

# 457(b) Deferred Compensation and OBRA Plans

December 31, 2023 Performance Report

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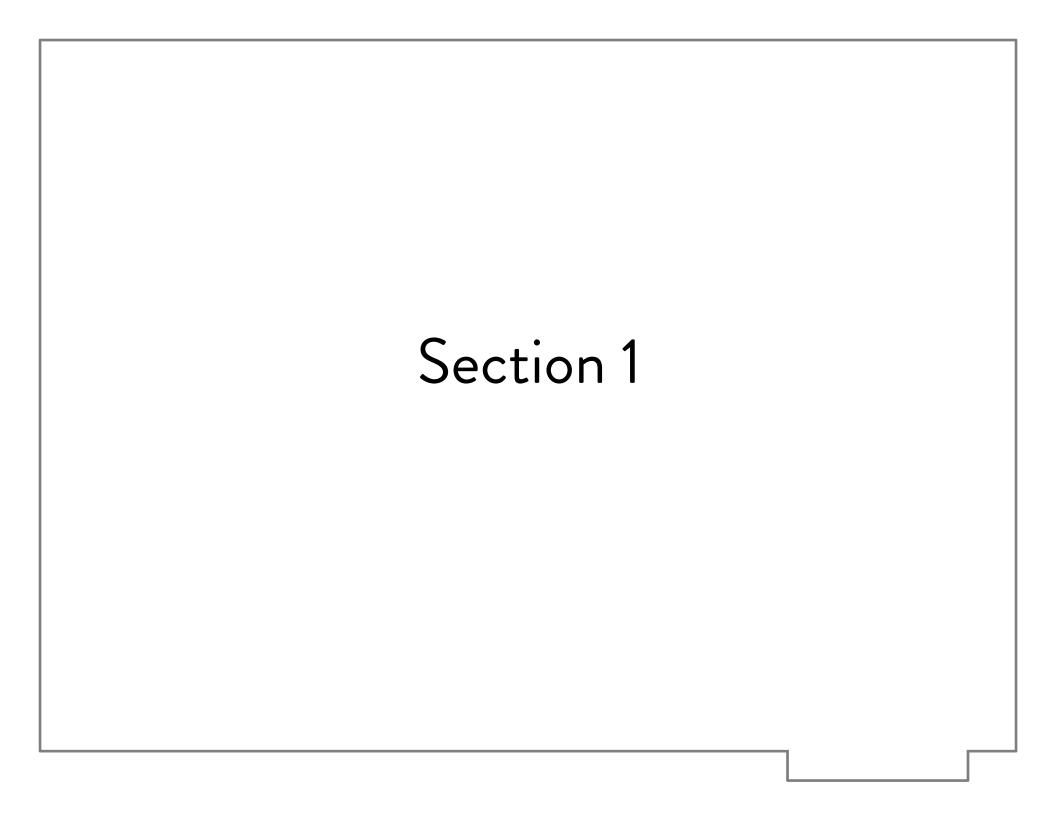
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# FOURTH QUARTER 2023 MARKETS AND ECONOMIC UPDATE

#### **GLOBAL ECONOMIC LANDSCAPE**

- Minutes from the Federal Reserve Open Market Committee's (FOMC) December meeting gave pause to the growing expectation that interest rate reductions may be coming soon. These minutes noted the general consensus among the committee that rates are at or near their peak for this tightening cycle and acknowledged that projections show cuts by the end of 2024. However, committee members also see policy potentially remaining restrictive for some time and "several also observed that circumstances might warrant keeping the target range at its current value for longer than they currently anticipated."
- Year-end payroll readings for the US came in above expectations, pointing to a labor market that showed some re-acceleration from November. Upside in payrolls reflected continued strength in government and healthcare hiring and warmer weather supporting construction jobs, offsetting a decline in transportation and warehousing employment. Average wages also increased at a healthy pace, albeit being offset in part by a reduction in hours worked. While there was some mixture in underlying data, the aggregation indicates a still-tight labor market which may support the Federal Reserve's inclination to keep short-term interest rates higher for longer.<sup>2</sup>
- In contrast to the more restrictive monetary approaches of the US and Europe, the Bank of Japan has maintained an expansionary, negative interest rate policy. While expectations continue to be for the Bank of Japan to eventually abandon this stance, near-term developments such as recent guidance by governors towards an increasingly gradual approach, the earthquake on Noto Peninsula, and turnover within the Prime Minister's cabinet appear to argue against a brisk pace of doing so.<sup>3</sup>
- Continuing on the theme of latent changes in central bank direction, markets and policy makers in the European Union and United Kingdom (UK) appear to be waiting for inflation to cool enough to warrant a reduction in monetary restraint. Within the European Union, year-end inflation did not show as strong a decline as in months prior, which, when combined with upward wage pressure, may imply that more time is needed before rate reductions can occur. Within the UK, year-end economic growth, Christmas consumer spending, and manufacturing activity surprising to the upside likewise supported the notion of a pushback in the timing of direction-change.<sup>4</sup>

#### FIXED INCOME MARKETS<sup>5</sup>

• Although yields ended 2023 virtually unchanged from the start, Treasuries experienced a long selloff (May to October), sandwiched between two rallies (March to May and October to December). Drivers of 2023's rate volatility included regional banking stress in March to May; much stronger macroeconomic growth, slower progress on inflation, and fiscal sustainability questions from May to October; and then softening data and an apparent Fed pivot into year-end. From a closing low of 3.34% on May 3 to a closing high of 4.99% on October 19, the US 10-year Treasury yield embedded higher real yields and term premiums on robust growth and an

<sup>&</sup>lt;sup>1</sup> Source: Morgan Stanley, FOMC Minutes: Not Cutting Soon, January 3, 2024.

<sup>&</sup>lt;sup>2</sup> Source: Morgan Stanley, December Employment – Tight Labor Market, January 5, 2024.

<sup>&</sup>lt;sup>3</sup> Source: Morgan Stanley, Expecting Status Quo and January MPM, January 3, 2024.

<sup>&</sup>lt;sup>4</sup> Source: Morgan Stanley, New Year, Same Old Questions, January 5, 2024.

<sup>&</sup>lt;sup>5</sup> Source: Morgan Stanley, Fixed Income Insights, January 3, 2024.

elevated Treasury supply. From late October, however, yields closely tracked the Citi Economic Surprise Index, as higher-for-longer rate expectations gave way to consensus view of multiple Fed cuts in 2024.

- Agency Mortgage-Backed Securities (MBS) sharply underperformed through October, buffeted by elevated rate volatility and challenging technical dynamics. As a result, agency MBS spreads reached extremely wide levels compared to their longer-term history. In line with other fixed income asset classes, November and December's rally allowed agency MBS to recover their previous underperformance and close the year on a higher note as spreads tightened to more normal levels.
- High yield debt benefited from its shorter duration and higher coupons—and support from stronger-than-expected economic growth and technical supply-demand tailwinds. Most notably, after the December FOMC meeting, high yield bond spreads and yields declined sharply, based on the dovish guidance. Fund flows turned positive in November and December, with over \$15 billion of inflows. All said, high yield bonds returned 13.4% for the year, with CCC-rated bonds (+19.8%) outperforming higher-quality B- (+13.8%) and BB-rated (+11.6%) cohorts.
- International investment-grade bonds returned 8.3% in 2023, outperforming their US counterparts. European bonds led the charge with strong returns from major Eurozone countries across both credit and government debt. Most of the gains came from a strong rally that began in late October, as investors started pricing in more robust monetary easing from the European Central Bank. Yields on German and French 10-year government bonds for example each fell by roughly 1% towards year-end.

### **EQUITY MARKETS**

- 2024 marks the third straight year with the S&P 500 starting trailing price-to-earnings ratio above 20. When the market has begun at these points, subsequent 12-month returns have averaged just under 4%—materially below the long-run average of 7-8%. While earnings could surprise to the upside, the corresponding drop in multiples imply, judging by historical patterns, that corresponding gains on US stock indexes may only rival those available in other asset classes, such as non-US stocks, select fixed income, and alternatives.
- After outperforming the S&P 500 by 131% between the start of 2021 and end of 2022, the energy sector lagged the broader market by 29% in 2023. That weakness came alongside rising economic uncertainty and softness in oil and gas prices, which has triggered a cycle of negative estimate revisions for companies in the sector. Even so, amid a more uncertain macro backdrop, the company-specific features have shown clear improvement. The energy sector's capital allocation framework has structurally changed from an emphasis on production growth to returns, free cash flow, and shareholder distributions. As a result, even if commodity prices are flat in 2024, it is estimated that cash flow and profit margins could expand in the quarters to come.<sup>7</sup>
- Though challenged (from a US investor's perspective) by currency headwinds, Japanese equities entered 2024 with several potential tailwinds. These include efforts by the Tokyo Stock Exchange to have its members better disclose efforts to improve returns on capital, a doubling in the maximum that individual Japanese investors can invest in local equities on a tax-free basis, high bank deposits which can serve as dry-powder to equity demand, and potential abatement of the Yen's relative weakness versus European and US currencies from central bank easing.<sup>8</sup>
- Developments over the course of 2023 indicated a pause in internal and external investor sentiment towards China. For example, according to China's State Administration of Foreign Exchange, last year, China recorded its first foreign direct investment (FDI) deficit since 1998 when the data began to be collected. Additionally, deposits in Chinese banks rose sharply in 2023, implying reduced consumer spending on the back of a disappointing recovery, high youth unemployment, and declining property values; all of which may portend to challenges in generating compelling corporate earnings growth.<sup>9</sup>

<sup>&</sup>lt;sup>6</sup> Source: Morgan Stanley, "2024 Outlook: Starting Points Matter", January 8, 2024

<sup>&</sup>lt;sup>7</sup> Source: Morgan Stanley, "2024 Outlook: Cash Comes Cheap", December 11, 2023.

<sup>&</sup>lt;sup>8</sup> Source: Morgan Stanley, "Keep It Simple—Add Japan and Avoid China", January 10, 2024

<sup>9</sup> Source: ibid

#### **ALTERNATIVE INVESTMENTS**

- Artificial Intelligence (Al) private companies raised \$25 billion in 2023 a bright spot in an otherwise lackluster venture capital funding environment. Excluding Al and machine learning, venture capital hit a five-year low in 2023. Big tech has been a primary investor within this space, with corporate venture arms accounting for 90% of the applicable capital raised in 2023, up from about 40% on average over the past three years. In addition to investments, deep relationships appear to be forming between corporations and Al private companies, with three of the largest US public technology companies combining for over 20 partnerships.<sup>10</sup>
- US buyout and growth equity deals continued to slow into the second half of 2023, with deal value exhibiting an 18% decline between the second and third quarter and falling below \$200 billion for the first time in three years. While dry powder levels may still be significant, tighter lending conditions have forced buyers to use less debt to make financing deals more feasible, causing a greater portion of transactions to be financed via equity.<sup>11</sup>
- After lagging for each month since February, Real Estate Investment Trusts (REITs) ended the year on a positive note, leading the S&P 500 by 1.3% and 5.3% in November and December respectively. After multiple quarters of economic headwinds and outflows, recent analysis on REITs suggests potential room for continued strength, due to aspects such as increasing demand for rate-sensitive equities, achievable consensus growth rates, and valuations versus stocks remaining at a discount to longer-term averages.<sup>12</sup>

<sup>&</sup>lt;sup>10</sup> Source: Morgan Stanley, "GenAl Privates: Where Are We Now and 12 Debates From Here", December 20, 2023.

<sup>&</sup>lt;sup>11</sup> Source: Morgan Stanley, "Alternatives Quarterly, November 30, 2023.

<sup>&</sup>lt;sup>12</sup> Source: Morgan Stanley, "The REIT Cheat Sheet", January 2, 2024.

#### Disclosure:

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In addition to the general risks associated with real estate investments, REIT investing entails other risks such as credit and interest rate risk. Real estate investment risks can include fluctuations in the value of underlying properties; defaults by borrowers or tenants; market saturation; changes in general and local economic conditions; decreases in market rates for rents; increases in competition, property taxes, capital expenditures, or operating expenses; and other economic, political or regulatory occurrences affecting the real estate industry. Investing in commodities entails significant risks. The commodities markets may fluctuate widely based on a variety of factors including changes in supply and demand relationships; governmental programs and policies; national and international political and economic events; war and terrorist events; changes in interest and exchange rates; trading activities in commodities and related contracts; pestilence; weather; technological change; and, the price volatility of a commodity. In addition, the commodities markets are subject to temporary distortions or other disruptions due to various factors, including lack of liquidity, participation of speculators and government intervention.

For further information please contact Tom Breaden (tbreaden@hyasgroup.com).

