREAS T-Bill Auction Ave 3 Mon**

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

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PLEASE CONTACT YOUR HYAS GROUP CONSULTANT FOR A COPY OF A FUND'S PROSPECTUS.

PLEASE READ THE PROSPECTUS AND CONSIDER THE FUND'S INVESTMENT OBJECTIVES, RISKS, CHARGES AND EXPENSES CAREFULLY BEFORE INVESTING. THE PROSPECTUS CONTAINS THIS AND OTHER IMPORTANT INFORMATION ABOUT THE FUND.

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

To learn more about the Hyas Group advisory services, please see the Hyas Group ADV Brochure for more information. It is available from your Hyas Group Consultant.

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

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

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

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

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

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

Fund data provided by Morningstar.

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

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

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

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

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

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