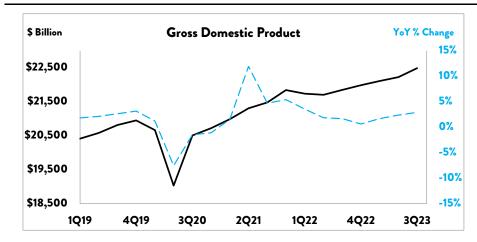
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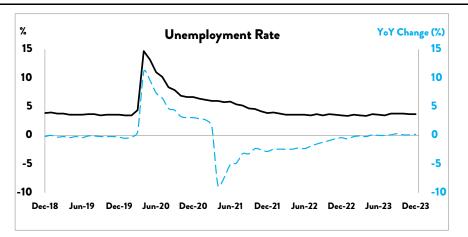
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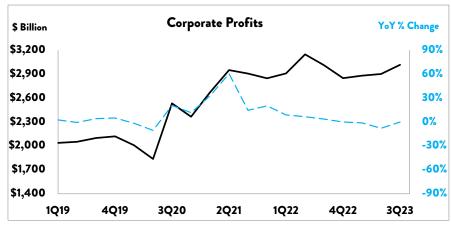
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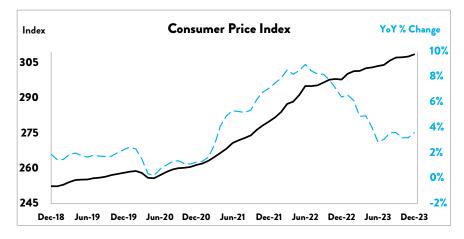
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### 4Q2023 Economic Data









Key:	 Economic	Series

--- Year-Over-Year Change

Labor Market Statistics (Monthly)									
Category	Recent	5-Yr High	5-Yr Low	5-Yr Avg.	Date				
Jobs Added/Lost Monthly	216,000	4,505,000	-20,493,000	114,517	Dec-23				
Unemployment Rate	3.7%	14.7%	3.4%	4.9%	Dec-23				
Median Unemployment Length (Weeks)	9.0	22.2	4.0	11.1	Dec-23				
Average Hourly Earnings	\$34.27	\$34.27	\$27.60	\$30.76	Dec-23				

Other Prices and Indexes (Monthly)								
Category	Recent	5-Yr High	5-Yr Low	% Off Peak	Date			
Gas: Price per Gallon	\$3.10	\$4.84	\$1.80	-35.8%	Dec-23			
Spot Oil	\$71.90	\$114.84	\$16.55	-37.4%	Dec-23			
Case-Shiller Home Price Index	320.3	320.3	213.8	49.8%*	Oct-23			
Medical Care CPI	556.1	557.4	489.9	13.5%*	Dec-23			

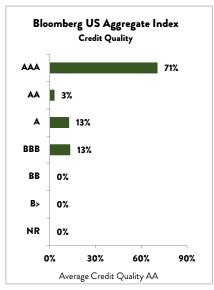
Source: Federal Reserve Bank of St. Louis and Bureau of Labor Statistics

\*% Off Low Morningstar data as of 12/31/2023

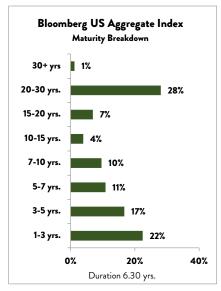
# 4Q2023 Bond Market Data

Index	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
90-Day T-Bill	1.36%	5.27%	5.27%	2.44%	1.95%	1.31%
Bloomberg US Aggregate	6.82%	5.53%	5.53%	-3.31%	1.10%	1.81%
Bloomberg Short US Treasury	1.46%	5.09%	5.09%	2.01%	1.89%	1.28%
Bloomberg Int. US Treasury	3.99%	4.28%	4.28%	-1.86%	1.02%	1.25%
Bloomberg Long US Treasury	12.70%	3.06%	3.06%	-11.41%	-1.24%	2.28%
Bloomberg US TIPS	4.71%	3.90%	3.90%	-1.00%	3.15%	2.42%
Bloomberg US Credit	8.15%	8.18%	8.18%	-3.21%	2.45%	2.83%
Bloomberg US Mortgage-Backed	7.48%	5.05%	5.05%	-2.86%	0.25%	1.38%
Bloomberg US Asset-Backed	3.48%	5.54%	5.54%	0.22%	1.92%	1.81%
Bloomberg US 20-Yr Municipal	10.13%	7.78%	7.78%	-0.56%	2.68%	3.88%
Bloomberg US High Yield	7.16%	13.45%	13.45%	1.98%	5.37%	4.60%
Bloomberg Global	8.10%	5.72%	5.72%	-5.51%	-0.32%	0.38%
Bloomberg International	9.21%	5.72%	5.72%	-7.21%	-1.56%	-0.79%
Bloomberg Emerging Market	8.10%	9.09%	9.09%	-3.13%	1.84%	3.03%

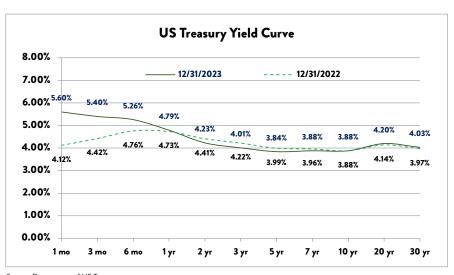
Source: Morningstar



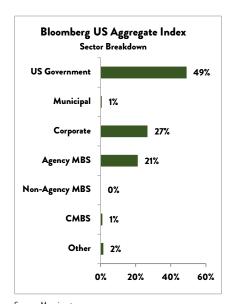
Source: Morningstar



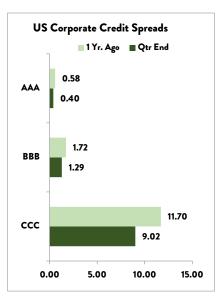
Source: Morningstar



Source: Department of US Treasury



Source: Morningstar



Source: Federal Reserve / Bank of America

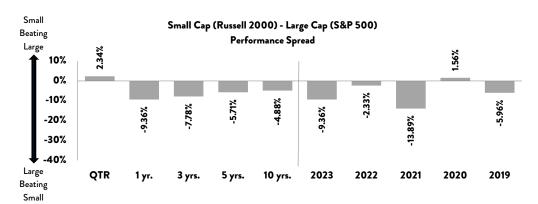
# 4Q2023 US Equity Market Data

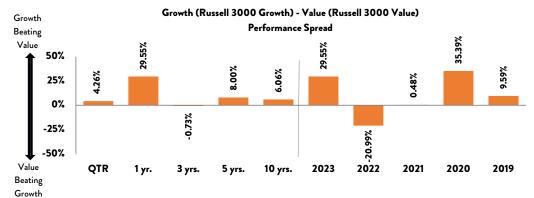
Se	ctors Weig	<b>hts/Returns</b> (ranked by quar	ter performanc	ce)	
	Wgt.	Sector	QTR	YTD	1 yr.
	3%	Real Estate	18.83%	12.36%	12.36%
	29%	Information Technology	17.17%	57.84%	57.84%
	13%	Financials	14.03%	12.15%	12.15%
dex	9%	Industrials	13.05%	18.13%	18.13%
S&P 500 Index	11%	Consumer Discretionary	12.42%	42.41%	42.41%
50	9%	Communication Services	10.95%	55.80%	55.80%
88	2%	Materials	9.69%	12.55%	12.55%
•	2%	Utilities	8.56%	-7.08%	-7.08%
	13%	Health Care	6.41%	2.06%	2.06%
	6%	Consumer Staples	5.54%	0.52%	0.52%
	4%	Energy	-6.94%	-1.33%	-1.33%
	Wgt.	Sector	QTR	YTD	1 yr.
	16%	Consumer Discretionary	17.31%	24.28%	24.28%
×	8%	Real Estate	15.46%	8.61%	8.61%
nde	16%	Financials	14.96%	8.19%	8.19%
0	7%	Materials	14.79%	16.53%	16.53%
S&P Midcap 400 Index	21%	Industrials	12.37%	31.43%	31.43%
dca	10%	Information Technology	10.30%	28.69%	28.69%
Ž	2%	Communication Services	10.13%	-7.49%	-7.49%
S 8	3%	Utilities	7.79%	-13.21%	-13.21%
	4%	Consumer Staples	6.70%	15.70%	15.70%
	8%	Health Care	5.37%	0.52%	0.52%
	5%	Energy	-4.71%	7.44%	7.44%
	Wgt.	Sector	QTR	YTD	1 yr.
	15%	Consumer Discretionary	22.57%	32.67%	32.67%
ě	19%	Financials	20.25%	5.19%	5.19%
S&P Smallcap 600 Index	17%	Industrials	16.83%	31.84%	31.84%
000	8%	Real Estate	16.75%	7.40%	7.40%
ap 6	6%	Materials	15.31%	19.98%	19.98%
allc	10%	Health Care	14.09%	-2.38%	-2.38%
S	3%	Communication Services	11.28%	13.88%	13.88%
88 P	4%	Consumer Staples	10.83%	14.99%	14.99%
	12%	Information Technology	10.24%	20.95%	20.95%
	2%	Utilities	9.33%	-7.57%	-7.57%
	4%	Energy	-8.13%	5.02%	5.02%

Source: Morningstar

#### Index Performance Data

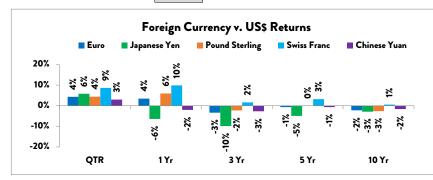
					Annualized	
Index	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
S&P 500	11.69%	26.29%	26.29%	10.00%	15.69%	12.03%
Russell 1000 Value	9.50%	11.46%	11.46%	8.86%	10.91%	8.40%
Russell 1000 Growth	14.16%	42.68%	42.68%	8.86%	19.50%	14.86%
Russell Mid Cap	12.82%	17.23%	17.23%	5.92%	12.68%	9.42%
Russell Mid Cap Value	12.11%	12.71%	12.71%	8.36%	11.16%	8.26%
Russell Mid Cap Growth	14.55%	25.87%	25.87%	1.31%	13.81%	10.57%
Russell 2000	14.03%	16.93%	16.93%	2.22%	9.97%	7.16%
Russell 2000 Value	15.26%	14.65%	14.65%	7.94%	10.00%	6.76%
Russell 2000 Growth	12.75%	18.66%	18.66%	-3.50%	9.22%	7.16%
Russell 3000	12.07%	25.96%	25.96%	8.54%	15.16%	11.48%
DJ US Select REIT	16.35%	13.96%	13.96%	7.18%	6.12%	7.00%





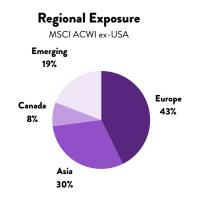
# 4Q2023 International Market Data

Index Performance Data (net)						
Index (US\$)	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
MSCI ACWI ex-US	9.75%	15.62%	15.62%	1.55%	7.08%	3.83%
MSCI EAFE	10.42%	18.24%	18.24%	4.02%	8.16%	4.28%
Europe	11.05%	19.89%	19.89%	5.80%	9.09%	4.13%
United Kingdom	6.86%	14.09%	14.09%	8.76%	6.87%	2.49%
Germany	13.04%	22.98%	22.98%	0.20%	6.27%	1.99%
France	10.31%	21.40%	21.40%	7.94%	10.47%	5.72%
Pacific	9.25%	15.27%	15.27%	0.95%	6.55%	4.62%
Japan	8.19%	20.32%	20.32%	0.66%	6.91%	4.97%
Hong Kong	3.42%	-14.77%	-14.77%	-7.93%	-1.84%	2.03%
Australia	15.23%	14.79%	14.79%	5.97%	9.72%	4.99%
Canada	11.23%	15.44%	15.44%	8.21%	11.22%	4.60%
MSCI EM	7.86%	9.83%	9.83%	-5.08%	3.69%	2.66%
MSCI EM Latin America	17.55%	32.71%	32.71%	9.93%	6.11%	2.11%
MSCI EM Asia	6.71%	7.76%	7.76%	-6.90%	4.32%	4.13%
MSCI EM Eur/Mid East	6.91%	10.63%	10.63%	-3.93%	-0.45%	-2.60%
MSCI ACWI Value ex-US	8.43%	17.30%	17.30%	5.80%	6.34%	2.92%
MSCI ACWI Growth ex-US	11.13%	14.03%	14.03%	-2.67%	7.49%	4.55%
MSCI ACWI Sm Cap ex-US	10.12%	15.66%	15.66%	1.49%	7.89%	4.88%



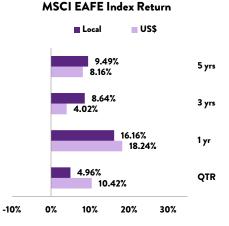
Exchange Rates	QTR	3Q23	2Q23	1Q23	4Q22	3Q22
Japanese Yen	140.92	149.43	144.47	132.75	131.81	144.71
Euro	0.90	0.94	0.92	0.92	0.93	1.02
British Pound	0.78	0.82	0.79	0.81	0.83	0.90
Swiss Franc	0.84	0.91	0.89	0.91	0.92	0.98
Chinese Yuan	7.10	7.30	7.25	6.87	6.90	7.11

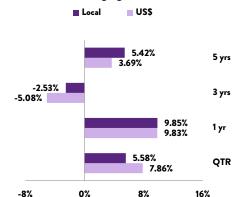
Source: Federal Reserve Bank of St. Louis



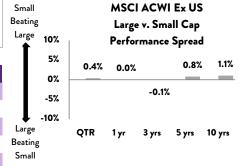
Top 10 Countries (MSCI AC World	d ex-USA)
Japan	15%
UK	9%
France	8%
Canada	8%
China	7%
Switzerland	6%
Germany	6%
Australia	5%
India	5%
Taiwan	4%

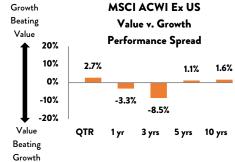
Source: Morningstar





MSCI Emerging Index Return





Performance Source: Morningstar

### Historical Market Returns

Ranked by Performance

2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	4Q23
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 26.29%	Small Cap 14.03%
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%	Mid Cap 17.23%	Mid Cap 12.82%
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%	Small Cap 16.93%	Large Cap 11.69%
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%	Global Balanced 16.35%	Intl 9.75%
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%	Intl 15.62%	Global Balanced 9.75%
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 13.45%	Global Bonds 8.10%
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%	Emerging Markets 9.83%	Emerging Markets 7.86%
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 5.72%	High Yield 7.16%
Commod35.65%	TIPS 11.41%	Global Balanced 9.40%	Mid Cap -1.55%	TIPS 6.98%	US Bonds -2.02%	Global Bonds 0.59%	Small Cap -4.41%	TIPS 4.68%	Core Real Estate 6.66%	Mid Cap -9.06%	TIPS 8.43%	US Bonds 7.51%	High Yield 5.28%	Global Balanced -16.40%	US Bonds 5.53%	US Bonds 6.82%
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%	Cash 5.27%	TIPS 4.71%
Mid Cap -41.46%	US Bonds 5.93%	TIPS 6.31%	Commod13.32%	US Bonds 4.21%	Emerging Markets -2.60%	Emerging Markets -2.18%	Intl -5.66%	US Bonds 2.65%	TIPS 3.01%	Commod11.25%	Global Bonds 6.84%	Cash 0.37%	US Bonds -1.54%	Large Cap -18.11%	TIPS 3.90%	Cash 1.36%
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%	Commod. -7.91%	Commod4.63%
Emerging Markets -53.33%	Core Real Estate -30.40%	Cash 0.15%	Emerging Markets -18.42%	Commod1.06%	Commod9.52%	Commod. -17.00%	Commod24.60%	Cash 0.25%	Cash 0.71%	Emerging Markets -14.58%	Cash 2.30%	Commod3.12%	Global Bonds -4.71%	Small Cap -20.44%	Core Real Estate -12.74%	Core Real Estate -5.01%

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

Source: Morningstar; Core Real Estate Source: NCREIF

Section 2

# **PLAN ASSET ALLOCATION**

Fourth Quarter 2023

Combined 457(b) DC Plans

Fixed Income	Ticker	Assets	%
Voya Fixed Account	-	\$323,267,023	30.3%
Vanguard Total Bond Market Index I	VBTIX	\$37,429,712	3.5%
Sterling Capital Total Return Bond R6	STRDX	\$2,143,741	0.2%
	Total	\$362,840,476	34.0%

Large Cap	Ticker	Assets	%
MFS Value R4	MEIJX	\$21,896,523	2.1%
Vanguard Institutional Index Instl Plus	VIIIX	\$158,305,092	14.9%
JPMorgan Large Cap Growth R6	JLGMX	\$76,629,631	7.2%
	Total	\$256,831,246	24.1%

Mid Cap	Ticker	Assets	%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$7,471,390	0.7%
Vanguard Extended Market Index Instl Plus	VEMPX	\$106,640,243	10.0%
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$22,347,425	2.1%
	Total	\$136,459,059	12.8%

	International	Ticker	Assets	%
	Vanguard Instl Total Intl Stock Mkt Index Trust		\$47,301,995	4.4%
	American Funds EuroPacific Growth R6	RERGX	\$6,676,333	0.6%
_		Total	\$53,978,328	5.1%

Asset Allocation	Ticker	Assets	%
Vanguard Target Retirement Income Trust II	-	\$39,867,832	3.7%
Vanguard Target Retirement 2020 Trust II	-	\$12,323,137	1.2%
Vanguard Target Retirement 2025 Trust II	-	\$47,059,162	4.4%
Vanguard Target Retirement 2030 Trust II	-	\$18,150,726	1.7%
Vanguard Target Retirement 2035 Trust II	-	\$58,386,036	5.5%
Vanguard Target Retirement 2040 Trust II	-	\$10,838,334	1.0%
Vanguard Target Retirement 2045 Trust II	-	\$31,895,619	3.0%
Vanguard Target Retirement 2050 Trust II	-	\$7,618,817	0.7%
Vanguard Target Retirement 2055 Trust II	-	\$9,473,268	0.9%
Vanguard Target Retirement 2060 Trust II	-	\$3,232,519	0.3%
Vanguard Target Retirement 2065 Trust II	-	\$1,508,654	0.1%
Vanguard Target Retirement 2070 Trust II	-	\$452,210	0.0%
	Total	\$240,806,314	22.6%

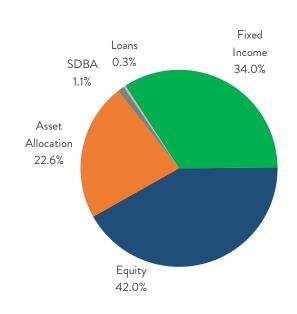
Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account	-	\$11,508,127	1.1%
Participant Loans	-	\$3,519,600	0.3%
	Total	\$15 O27 727	1.4%

**TOTAL PLAN ASSETS** \$1,065,943,150

Administrative Account Balance (1/31/24) \$266,820

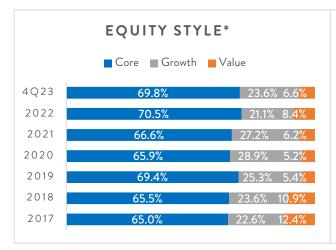
Fourth Quarter 2023

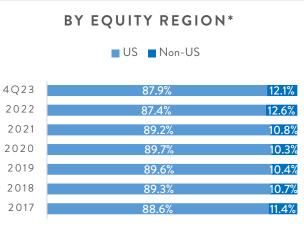
Combined 457(b) DC Plans

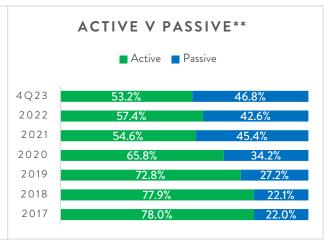


#### HISTORICAL PLAN ALLOCATION

Asset Class	4Q23	2022	2021	2020	2019	2018	2017	2016
Fixed Income	34.0%	39.7%	34.0%	36.7%	38.1%	43.8%	41.5%	N/A
Large Cap	24.1%	20.9%	24.4%	22.4%	21.8%	18.8%	20.4%	N/A
Mid Cap	12.8%	12.2%	14.5%	14.9%	14.4%	13.4%	14.2%	N/A
International	5.1%	4.8%	4.7%	4.3%	4.2%	4.0%	4.4%	N/A
Asset Allocation	22.6%	21.3%	21.3%	20.7%	20.7%	19.2%	18.7%	N/A
SDBA	1.1%	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







<sup>\*</sup>Excludes Fixed Income, Asset Allocation, Brokerage, and Loan assets

<sup>\*\*</sup>Excludes Asset Allocation, Brokerage, and Loan assets

Combined 457(b) DC Plans

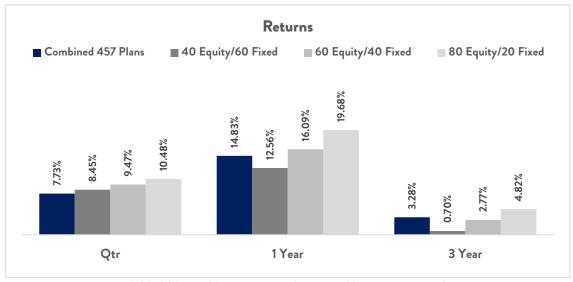
Fourth Quarter 2023

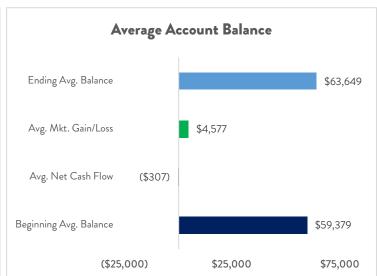
#### **PLAN LEVEL CASH FLOWS**

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$364,285,581	\$3,348,215	(\$11,192,874)	\$1,504,235	\$4,895,319	\$362,840,476
Large Cap	\$227,142,635	\$3,100,197	(\$3,442,416)	\$2,510,260	\$27,520,570	\$256,831,246
Mid Cap	\$121,630,050	\$1,439,284	(\$1,630,953)	(\$2,463,935)	\$17,484,613	\$136,459,059
International	\$49,283,919	\$1,014,998	(\$950,799)	(\$335,830)	\$4,966,039	\$53,978,328
Asset Allocation	\$218,714,563	\$6,672,648	(\$3,860,619)	(\$1,206,839)	\$20,486,561	\$240,806,314
SDBA	\$10,101,817	\$0	\$0	\$362,814	\$1,043,496	\$11,508,127
Total	\$991,158,565	\$15,575,343	(\$21,077,662)	\$370,706	\$76,396,597	\$1,062,423,549

#### HISTORICAL PLAN CASH FLOWS

	Beginning	Net Cash	Market	
	Value	Flow	Gain/Loss	Ending Value
4Q23	\$991,158,565	(\$5,131,613)	\$76,396,597	\$1,062,423,549
YTD	\$944,760,930	(\$21,034,417)	\$138,697,037	\$1,062,423,549
2022	\$1,103,984,931	(\$9,111,229)	(\$150,112,772)	\$944,760,930
2021	\$1,012,211,305	(\$19,402,347)	\$111,175,973	\$1,103,984,931
2020	\$890,766,732	\$942,462	\$120,502,111	\$1,012,211,305
2019	\$771,229,524	(\$7,494,189)	\$127,031,396	\$890,766,732





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

### STATE EMPLOYEES PLAN

### **PLAN ASSET ALLOCATION**

Fourth Quarter 2023

457(b) Deferred Compensation Plan

Fixed Income	Ticker	Assets	%
Voya Fixed Account	-	\$226,395,671	32.3%
Vanguard Total Bond Market Index I	VBTIX	\$24,445,753	3.5%
Sterling Capital Total Return Bond R6	STRDX	\$934,235	0.1%
	Total	\$251,775,659	36.0%

Large Cap	Ticker	Assets	%
MFS Value R4	WEIJX	\$13,782,189	2.0%
Vanguard Institutional Index Instl Plus	VIIIX	\$101,870,780	14.5%
JPMorgan Large Cap Growth R6	JLGMX	\$48,495,599	6.9%
	Total	\$164,148,567	23.4%

Mid Cap	Ticker	Assets	%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$4,305,902	0.6%
Vanguard Extended Market Index Instl Plus	VEMPX	\$69,400,931	9.9%
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$14,512,056	2.1%
	Total	\$88,218,889	12.6%

International	Ticker	Assets	%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$28,577,138	4.1%
American Funds EuroPacific Growth R6	RERGX	\$4,048,363	0.6%
	Total	\$32,625,501	4.7%

Asset Allocation	Ticker	Assets	%
Vanguard Target Retirement Income Trust II	-	\$30,737,126	4.4%
Vanguard Target Retirement 2020 Trust II	-	\$6,983,318	1.0%
Vanguard Target Retirement 2025 Trust II	-	\$30,972,157	4.4%
Vanguard Target Retirement 2030 Trust II	-	\$10,089,495	1.4%
Vanguard Target Retirement 2035 Trust II	-	\$40,200,448	5.7%
Vanguard Target Retirement 2040 Trust II	-	\$5,881,887	0.8%
Vanguard Target Retirement 2045 Trust II	-	\$17,537,097	2.5%
Vanguard Target Retirement 2050 Trust II	-	\$3,423,232	0.5%
Vanguard Target Retirement 2055 Trust II	-	\$4,808,143	0.7%
Vanguard Target Retirement 2060 Trust II	-	\$1,258,830	0.2%
Vanguard Target Retirement 2065 Trust II	-	\$574,959	0.1%
Vanguard Target Retirement 2070 Trust II	-	\$418,427	0.1%
	Total	\$152,885,118	21.8%

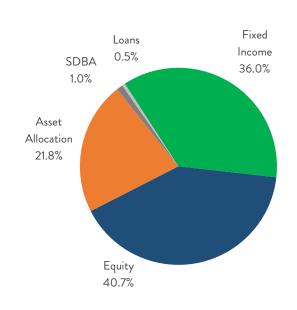
Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account	-	\$7,092,996	1.0%
Participant Loans	-	\$3,518,409	0.5%
	Total	\$10,611,405	1.5%

**TOTAL PLAN ASSETS** \$700,265,140

Administrative Account Balance (1/31/24) \$266,820

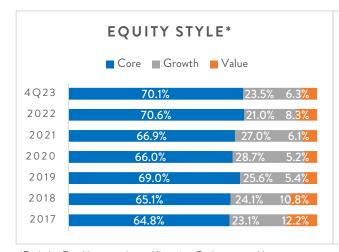
Fourth Quarter 2023

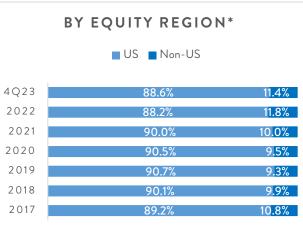
457(b) Deferred Compensation Plan

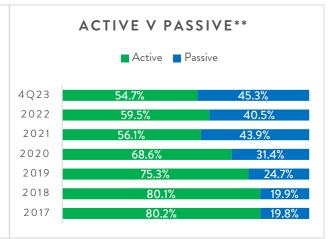


#### HISTORICAL PLAN ALLOCATION

Asset Class	4Q23	2022	2021	2020	2019	2018	2017	2016
Fixed Income	36.0%	41.7%	35.4%	38.0%	40.1%	44.9%	42.8%	N/A
Large Cap	23.4%	20.0%	23.7%	21.5%	20.6%	18.6%	19.1%	N/A
Mid Cap	12.6%	11.8%	14.2%	14.5%	13.8%	12.6%	13.6%	N/A
International	4.7%	4.3%	4.2%	3.8%	3.5%	3.4%	4.0%	N/A
Asset Allocation	21.8%	20.9%	21.3%	21.2%	21.1%	19.4%	19.6%	N/A
SDBA	1.0%	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







<sup>\*</sup>Excludes Fixed Income, Asset Allocation, Brokerage, and Loan assets

<sup>\*\*</sup>Excludes Asset Allocation, Brokerage, and Loan assets

457(b) Deferred Compensation Plan

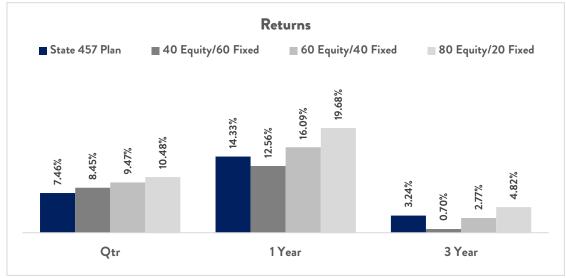
Fourth Quarter 2023

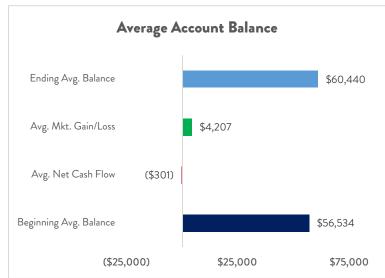
#### **PLAN LEVEL CASH FLOWS**

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$253,894,741	\$1,982,932	(\$6,716,230)	(\$656,738)	\$3,270,955	\$251,775,659
Large Cap	\$144,763,137	\$1,819,929	(\$1,948,458)	\$1,998,606	\$17,515,353	\$164,148,567
Mid Cap	\$77,926,388	\$833,601	(\$915,628)	(\$893,786)	\$11,268,314	\$88,218,889
International	\$29,277,514	\$606,080	(\$324,315)	\$77,579	\$2,988,643	\$32,625,501
Asset Allocation	\$139,695,752	\$3,653,352	(\$2,772,781)	(\$597,709)	\$12,906,504	\$152,885,118
SDBA	\$6,170,769	\$0	\$0	\$378,511	\$543,716	\$7,092,996
Total	\$651,728,300	\$8,895,895	(\$12,677,412)	\$306,464	\$48,493,484	\$696,746,731

#### **HISTORICAL PLAN CASH FLOWS**

			Market	
	Beginning Value	Net Cash Flow	Gain/Loss	Ending Value
4Q23	\$651,728,300	(\$3,475,053)	\$48,493,484	\$696,746,731
YTD	\$628,030,428	(\$19,840,966)	\$88,557,270	\$696,746,731
2022	\$736,232,396	(\$11,933,591)	(\$96,268,377)	\$628,030,428
2021	\$680,605,231	(\$16,866,120)	\$72,493,284	\$736,232,396
2020	\$608,234,330	(\$6,442,157)	\$78,813,059	\$680,605,231
2019	\$537,863,111	(\$14,358,576)	\$84,729,795	\$608,234,330





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

### **POLITICAL SUBDIVISIONS**

# **PLAN ASSET ALLOCATION**

Fourth Quarter 2023

457(b) Deferred Compensation Plan

Fixed Income	Ticker	Assets	%
Voya Fixed Account	-	\$82,074,166	30.6%
Vanguard Total Bond Market Index I	VBTIX	\$8,892,205	3.3%
Sterling Capital Total Return Bond R6	STRDX	\$540,859	0.2%
	Total	\$91,507,231	34.1%

Large Cap	Ticker	Assets	%
MFS Value R4	MEIJX	\$6,193,798	2.3%
Vanguard Institutional Index Instl Plus	VIIIX	\$38,775,157	14.5%
JPMorgan Large Cap Growth R6	JLGMX	\$21,958,247	8.2%
	Total	\$66,927,202	25.0%

Mid Cap	Ticker	Assets	%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$2,145,931	0.8%
Vanguard Extended Market Index Instl Plus	VEMPX	\$27,367,902	10.2%
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$4,828,997	1.8%
	Total	\$34,342,830	12.8%

International	Ticker	Assets	%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$13,641,029	5.1%
American Funds EuroPacific Growth R6	RERGX	\$1,383,271	0.5%
	Total	\$15,024,300	5.6%

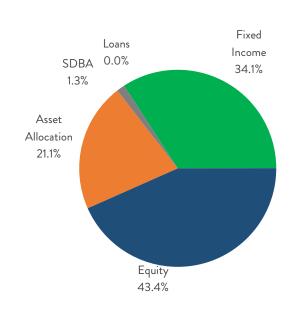
Asset Allocation	Ticker	Assets	%
Vanguard Target Retirement Income Trust II	-	\$4,421,387	1.6%
Vanguard Target Retirement 2020 Trust II	-	\$2,468,272	0.9%
Vanguard Target Retirement 2025 Trust II	-	\$9,354,950	3.5%
Vanguard Target Retirement 2030 Trust II	-	\$4,335,754	1.6%
Vanguard Target Retirement 2035 Trust II	-	\$12,277,899	4.6%
Vanguard Target Retirement 2040 Trust II	-	\$3,134,299	1.2%
Vanguard Target Retirement 2045 Trust II	-	\$11,278,659	4.2%
Vanguard Target Retirement 2050 Trust II	-	\$3,079,098	1.1%
Vanguard Target Retirement 2055 Trust II	-	\$3,839,849	1.4%
Vanguard Target Retirement 2060 Trust II	-	\$1,831,078	0.7%
Vanguard Target Retirement 2065 Trust II	-	\$614,587	0.2%
Vanguard Target Retirement 2070 Trust II	-	\$17,189	0.0%
	Total	\$56,653,019	21.1%

Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account	-	\$3,589,258	1.3%
Participant Loans	-	\$1,191	0.0%
	Total	\$3,590,449	1.3%

**TOTAL PLAN ASSETS** \$268,045,032

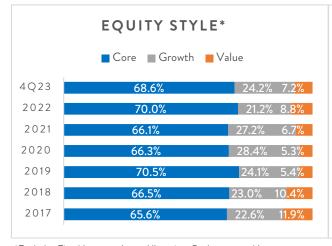
457(b) Deferred Compensation Plan

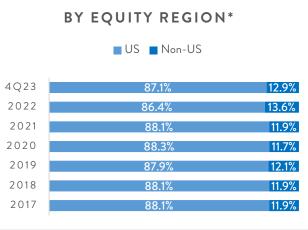
Fourth Quarter 2023

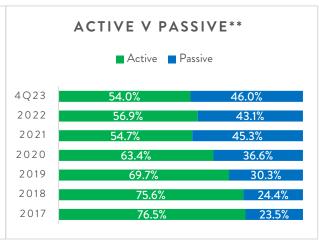


#### HISTORICAL PLAN ALLOCATION

Asset Class	4Q23	2022	2021	2020	2019	2018	2017	2016
Fixed Income	34.1%	39.6%	34.5%	37.9%	37.5%	46.2%	42.5%	N/A
Large Cap	25.0%	22.3%	25.5%	24.5%	24.4%	17.5%	22.8%	N/A
Mid Cap	12.8%	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	21.1%	18.9%	18.0%	16.2%	16.6%	15.6%	14.0%	N/A
SDBA	1.3%	1.1%	1.5%	0.9%	0.7%	0.5%	0.6%	N/A
Loans	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	N/A







<sup>\*</sup>Excludes Fixed Income, Asset Allocation, Brokerage, and Loan assets

<sup>\*\*</sup>Excludes Asset Allocation, Brokerage, and Loan assets

457(b) Deferred Compensation Plan

Fourth Quarter 2023

#### **PLAN LEVEL CASH FLOWS**

Total

\$250,495,646

\$4,581,435

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$91,224,629	\$940,671	(\$3,989,321)	\$2,115,680	\$1,215,572	\$91,507,231
Large Cap	\$60,070,580	\$775,383	(\$1,055,919)	(\$119,676)	\$7,256,833	\$66,927,202
Mid Cap	\$31,528,171	\$455,346	(\$595,817)	(\$1,489,656)	\$4,444,786	\$34,342,830
International	\$14,099,324	\$269,728	(\$454,477)	(\$275,332)	\$1,385,057	\$15,024,300
Asset Allocation	\$50,362,646	\$2,140,307	(\$637,832)	(\$144,793)	\$4,932,692	\$56,653,019
SDBA	\$3,210,295	\$0	\$0	(\$50,056)	\$429,018	\$3,589,258

(\$6,733,367)

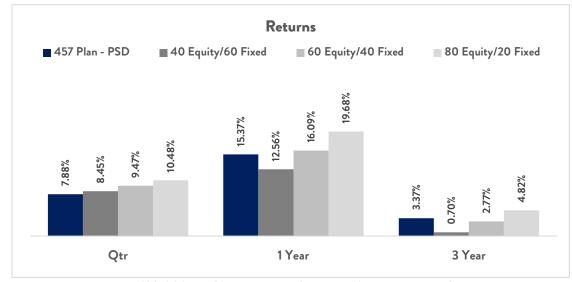
\$36,168

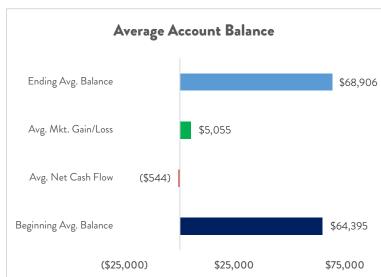
\$19,663,958

\$268,043,840

#### **HISTORICAL PLAN CASH FLOWS**

		Net Cash	Market	
	Beginning Value	Flow	Gain/Loss	Ending Value
4Q23	\$250,495,646	(\$2,115,763)	\$19,663,958	\$268,043,840
YTD	\$233,192,231	(\$1,091,729)	\$35,943,338	\$268,043,840
2022	\$268,237,618	\$2,772,040	(\$37,817,427)	\$233,192,231
2021	\$244,053,779	(\$3,563,244)	\$27,747,083	\$268,237,618
2020	\$211,520,904	\$2,964,561	\$29,568,315	\$244,053,779
2019	\$174,082,438	\$7,146,048	\$30,292,417	\$211,520,904





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

# **NEVADA SYSTEM OF HIGHER EDUCATION**

# **PLAN ASSET ALLOCATION**

457(b) Deferred Compensation Plan

Fourth Quarter 2023

Fixed Income	Ticker	Assets	%
Voya Fixed Account	-	\$14,797,186	15.2%
Vanguard Total Bond Market Index I	VBTIX	\$4,091,754	4.2%
Sterling Capital Total Return Bond R6	STRDX	\$668,647	0.7%
	Total	\$19,557,586	20.0%

Large Cap	Ticker	Assets	%
MFS Value R4	MEIJX	\$1,920,536	2.0%
Vanguard Institutional Index Instl Plus	VIIIX	\$17,659,155	18.1%
JPMorgan Large Cap Growth R6	JLGMX	\$6,175,785	6.3%
	Total	\$25,755,477	26.4%

Mid Cap	Ticker	Assets	%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$1,019,558	1.0%
Vanguard Extended Market Index Instl Plus	VEMPX	\$9,871,410	10.1%
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$3,006,372	3.1%
	Total	\$13,897,340	14.2%

International	Ticker	Assets	%
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$5,083,827	5.2%
American Funds EuroPacific Growth R6	RERGX	\$1,244,700	1.3%
	Total	\$6,328,527	6.5%

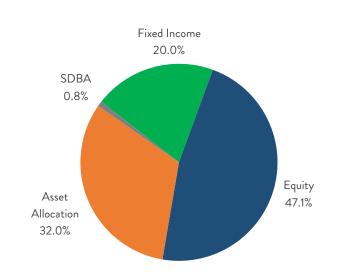
Asset Allocation	Ticker	Assets	%
Vanguard Target Retirement Income Trust II	-	\$4,709,320	4.8%
Vanguard Target Retirement 2020 Trust II	-	\$2,871,547	2.9%
Vanguard Target Retirement 2025 Trust II	-	\$6,732,055	6.9%
Vanguard Target Retirement 2030 Trust II	-	\$3,725,478	3.8%
Vanguard Target Retirement 2035 Trust II	-	\$5,907,689	6.1%
Vanguard Target Retirement 2040 Trust II	-	\$1,822,148	1.9%
Vanguard Target Retirement 2045 Trust II	-	\$3,079,862	3.2%
Vanguard Target Retirement 2050 Trust II	-	\$1,116,488	1.1%
Vanguard Target Retirement 2055 Trust II	-	\$825,276	0.8%
Vanguard Target Retirement 2060 Trust II	-	\$142,611	0.1%
Vanguard Target Retirement 2065 Trust II	-	\$319,108	0.3%
Vanguard Target Retirement 2070 Trust II	-	\$16,594	0.0%
	Total	\$31,268,176	32.0%

Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account	-	\$825,872	0.8%
	Total	\$925 972	0.8%

TOTAL PLAN ASSETS \$97,632,978

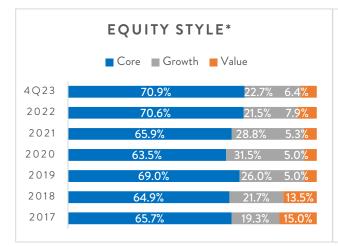
457(b) Deferred Compensation Plan

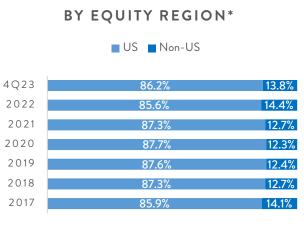
Fourth Quarter 2023

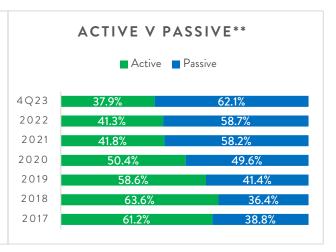


#### HISTORICAL PLAN ALLOCATION

Asset Class	4Q23	2022	2021	2020	2019	2018	2017	2016
Fixed Income	20.0%	24.6%	22.3%	22.9%	22.4%	27.3%	26.9%	N/A
Large Cap	26.4%	23.7%	26.1%	24.4%	24.4%	24.1%	24.7%	N/A
Mid Cap	14.2%	14.1%	15.6%	17.3%	17.1%	15.7%	16.8%	N/A
International	6.5%	6.3%	6.1%	5.8%	5.9%	5.8%	6.8%	N/A
Asset Allocation	32.0%	30.7%	29.4%	29.1%	29.9%	26.8%	24.7%	N/A
SDBA	0.8%	0.6%	0.6%	0.5%	0.3%	0.3%	0.1%	N/A







<sup>\*</sup>Excludes Fixed Income, Asset Allocation, and Brokerage assets

<sup>\*\*</sup>Excludes Asset Allocation and Brokerage assets

457(b) Deferred Compensation Plan

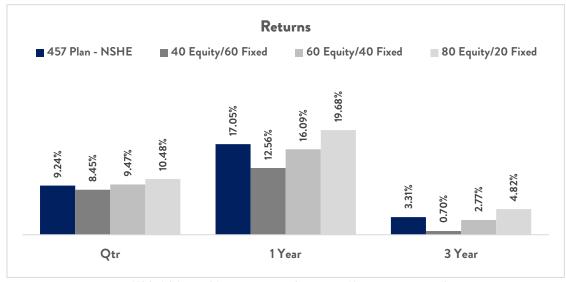
Fourth Quarter 2023

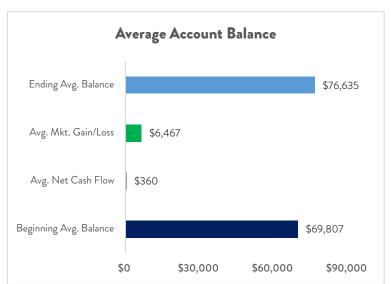
#### **PLAN LEVEL CASH FLOWS**

		Cash Flow	Cash Flow		Market	
	Beginning Value	(+)	(-)	Transfer	Gain/Loss	Ending Value
Fixed Income	\$19,166,211	\$424,612	(\$487,322)	\$45,293	\$408,792	\$19,557,586
Large Cap	\$22,308,918	\$504,885	(\$438,039)	\$631,329	\$2,748,384	\$25,755,477
Mid Cap	\$12,175,491	\$150,337	(\$119,508)	(\$80,493)	\$1,771,513	\$13,897,340
International	\$5,907,081	\$139,190	(\$172,007)	(\$138,077)	\$592,339	\$6,328,527
Asset Allocation	\$28,656,166	\$878,989	(\$450,006)	(\$464,337)	\$2,647,365	\$31,268,176
SDBA	\$720,752	\$0	\$0	\$34,358	\$70,762	\$825,872
Total	\$88,934,619	\$2,098,013	(\$1,666,883)	\$28,074	\$8,239,155	\$97,632,978

#### **HISTORICAL PLAN CASH FLOWS**

			Market	
	Beginning Value	Net Cash Flow	Gain/Loss	Ending Value
4Q23	\$88,934,619	\$459,204	\$8,239,155	\$97,632,978
YTD	\$83,538,271	(\$101,721)	\$14,196,428	\$97,632,978
2022	\$99,514,917	\$50,322	(\$16,026,968)	\$83,538,271
2021	\$87,552,294	\$1,027,017	\$10,935,606	\$99,514,917
2020	\$71,011,498	\$4,420,058	\$12,120,738	\$87,552,294
2019	\$59,283,975	(\$281,661)	\$12,009,184	\$71,011,498





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

# **PLAN ASSET ALLOCATION**

401(a) Plan Fourth Quarter 2023

Fixed Income	Ticker	Assets	%
Voya Fixed Account	-	\$0	0.0%
Vanguard Total Bond Market Index I	VBTIX	\$0	0.0%
Sterling Capital Total Return Bond R6	STRDX	\$0	0.0%
	Total	\$0	0.0%

Large Cap	Ticker	Assets	%
MFS Value R4	WEIJX	\$0	0.0%
Vanguard Institutional Index Instl Plus	VIIIX	\$0	0.0%
JPMorgan Large Cap Growth R6	JLGMX	\$0	0.0%
	Total	\$0	0.0%

Mid Cap	Ticker	Assets	%
Vanguard Mid-Cap Value Index Adm	VMVAX	\$0	0.0%
Vanguard Extended Market Index Instl Plus	VEMPX	\$0	0.0%
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$0	0.0%
	Total	\$0	0.0%

International	Ticker	Assets	%
Vanguard Total Intl Stock Index Inv	VGTSX	\$0	0.0%
American Funds EuroPacific Growth R6	RERGX	\$0	0.0%
	Total	\$0	0.0%

Asset Allocation	Ticker	Assets	%
Vanguard Target Retirement Income	VTINX	\$0	0.0%
Vanguard Target Retirement 2020	VTWNX	\$0	0.0%
Vanguard Target Retirement 2025	VTTVX	\$6,554	100.0%
Vanguard Target Retirement 2030	VTHRX	\$0	0.0%
Vanguard Target Retirement 2035	VTTHX	\$0	0.0%
Vanguard Target Retirement 2040	VFORX	\$0	0.0%
Vanguard Target Retirement 2045	VTIVX	\$0	0.0%
Vanguard Target Retirement 2050	VFIFX	\$0	0.0%
Vanguard Target Retirement 2055	VFFVX	\$0	0.0%
Vanguard Target Retirement 2060	VTTSX	\$0	0.0%
Vanguard Target Retirement 2065	VLXVX	\$0	0.0%
Vanguard Target Retirement 2070	VSVNX	\$0	0.0%
	Total	\$6,554	100.0%

Miscellaneous	Ticker	Assets	%
Self-Directed Brokerage Account		\$0	0.0%
Participant Loans	-	\$0	0.0%
	Total	\$0	0.0%

TOTAL PLAN ASSETS \$6,554

Fourth Quarter 2023

FICA Alternative OBRA Plan

#### HISTORICAL PLAN CASH FLOWS

Fixed Income	Ticker	Assets	%
Voya Fixed Account - FICA	-	\$63,536,962	100.0%
	Total	\$63,536,962	100.0%

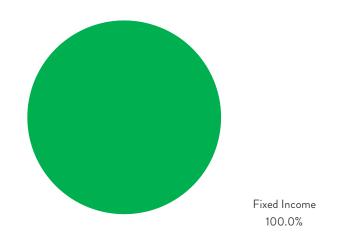
	Beginning Value	Net Cash Flow	Market Gain/Loss	Ending Value
4Q23	\$62,313,760	\$873,786	\$349,416	\$63,536,962
YTD	\$58,595,787	\$3,586,182	\$1,354,993	\$63,536,962
2022	\$53,114,954	\$4,247,755	\$1,233,078	\$58,595,787
2021	\$48,389,052	\$3,600,343	\$1,125,559	\$53,114,954
2020	\$45,103,420	\$2,240,312	\$1,045,320	\$48,389,052
2019	\$40,981,957	\$3,480,620	\$640,843	\$45,103,420

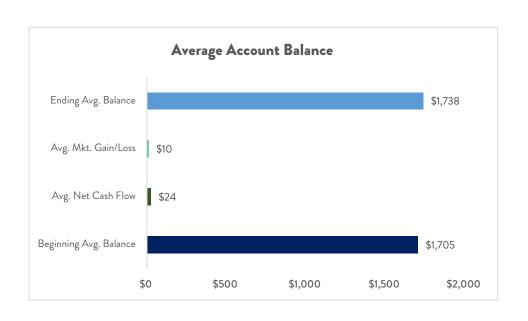
TOTAL PLAN ASSETS

\$63,536,962

Administrative Account Balance (1/31/24)

\$41,361





Section 3

# **INVESTMENT POLICY STATEMENT COMPLIANCE REPORT**

Investment F	Policy	Status
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	Performance	Qualitative	On-Watch		Added to
Key: <sup>(?)</sup> 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	•	-	Ownership change.	3Q2021
MFS Value R4	P	P	-		3Q2016
Vanguard Institutional Index Instl Plus	P	P	-		3Q2021
JPMorgan Large Cap Growth R6	P	P	-		2Q2023
Vanguard Mid-Cap Value Index Adm	P	P	-		2Q2017
Vanguard Extended Market Index Instl Plus	P	P	-		3Q2021
Vanguard Mid-Cap Growth Index Adm	P	P	-		2Q2022
Vanguard Instl Total Intl Stock Mkt Index Trust	P	P	-		4Q2022
Vanguard Total Intl Stock Index Inv-401(a) only	P	P	-	To transition to CIT version of fund.	4Q2023
American Funds EuroPacific Growth R6	P	P	-		1Q2019
Vanguard Target Retirement Income Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2020 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2025 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2030 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2035 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2040 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2045 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2050 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2055 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2060 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2065 Trust II	P	P	-		4Q2022
Vanguard Target Retirement 2070 Trust II	P	P	-		4Q2022
Vanguard Target Retirement Income-401(a) only	P	P	-		4Q2023
Vanguard Target Retirement 2020-401(a) only	P	P	-		4Q2023
Vanguard Target Retirement 2025-401(a) only	P	P	-		4Q2023
Vanguard Target Retirement 2030-401(a) only	P	P	-	Target Date Series to transition to CIT version of funds.	4Q2023
Vanguard Target Retirement 2035-401(a) only	P	P	-		4Q2023
Vanguard Target Retirement 2040-401(a) only	P	P	-		4Q2023

### INVESTMENT POLICY STATEMENT COMPLIANCE REPORT

Combined Retirement Plans

### **Investment Policy Status**



Vanguard Target Retirement 2045-401(a) only Vanguard Target Retirement 2050-401(a) only Vanguard Target Retirement 2055-401(a) only Vanguard Target Retirement 2060-401(a) only Vanguard Target Retirement 2065-401(a) only Vanguard Target Retirement 2070-401(a) only

Performance	Qualitative	On-Watch		Added to
Factors	Factors	Information	Notes	Plan
P	P	-		4Q2023
P	P	-		4Q2023
P	P	-	Target Date Series to transition to CIT version of funds.	4Q2023
P	P	-		4Q2023
P	P	-		4Q2023
P	P	-		4Q2023

				-	Annualized							
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Voya Fixed Account	0.74	3.00	3.00	3.03	2.98		-	3.00	3.10	3.10	2.70	2.54
5 Yr Constant Maturity US Treasury Yield	1.09	4.06	4.06	2.63	2.07	1.96	1.81	3.00	0.85	0.54	1.96	2.75
+/- Index	(0.35)	(1.06)	(1.06)	0.41	0.91	-	-	0.00	2.25	2.56	0.74	(0.21)
US Stable Value	21	16	16	1	2	-	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	2.25	2.25	2.25	2.10	-	-	2.25	2.25	2.25	1.50	1.50
5 Yr Constant Maturity US Treasury Yield	1.09	4.06	4.06	2.63	2.07	1.96	1.81	3.00	0.85	0.54	1.96	2.75
+/- Index	(0.53)	(1.81)	(1.81)	(0.38)	0.03	-	-	(0.75)	1.40	1.71	(0.46)	(1.25)
US Stable Value	70	67	67	15	28	-	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	6.69	5.72	5.72	-3.34	1.13	1.80	2.67	-13.15	-1.65	7.74	8.73	-0.01
Bloomberg US Aggregate Bond Index	6.82	5.53	5.53	-3.31	1.10	1.81	2.68	-13.01	-1.54	7.51	8.72	0.01
+/- Index	(0.13)	0.19	0.19	(0.03)	0.03	(0.01)	(0.01)	(0.14)	(0.11)	0.23	0.01	(0.02)
US Fund Intermediate Core Bond	53	43	43	41	46	38	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	6.70	5.97	5.97	-3.10	1.70	2.27	3.58	-13.15	-1.12	9.35	9.37	-0.27
Bloomberg US Aggregate Bond Index	6.82	5.53	5.53	-3.31	1.10	1.81	2.68	-13.01	-1.54	7.51	8.72	0.01
+/- Index	(0.12)	0.44	0.44	0.21	0.60	0.46	0.90	(0.14)	0.42	1.84	0.65	(0.28)
US Fund Intermediate Core Bond	49	28	28	26	12	8	N/A	34	28	15	18	42
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
MFS Value R4	9.50	8.17	8.17	8.48	11.53	8.68	11.19	-5.90	25.42	3.91	30.08	-9.87
Russell 1000 Value Index	9.50	11.46	11.46	8.86	10.91	8.40	11.09	-7.54	25.16	2.80	26.54	-8.27
+/- Index	0.00	(3.29)	(3.29)	(0.38)	0.62	0.28	0.10	1.64	0.26	1.11	3.54	(1.60)
US Fund Large Value	50	76	76	72	43	36	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	11.68	26.26	26.26	9.98	15.67	12.02	13.97	-18.13	28.69	18.41	31.48	-4.41
S&P 500 Index	11.69	26.29	26.29	10.00	15.69	12.03	13.97	-18.11	28.71	18.40	31.49	-4.38
+/- Index	(0.01)	(0.03)	(0.03)	(0.02)	(0.02)	(0.01)	0.00	(0.02)	(0.02)	0.01	0.00	(0.02)
US Fund Large Blend	45	24	24	24	17	7	N/A	49	21	32	22	22
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
JPMorgan Large Cap Growth R6	13.48	34.95	34.95	6.23	21.19	15.67	17.29	-25.21	18.79	56.42	39.39	0.57
Russell 1000 Growth Index	14.16	42.68	42.68	8.86	19.50	14.86	16.68	-29.14	27.60	38.49	36.39	-1.51
+/- Index	(0.68)	(7.73)	(7.73)	(2.63)	1.69	0.81	0.61	3.93	(8.81)	17.93	3.00	2.08
US Fund Large Growth	65	65	65	39	2	3	N/A	22	68	10	4	26
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Mid-Cap Value Index Adm	11.51	9.76	9.76	9.18	11.31	8.49	12.74	-7.90	28.76	2.54	27.99	-12.42
Vanguard US Mid Cap Value Index	11.52	9.78	9.78	9.24	11.34	8.53	12.78	-7.84	28.83	2.50	28.05	-12.42
+/- Index	(0.01)	(0.02)	(0.02)	(0.06)	(0.03)	(0.04)	(0.04)	(0.06)	(0.07)	0.04	(0.06)	0.00
US Fund Mid-Cap Value	44	80	80	63	49	23	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	15.13	25.41	25.41	1.23	11.93	8.57	13.06	-26.45	12.48	32.24	28.07	-9.35
Vanguard Extended Market Index	14.90	24.97	24.97	1.04	11.77	8.42	12.95	-26.54	12.35	32.17	27.95	-9.57
+/- Index	0.23	0.44	0.44	0.19	0.16	0.15	0.11	0.09	0.13	0.07	0.12	0.22
US Fund Mid-Cap Blend	6	9	9	94	52	39	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	13.11	23.14	23.14	1.82	13.70	10.12	14.00	-28.84	20.48	34.48	33.86	-5.60
Vanguard US Mid Cap Growth Index	13.13	23.20	23.20	1.86	13.75	10.17	13.99	-28.83	20.51	34.56	33.93	-5.57
+/- Index	(0.02)	(0.06)	(0.06)	(0.04)	(0.05)	(0.05)	0.01	(0.01)	(0.03)	(0.08)	(0.07)	(0.04)
US Fund Mid-Cap Growth	37	33	33	24	27	32	N/A	55	15	54	49	56

				Annualized								
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Instl Total Intl Stock Mkt Index Trust	9.97	15.66	15.66	1.87	7.48	-	-	-15.92	8.73	11.48	21.68	-14.35
Vanguard Total International Stock Index	9.77	15.79	15.79	1.88	7.46	4.20	6.91	-16.10	8.84	11.24	21.81	-14.62
+/- Index	0.20	(0.13)	(0.13)	(0.01)	0.02	-	-	0.18	(0.11)	0.24	(0.13)	0.27
US Fund Foreign Large Blend	48	56	56	58	59	-	N/A	50	63	38	58	38
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Total Intl Stock Index Inv	9.92	15.38	15.38	1.70	7.27	4.02	6.62	-16.05	8.61	11.16	21.43	-14.44
Vanguard Total International Stock Index	9.77	15.79	15.79	1.88	7.46	4.20	6.91	-16.10	8.84	11.24	21.81	-14.62
+/- Index	0.15	(0.41)	(0.41)	(0.18)	(0.19)	(0.18)	(0.29)	0.05	(0.23)	(80.0)	(0.37)	0.17
US Fund Foreign Large Blend	51	61	61	61	67	49	N/A	53	65	41	63	40
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
American Funds EuroPacific Growth R6	10.37	16.05	16.05	-2.66	8.04	4.90	7.80	-22.72	2.84	25.27	27.40	-14.91
MSCI ACWI Ex-USA (Net) Index	9.75	15.62	15.62	1.55	7.08	3.83	6.74	-16.00	7.82	10.65	21.51	-14.20
+/- Index	0.62	0.43	0.43	(4.21)	0.96	1.07	1.06	(6.72)	(4.98)	14.61	5.89	(0.71)
US Fund Foreign Large Blend	41	51	51	97	42	14	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	7.32	10.70	10.70	0.56	4.86	4.13	5.60	-12.73	5.25	10.08	13.28	-2.00
Vanguard Retirement Income Index	7.33	10.81	10.81	0.76	5.13	4.32	5.74	-12.44	5.43	10.70	13.40	-1.98
+/- Index	(0.01)	(0.11)	(0.11)	(0.20)	(0.27)	(0.19)	(0.14)	(0.29)	(0.18)	(0.63)	(0.12)	(0.03)
US Fund Target-Date Retirement	58	44	44	40	39	19	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	7.99	12.52	12.52	1.50	6.65	5.58	7.94	-14.14	8.24	12.10	17.69	-4.19
Vanguard Retirement 2020 Index	7.97	12.65	12.65	1.74	6.98	5.80	8.15	-13.77	8.43	12.86	17.87	-4.14
+/- Index	0.02	(0.13)	(0.13)	(0.24)	(0.33)	(0.22)	(0.21)	(0.37)	(0.19)	(0.76)	(0.18)	(0.05)
US Fund Target-Date 2020	64	27	27	40	34	14	N/A	40	60	38	32	45

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	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2025 Trust II	8.87	14.54	14.54	2.10	7.64	6.18	8.63	-15.44	9.90	13.39	19.75	-5.07
Vanguard Retirement 2025 Index	8.85	14.73	14.73	2.39	8.01	6.43	8.86	-15.02	10.10	14.19	19.93	-5.01
+/- Index	0.02	(0.19)	(0.19)	(0.29)	(0.37)	(0.25)	(0.23)	(0.42)	(0.20)	(0.79)	(0.18)	(0.07)
US Fund Target-Date 2025	31	6	6	23	18	8	N/A	48	45	29	17	43
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2030 Trust II	9.54	16.03	16.03	2.73	8.45	6.66	9.24	-16.16	11.46	14.19	21.15	-5.79
Vanguard Retirement 2030 Index	9.51	16.27	16.27	3.05	8.83	6.92	9.48	-15.71	11.65	14.96	21.33	-5.74
+/- Index	0.03	(0.24)	(0.24)	(0.32)	(0.38)	(0.26)	(0.24)	(0.45)	(0.19)	(0.78)	(0.18)	(0.05)
US Fund Target-Date 2030	37	6	6	29	28	14	N/A	43	53	33	35	37
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2035 Trust II	9.89	17.20	17.20	3.42	9.28	7.15	9.83	-16.52	13.07	14.92	22.57	-6.54
Vanguard Retirement 2035 Index	9.86	17.43	17.43	3.72	9.64	7.40	10.07	-16.22	13.24	15.67	22.76	-6.48
+/- Index	0.03	(0.23)	(0.23)	(0.30)	(0.36)	(0.25)	(0.24)	(0.30)	(0.17)	(0.75)	(0.19)	(0.06)
US Fund Target-Date 2035	61	26	26	39	39	22	N/A	35	74	37	45	29
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2040 Trust II	10.23	18.37	18.37	4.08	10.07	7.60	10.24	-16.94	14.68	15.57	23.97	-7.30
Vanguard Retirement 2040 Index	10.20	18.60	18.60	4.38	10.43	7.87	10.50	-16.51	14.85	16.31	24.19	-7.22
+/- Index	0.03	(0.23)	(0.23)	(0.30)	(0.36)	(0.27)	(0.26)	(0.43)	(0.17)	(0.73)	(0.22)	(0.08)
US Fund Target-Date 2040	72	43	43	52	42	24	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	10.56	19.53	19.53	4.75	10.82	7.97	10.51	-17.33	16.33	16.27	25.07	-7.86
Vanguard Retirement 2045 Index	10.54	19.78	19.78	5.03	11.20	8.25	10.76	-16.84	16.45	17.03	25.36	-7.77
+/- Index	0.02	(0.25)	(0.25)	(0.28)	(0.38)	(0.28)	(0.25)	(0.49)	(0.12)	(0.76)	(0.29)	(0.10)
US Fund Target-Date 2045	71	39	39	40	32	19	N/A	30	61	35	36	39

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	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2050 Trust II	10.80	20.22	20.22	4.99	10.99	8.05	10.56	-17.45	16.60	16.42	25.05	-7.83
Vanguard Retirement 2050 Index	10.78	20.46	20.46	5.27	11.37	8.34	10.81	-17.07	16.77	17.18	25.36	-7.77
+/- Index	0.02	(0.24)	(0.24)	(0.28)	(0.38)	(0.29)	(0.25)	(0.38)	(0.17)	(0.76)	(0.31)	(0.06)
US Fund Target-Date 2050	65	38	38	34	28	16	N/A	28	62	35	42	32
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2055 Trust II	10.81	20.23	20.23	4.99	11.00	8.05	-	-17.44	16.59	16.41	25.07	-7.85
Vanguard Retirement 2055 Index	10.78	20.46	20.46	5.27	11.37	8.34	-	-17.07	16.77	17.18	25.36	-7.77
+/- Index	0.03	(0.23)	(0.23)	(0.28)	(0.37)	(0.29)	-	(0.37)	(0.18)	(0.76)	(0.29)	(0.09)
US Fund Target-Date 2055	65	42	42	36	30	21	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	10.81	20.23	20.23	5.00	11.02	8.06	-	-17.41	16.56	16.50	25.09	-7.85
Vanguard Retirement 2060 Index	10.78	20.46	20.46	5.27	11.37	8.34	-	-17.07	16.77	17.18	25.36	-7.77
+/- Index	0.03	(0.23)	(0.23)	(0.27)	(0.35)	(0.28)	-	(0.34)	(0.21)	(0.68)	(0.27)	(0.09)
US Fund Target-Date 2060	68	44	44	37	35	11	N/A	24	73	38	48	30
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2065 Trust II	10.83	20.24	20.24	4.99	11.02	-	-	-17.40	16.54	16.45	25.11	-7.70
Vanguard Retirement 2065 Index	10.78	20.46	20.46	5.27	11.37	-	-	-17.07	16.77	17.18	25.36	-7.77
+/- Index	0.05	(0.22)	(0.22)	(0.28)	(0.35)	-	-	(0.33)	(0.23)	(0.73)	(0.25)	0.07
US Fund Target-Date 2065+	64	50	50	34	70	-	N/A	18	64	51	59	-
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2070 Trust II	10.80	20.23	20.23	-	-	-	-	-	-	-	-	-
Vanguard Retirement 2070 Index	10.78	20.46	20.46	-	-	-	-	-	-	-	-	-
+/- Index	0.02	(0.23)	(0.23)	-	-	-	-	-	-	-	-	-
US Fund Target-Date 2065+	64	50	50	-	-	-	N/A	-	-	-	-	-

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	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement Income	7.26	10.65	10.65	0.54	4.82	4.08	5.55	-12.74	5.25	10.02	13.16	-1.99
Vanguard Retirement Income Index	7.33	10.81	10.81	0.76	5.13	4.32	5.74	-12.44	5.43	10.70	13.40	-1.98
+/- Index	(0.07)	(0.16)	(0.16)	(0.22)	(0.31)	(0.24)	(0.19)	(0.30)	(0.18)	(0.68)	(0.24)	(0.01)
US Fund Target-Date Retirement	59	46	46	41	42	23	N/A	49	64	30	48	18
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2020	8.00	12.51	12.51	1.47	6.61	5.52	7.88	-14.15	8.17	12.04	17.63	-4.24
Vanguard Retirement 2020 Index	7.97	12.65	12.65	1.74	6.98	5.80	8.15	-13.77	8.43	12.86	17.87	-4.14
+/- Index	0.03	(0.14)	(0.14)	(0.27)	(0.37)	(0.28)	(0.27)	(0.38)	(0.26)	(0.82)	(0.24)	(0.10)
US Fund Target-Date 2020	63	28	28	43	35	19	N/A	40	62	41	32	47
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2025	8.87	14.55	14.55	2.03	7.56	6.10	8.56	-15.55	9.80	13.30	19.63	-5.15
Vanguard Retirement 2025 Index	8.85	14.73	14.73	2.39	8.01	6.43	8.86	-15.02	10.10	14.19	19.93	-5.01
+/- Index	0.02	(0.18)	(0.18)	(0.36)	(0.45)	(0.33)	(0.30)	(0.53)	(0.30)	(0.89)	(0.30)	(0.14)
US Fund Target-Date 2025	31	6	6	25	21	10	N/A	52	47	34	20	48
_	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2030	9.50	15.99	15.99	2.65	8.37	6.58	9.17	-16.27	11.38	14.10	21.07	-5.86
Vanguard Retirement 2030 Index	9.51	16.27	16.27	3.05	8.83	6.92	9.48	-15.71	11.65	14.96	21.33	-5.74
+/- Index	(0.01)	(0.28)	(0.28)	(0.40)	(0.46)	(0.34)	(0.31)	(0.56)	(0.27)	(0.86)	(0.26)	(0.12)
US Fund Target-Date 2030	40	7	7	34	32	19	N/A	47	54	35	37	39
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	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2035	9.87	17.14	17.14	3.33	9.17	7.06	9.75	-16.62	12.96	14.79	22.44	-6.58
Vanguard Retirement 2035 Index	9.86	17.43	17.43	3.72	9.64	7.40	10.07	-16.22	13.24	15.67	22.76	-6.48
+/- Index	0.01	(0.29)	(0.29)	(0.39)	(0.47)	(0.34)	(0.32)	(0.40)	(0.28)	(0.87)	(0.33)	(0.10)
US Fund Target-Date 2035	62	26	26	46	45	27	N/A	38	78	38	49	31

## **STATE OF NEVADA**

## **Combined Retirement Plans**

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	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2040	10.23	18.34	18.34	4.02	9.99	7.52	10.17	-16.98	14.56	15.47	23.86	-7.32
Vanguard Retirement 2040 Index	10.20	18.60	18.60	4.38	10.43	7.87	10.50	-16.51	14.85	16.31	24.19	-7.22
+/- Index	0.03	(0.26)	(0.26)	(0.36)	(0.44)	(0.35)	(0.33)	(0.47)	(0.29)	(0.83)	(0.33)	(0.11)
US Fund Target-Date 2040	72	44	44	57	44	29	N/A	34	80	39	49	35
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2045	10.57	19.48	19.48	4.68	10.76	7.91	10.43	-17.36	16.16	16.30	24.94	-7.90
Vanguard Retirement 2045 Index	10.54	19.78	19.78	5.03	11.20	8.25	10.76	-16.84	16.45	17.03	25.36	-7.77
+/- Index	0.03	(0.30)	(0.30)	(0.35)	(0.44)	(0.34)	(0.33)	(0.52)	(0.29)	(0.73)	(0.42)	(0.13)
US Fund Target-Date 2045	68	41	41	45	34	23	N/A	31	65	34	40	41
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2050	10.79	20.17	20.17	4.91	10.93	7.99	10.49	-17.46	16.41	16.39	24.98	-7.90
Vanguard Retirement 2050 Index	10.78	20.46	20.46	5.27	11.37	8.34	10.81	-17.07	16.77	17.18	25.36	-7.77
+/- Index	0.01	(0.29)	(0.29)	(0.36)	(0.44)	(0.35)	(0.32)	(0.39)	(0.36)	(0.79)	(0.38)	(0.13)
US Fund Target-Date 2050	65	39	39	38	33	21	N/A	29	70	35	45	37
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2055	10.78	20.16	20.16	4.92	10.92	7.97	-	-17.46	16.44	16.32	24.98	-7.89
Vanguard Retirement 2055 Index	10.78	20.46	20.46	5.27	11.37	8.34	-	-17.07	16.77	17.18	25.36	-7.77
+/- Index	0.00	(0.30)	(0.30)	(0.35)	(0.45)	(0.37)	-	(0.39)	(0.33)	(0.86)	(0.38)	(0.12)
US Fund Target-Date 2055	66	44	44	37	36	26	N/A	26	75	40	47	35
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2060	10.79	20.18	20.18	4.92	10.92	7.97	-	-17.46	16.44	16.32	24.96	-7.87
Vanguard Retirement 2060 Index	10.78	20.46	20.46	5.27	11.37	8.34	-	-17.07	16.77	17.18	25.36	-7.77
+/- Index	0.01	(0.28)	(0.28)	(0.35)	(0.45)	(0.37)	-	(0.39)	(0.33)	(0.85)	(0.40)	(0.10)
US Fund Target-Date 2060	68	47	47	41	41	11	N/A	25	77	41	56	30

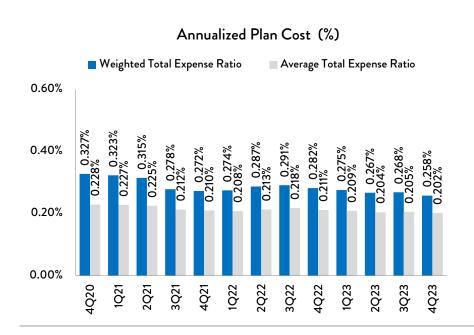
## **STATE OF NEVADA**

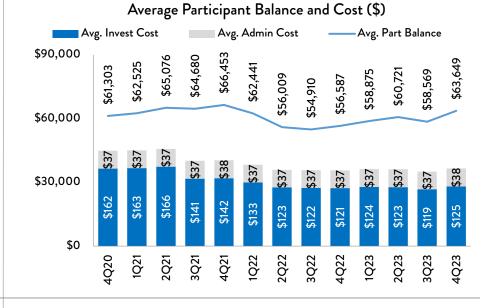
## **Combined Retirement Plans**

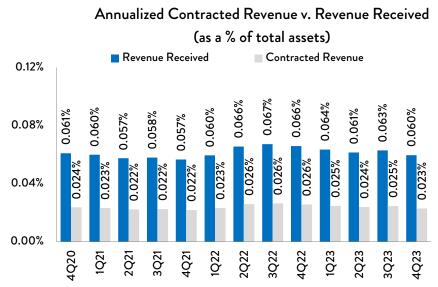
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	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2065	10.79	20.15	20.15	4.95	10.91	-	-	-17.39	16.46	16.17	24.96	-7.95
Vanguard Retirement 2065 Index	10.78	20.46	20.46	5.27	11.37	-	-	-17.07	16.77	17.18	25.36	-7.77
+/- Index	0.01	(0.31)	(0.31)	(0.32)	(0.46)	-	-	(0.32)	(0.31)	(1.00)	(0.39)	(0.18)
US Fund Target-Date 2065+	65	54	54	35	70	-	N/A	18	67	56	59	12
	QTR	YTD	1Yr	3Yr	5Yr	10Yr	15Yr	2022	2021	2020	2019	2018
Vanguard Target Retirement 2070	10.83	20.24	20.24				-	-				-
Vanguard Retirement 2070 Index	10.78	20.46	20.46	-	-	-	-	-	-	-	-	-
+/- Index	0.05	(0.22)	(0.22)	-	-	-	-	-	-	-	-	-
US Fund Target-Date 2065+	64	50	50	-	-	-	N/A	-	-	-	-	-

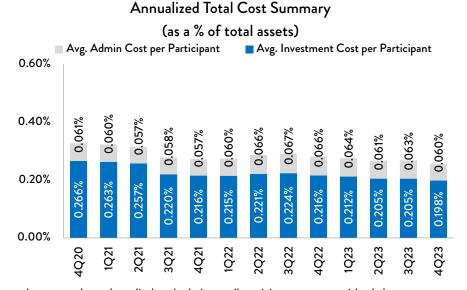
Section 4

Combined 457(b) DC Plans Fourth Quarter 2023









<sup>\*</sup>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.

## Annualized

		Quarter End			Est. Total Invest.	Est. Total Admin.
Fund	Ticker	Balance	Net Expense Ratio	Admin Fee	Cost	Cost
Voya Fixed Account	-	\$323,267,023	0.400%	0.06%	\$1,293,068	\$192,530
Vanguard Total Bond Market Index I	VBTIX	\$37,429,712	0.035%	0.06%	\$13,100	\$22,292
Sterling Capital Total Return Bond R6	STRDX	\$2,143,741	0.350%	0.06%	\$7,503	\$1,277
MFS Value R4*	MEIJX	\$21,896,523	0.390%	0.06%	\$85,396	\$13,041
Vanguard Institutional Index Instl Plus	VIIIX	\$158,305,092	0.020%	0.06%	\$31,661	\$94,283
JPMorgan Large Cap Growth R6	JLGMX	\$76,629,631	0.440%	0.06%	\$337,170	\$45,639
Vanguard Mid-Cap Value Index Adm	VMVAX	\$7,471,390	0.070%	0.06%	\$5,230	\$4,450
Vanguard Extended Market Index Instl Plus	VEMPX	\$106,640,243	0.040%	0.06%	\$42,656	\$63,512
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$22,347,425	0.070%	0.06%	\$15,643	\$13,310
Vanguard Instl Total Intl Stock Mkt Index Trust	-	\$47,301,995	0.080%	0.06%	\$37,842	\$28,172
American Funds EuroPacific Growth R6	RERGX	\$6,676,333	0.470%	0.06%	\$31,379	\$3,976
Vanguard Target Retirement Income Trust II	-	\$39,867,832	0.075%	0.06%	\$29,901	\$23,744
Vanguard Target Retirement 2020 Trust II	-	\$12,323,137	0.075%	0.06%	\$9,242	\$7,339
Vanguard Target Retirement 2025 Trust II	-	\$47,059,162	0.075%	0.06%	\$35,294	\$28,027
Vanguard Target Retirement 2030 Trust II	-	\$18,150,726	0.075%	0.06%	\$13,613	\$10,810
Vanguard Target Retirement 2035 Trust II	-	\$58,386,036	0.075%	0.06%	\$43,790	\$34,773
Vanguard Target Retirement 2040 Trust II	-	\$10,838,334	0.075%	0.06%	\$8,129	\$6,455
Vanguard Target Retirement 2045 Trust II	-	\$31,895,619	0.075%	0.06%	\$23,922	\$18,996
Vanguard Target Retirement 2050 Trust II	-	\$7,618,817	0.075%	0.06%	\$5,714	\$4,538
Vanguard Target Retirement 2055 Trust II	-	\$9,473,268	0.075%	0.06%	\$7,105	\$5,642
Vanguard Target Retirement 2060 Trust II	-	\$3,232,519	0.075%	0.06%	\$2,424	\$1,925
Vanguard Target Retirement 2065 Trust II	-	\$1,508,654	0.075%	0.06%	\$1,131	\$899
Vanguard Target Retirement 2070 Trust II	-	\$452,210	0.075%	0.06%	\$339	\$269
Self-Directed Brokerage Account	-	\$11,508,127	-	0.06%	-	\$6,854
TOTAL		\$1.062.422.E40	1		¢2 001 25 4	¢422.7E2

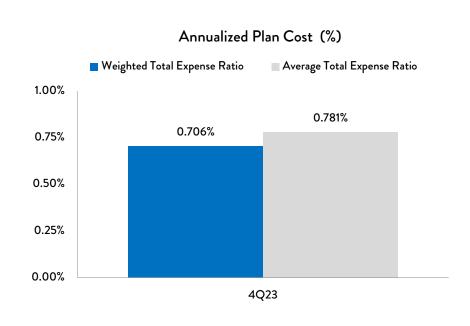
TOTAL \$1,062,423,549 \$2,081,254 \$632,753

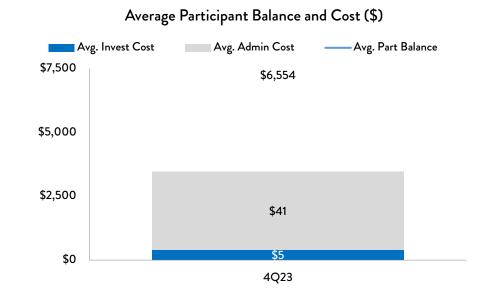
Plan Administration Cost	Quarter	Annualized
Plan Generated Revenue (\$41.00 per ppt with >\$1,000 bal) (est):	\$158,188	\$632,753
Contracted Revenue (\$14.50 per participant) (est):	\$60,777	\$243,107
Net Excess/(Deficit) (est):	\$97,412	\$389,646

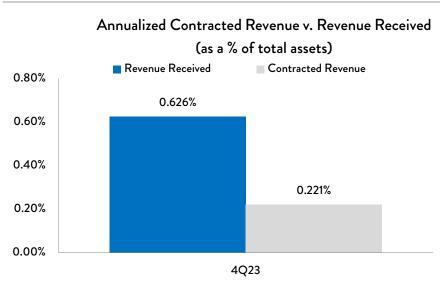
<sup>\*</sup>Revenue derived from funds credited to participant accounts in which they are held. For fee reporting purposes, the credit has been used to offset the reported fund expense ratio. An expense ratio of 0.40% was assumed for the Voya Fixed Account.

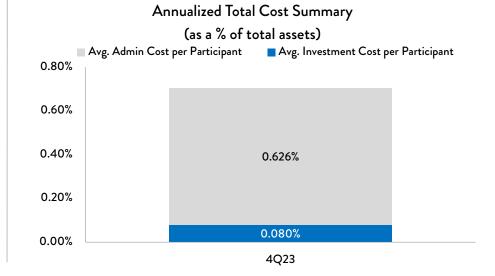
Fourth Quarter 2023

401(a) Plan









401(a) Plan

Fourth Quarter 2023

Annualized

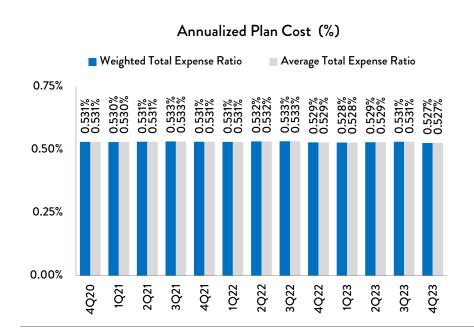
		Quarter End			Est. Total Invest.	Est. Total Admin.
Fund	Ticker	Balance	Net Expense Ratio	Admin Fee	Cost	Cost
Voya Fixed Account	-	\$0	0.400%	0.63%	\$0	\$0
Vanguard Total Bond Market Index I	VBTIX	\$0	0.035%	0.63%	\$0	\$0
Sterling Capital Total Return Bond R6	STRDX	\$0	0.350%	0.63%	\$0	\$0
MFS Value R4	MEIJX	\$0	0.540%	0.63%	\$0	\$0
Vanguard Institutional Index Instl Plus	VIIIX	\$0	0.020%	0.63%	\$0	\$0
JPMorgan Large Cap Growth R6	JLGMX	\$0	0.440%	0.63%	\$0	\$0
Vanguard Mid-Cap Value Index Adm	VMVAX	\$0	0.070%	0.63%	\$0	\$0
Vanguard Extended Market Index Instl Plus	VEMPX	\$0	0.040%	0.63%	\$0	\$0
Vanguard Mid-Cap Growth Index Adm	VMGMX	\$0	0.070%	0.63%	\$0	\$0
Vanguard Total Intl Stock Index Inv	VGTSX	\$0	0.170%	0.63%	\$0	\$0
American Funds EuroPacific Growth R6	RERGX	\$0	0.470%	0.63%	\$0	\$0
Vanguard Target Retirement Income	VTINX	\$0	0.080%	0.63%	\$0	\$0
Vanguard Target Retirement 2020	VTWNX	\$0	0.080%	0.63%	\$0	\$0
Vanguard Target Retirement 2025	VTTVX	\$6,554	0.080%	0.63%	\$5	\$41
Vanguard Target Retirement 2030	VTHRX	\$0	0.080%	0.63%	\$0	\$0
Vanguard Target Retirement 2035	VTTHX	\$0	0.080%	0.63%	\$0	\$0
Vanguard Target Retirement 2040	VFORX	\$0	0.080%	0.63%	\$0	\$0
Vanguard Target Retirement 2045	VTIVX	\$0	0.080%	0.63%	\$0	\$0
Vanguard Target Retirement 2050	VFIFX	\$0	0.080%	0.63%	\$0	\$0
Vanguard Target Retirement 2055	VFFVX	\$0	0.080%	0.63%	\$0	\$0
Vanguard Target Retirement 2060	VTTSX	\$0	0.080%	0.63%	\$0	\$0
Vanguard Target Retirement 2065	VLXVX	\$0	0.080%	0.63%	\$0	\$0
Vanguard Target Retirement 2070	VSVNX	\$0	0.080%	0.63%	\$0	\$0
TOTAL		\$6,554			\$5	\$41

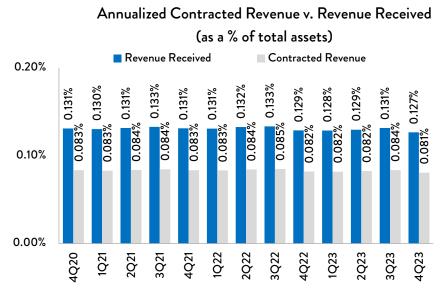
Plan Administration Cost	Quarter	Annualized
Plan Generated Revenue (\$41.00 per ppt with >\$1,000 bal) (est):	\$10	\$41
Contracted Revenue (\$14.50 per participant) (est):	\$4	\$15
Net Excess/(Deficit) (est):	\$7	\$27

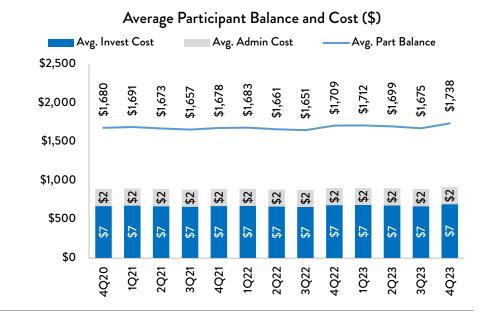
<sup>\*</sup>Revenue derived from funds credited to participant accounts in which they are held. For fee reporting purposes, the credit has been used to offset the reported fund expense ratio. An expense ratio of 0.40% was assumed for the Voya Fixed Account.

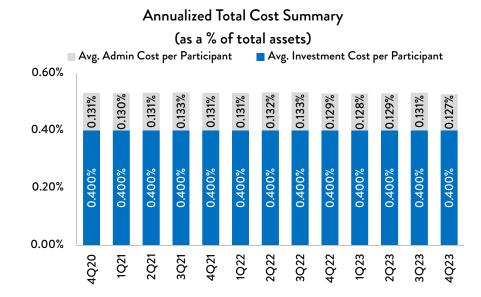
Fourth Quarter 2023

FICA Alternative OBRA Plan









## **STATE OF NEVADA**

## FICA Alternative OBRA Plan

## **PLAN FEE ANALYSIS**

Fourth Quarter 2023

## Annualized

Fund	Ticker	Quarter End Balance	Net Expense Ratio	Admin Fee
Voya Fixed Account - FICA	-	\$63,536,962	0.40%	0.13%
TOTAL		\$63,536,962		

Est. Total Invest.	Est. Total Admin.
Cost	Cost
\$254,148	\$80,425
\$254,148	\$80,425

Plan Administration Cost	Quarter	Annualized
Plan Generated Revenue (\$2.20 per participant) (est):	\$20,106	\$80,425
Contracted Revenue (\$1.40 per participant) (est):	\$12,795	\$51,180
Net Excess/(Deficit) (est):	\$7,311	\$29,246

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

Section 5

# (USD) Europacific Growth R6 American Funds

MSCI ACWI Ex USA

Growth NR USD Category Index

Growth

US Fund Foreign Large Morningstar Cat

Growth of \$10,000

American Funds Europacific Growth R6 19,438

Performance 01-31-2024	31-2024				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2022	-12.24	-14.65	-9.33	13.78	-22.72
2023	9.87	2.16	-6.33	10.37	16.05
2024		I	I	1	-0.09
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	6.30	-2.19	6.33	5.32	7.77
Std 12-31-2023	16.05		8.04	4.90	7.83
Total Return	6.30	-2.19	6.33	5.32	7.77
+/- Std Index	0.42	-3.32	1.01	1.12	
+/- Cat Index	1.97	0.93	0.57	0.34	
% Rank Cat	49	72	58	49	
No. in Cat	417	394	336	229	

1.68	1.68	30-day SEC Yield 12-31-23
		7-day Yield
Unsubsidized	Subsidized	

16.05 54.70

-0.09

54.65

NAV/Price

0.44

0.90

+/- Standard Index Total Return %

417

430

No. of Funds in Cat % Rank Cat +/- Category Index Performance Quartile (within category)

 $\Xi$ 

2.02

0.67

Investment Style Equity/Stocks %

2023

01-24

4

200 \$

Category Average 18,362Standard Index 16,621

96

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

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

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

		www.americanfunds.com.  Fees and Expenses  Sales Charges

Front-End Load % Deferred Load %	N N
Fund Expenses	
Management Fees %	0.42
12b1 Expense %	NA
Gross Expense Ratio %	0.47
Risk and Return Profile	

Fund Expenses			
Management Fees %			0.42
12b1 Expense %			NA
Gross Expense Ratio %			0.47
Risk and Return Profile			
	3 Yr	5 Yr	10 Yr
	394 funds	336 funds	229 funds
Morningstar Rating™	3 <b>★</b>	3 <b>★</b>	3★
Morningstar Risk	-Avg	Avg	Avg
Morningstar Return	Avg	Avg	Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	17.90	18.94	15.70
Mean	-2.19	6.33	5.32
Sharpe Ratio	-0.19	0.31	0.32
MPT Statistics	Standard Index		Best Fit Index Morningstar Gbl xUS Growth TME
			NR USD
Alpha	-3.06	8	0.52
Beta	1.06	8	1.02
R-Squared	93.33	33	95.79
12-Month Yield			1.98%
Potential Cap Gains Exp			28.78%

92 49.03 20.58 5.29 5.09	2013	Morningstar Medalist Rat Sold
47.09 -2.29 11.57 0.36 27	2014	Morningstar Medalist Rating  Gold  07-17-2023
89 45.32 -0.48 5.18 5.77 0.77 66	2015	
93 45.04 1.01 -3.48 0.89 20	2016	Analyst-Driven % 100.00 Data Coverage % 100.00
92 56.14 31.17 3.98 -0.84 44	2017	
44.99 -14.91 -0.71 -0.88 -58	2018	Morningstar Rating** *** 394 US Fund Foreign Large Growth
92 55.55 27.40 5.89 0.06 59	2019	Rating"
99 69.30 25.27 14.61 3.06 3.36 447	2020	
95 64.73 2.84 -4.99 -2.26 80	2021	Standard Index MSCI ACWI Ex USD
49.03 -22.72 -6.72 0.33 38	2022	Standard Index MSCI ACWI Ex USA NR USD
		· 5

Americas Greater Europe Greater Asia	Below B	Credit Quality Breakdown — AAA AAA AA AA BBB	MOT	Fixed-Income Style  Itd Mod Ext  PRIVATE THE PRIVATE T	Portfolio Analysis 12-31-2023 Asset Allocation % Cash US Stocks Non-US Stocks Bonds Other/Not Clsfd Total  Equity Style Portfolio St P/E Ratio T P/C Ratio T P/B Ratio T F/B Ratio T Geo Avg M \$mil
13.8 51.5 34.7		akdown —		Avg Eff Maturity Avg Eff Duration Avg Wtd Coupon Avg Wtd Price	Net % 3.10 2.59 93.89 0.00 0.42 100.00 Portfolio Statistics P/E Ratio TTM P/C Ratio TTM P/C Ratio TTM P/B Ratio TT
1.27 1.12 0.80	Rel Critical	Bond %			Long % Short % 3.69 0.58 2.59 0.00 93.89 0.00 0.00 0.43 0.01 100.60 0.60 Port Rel Rel Avg Index Cat 19,7 1.43 0.93 13,5 1.46 0.87 2.9 1.71 0.89 64104 1.41 0.99
		<b>3 1 )</b> : c	Sector Weightings		D ⊕ ① ① ① ⊕ ① ⊕ ① ⊕
<b>Defensive</b> Consumer Defensive Healthcare Utilities	Communication Services Energy Industrials Technology	Basic Materials Consumer Cyclical Financial Services Real Estate	htings		Share Holdings: Amount 377 Total i Amount 378 Total i Amount 378 Total i Afficial Novo No 4 mil Lvmh M 173 mil Taiwan i 4 mil ASML H 20 mil Airbus S 39 mil Canadiau 82 mil Reliance 125 mil Fortescu 13 mil Safran S 242 mil AlA Grou 75 mil Dariich i
<b>21.7</b> 9e 7.7 13.1 0.9	vices 3.8 7.1 15.9 16.6	9.5 9.5 12.4 12.5 0.5	Stocks %	MercadoLibre Inc Glencore PLC Flutter Entertainment PLC Shopify Inc Registered Shs -A- Sub	Holdings: 327 Total Stocks, 0 Total Fixed-Income, 3287 Tumover Ratio Novo Nordisk A/S Class B Lvmh Moet Hennessy Louis Vuitton SE Taiwan Semiconductor Manufacturing ASML Holding NV Airbus SE Canadian Natural Resources Ltd Reliance Industries Ltd Fortescue Ltd Safran SA AIA Group Ltd Daiichi Sankvo Co Ltd
<b>1.06</b> 0.98 1.36 0.31	0.69 1.24 1.18 1.25	1.26 1.14 0.59 0.25	Rel Std Index	1.51 1.45 1.41 1.29	Ner Assets % 4.95 2.59 2.45 2.33 2.31 1.86 1.86 1.85 1.55

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(000)		<b>Europacitic Growth Ro</b>		American Funds	
	07-17-2023	<b>€</b> 6010	Medalist Rating 100.00	Morningstar	
	100.00	Data Coverage % 394 US Func	100.00	Analyst-Driven %	
Growth	Foreign Large	394 US Fund	***	Analyst-Driven % Morningstar Rating™ Standard Index	
		USD	MSCI ACWI Ex USA NR MSCI ACWI Ex USA	Standard Index	
		Growth NR USD	MSCI ACWI Ex USA	Category Index	

Growth

US Fund Foreign Large Morningstar Cat

Growth

-			Manager: Multi		Operations
			Multiple		
Minimum IRA Purchase:	Min Auto Investment Plan:	Minimum Initial Purchase:	ISIN:	Ticker:	
\$25	\$250	\$250	US2987068218	RERGX	
	Total Assets:	Туре:	Incept	Purchase Constraints:	
	\$134,123.41 mil	MF	05-01-2009	Α	

# JPMorgan Large Cap Growth R6 (USD)

02-21-2023

Standard Index S&P 500 TR USD

Category Index

Morningstar Cat

Data Coverage % 1,116 US Fund 100.00 I arma Growth

OSD

: 4 

Growth of \$10,000

JPMorgan Large Cap Growth

Russell 1000 Growth TR US Fund Large Growth

Large Growth

Unsubsidized	Unsu	Subsidized	Sı		
	810	1039	1116	1198	No. in Cat
	4	4	<b>£</b>	41	% Rank Cat
	0.88	1.71	-2.44	-2.40	+/- Cat Index
	3.74	5.45	-3.40	11.77	+/- Std Index
16.22	16.36	19.75	7.59	32.59	Total Return
15.96	15.67	21.19		34.95	Std 12-31-2023
16.22	16.36	19.75	7.59	32.59	Load-adj Mthly
Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
4.34	1		1	1	2024
34.95	13.48	-3.64	13.04	9.19	2023
-25.21	3.59	-1.47	-18.40	-10.21	2022
Total %	4th Otr	3rd Otr	2nd Otr	1st Otr	Quarterly Returns
				-31-2024	Performance 01-31-2024

30-day SEC Yield 7-day Yield

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

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

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

# Fees and Expenses

Sales Charges Front-End Load % Deferred Load %
Fund Expenses
Management Fees %
12b1 Expense %
Property European Potion

Front-End Load % Deferred Load %	N N
Fund Expenses	
Management Fees %	0.45
12b1 Expense %	NA
Gross Expense Ratio %	0.52
Risk and Return Profile	

28.55%			12-Month Yield Potential Cap Gains Exp
96.05	.91	86.91	R-Squared
0.91	1.02	_	Beta
-1.71	-3.01	ယ်	Alpha
Best Fit Index Russell 1000 Growth TR USD	Russell	Standard Index	MPT Statistics
0.87	0.88	0.34	Sharpe Ratio
16.36	19.75	7.59	Mean
17.74	20.58	19.26	Standard Deviation
10 Yr	5Yr	3 Yr	
High	High	Avg	Morningstar Return
+Avg	Avg	-Avg	Morningstar Risk
5≯	5⋆	3 <b>★</b>	Morningstar Rating <sup>™</sup>
10 Yr 810 funds	5 Yr 1,039 funds	3 Yr 5 Yr 1,116 funds 1,039 funds	

1712   1710   1681	57 39	-0.45 -1.92 2.27		-2.56	32.01   34.94   36.08	99 98 98	2013 2014 2015				
31   1463	16 87	27 -8.81			)8   32.35	99	15 2016			<b>\{</b>	
1463   1363   1405   1360   1289   1237   1235   1200   1227	ω	8.16		16.54	38.85	99	2017				\
1405	22	2.08			34.07	100	2018				<b>\</b>
1360	4	3.00			42.03	97	2019				<b>}</b>
1289	œ	17.93			62.44	8 📗	2020				No.
1237	88	8. 8.		-9.92	64.84	99	2021				
1235	29	3.92			46.92	92	2022				
1200	85	-7.73		8.66	63.12	97	2023				
1227	l	1.85		2.66	65.86 4 34	I <b>  </b>	01-24	4 <sub>k</sub>	JOK		, , , , , , , , , , , , , , , , , , ,
No. of Funds in Cat	% Rank Cat	+/- Category Index	Performance Quartile (within category)	+/- Standard Index	NAV/Price	Investment Style Equity/Stocks %			+ ,00	- Standard Index	— Category Average

Portfolio Analysis 12-31-2023	12-31-2023				
Asset Allocation %	Net %	Long %		Short %	
Cash	2.70	2.70	0	0.00	
US Stocks	93.88	93.8	Φ	0.00	
Non-US Stocks	3.42	3.42	2	0.00	
Bonds	0.00	0.00	0	0.00	
Other/Not Clsfd	0.00	0.00	0	0.00	
Total	100.00	100.00	0	0.00	
Equity Style	Portfolio Statistics	Port	Rel	Rel	
Value Blend Growth	P/E Ratio TTM	4vg 34.3	1.42	1.10	
эбле	P/C Ratio TTM	24.1	1.46	<u>-</u>	
P!W	P/B Ratio TTM	9.6	2.29	1.20	
sus	Geo Avg Mkt Cap 360624	360624	1.43	0.82	
PI	SmII				

				_	 
			Ltd	Fixed	
			Mod	Fixed-Income Style	
			Ext	me St	
гом	beM	ηбiΗ		¥	llsm2
	Avg Wtd Price	Avg Eff Duration  Avg Wtd Coupon	Avg Eff Maturity		\$mil
					300024
					1.43 0.82
	I		1		0.82

Avg Eff Maturity  Avg Eff Maturity  Avg Eff Duration  Avg Wtd Coupon  Avg Wtd Price	Fixed-Income Style	me St	ě		
	Ltd Mod	Ē		Avg Eff Maturity	1
			біН	Avg Eff Duration	Ι
			Ч	Avg Wtd Coupon	I
мот			baM	Avg Wtd Price	
			γνοη		

0.68	0.4	Greater Europe
1.00	99.6	Americas
Rel Std Index	Stocks %	Regional Exposure
1		NR
1		Below B
1		В
1		BB
		BBB
1		A
1		AA
1		AAA
Bond %	Ī	Credit Quality Breakdown —

Ral Std Index	Starks %	Sector Weightings	S
1.77	Adobe Inc	2 mil	
1.98	Regeneron Pharmaceuticals Inc	2 mil	
2.06	Uber Technologies Inc	24 mil	
2.47	Tesla Inc	7 mil	
2.64	Broadcom Inc	2 mil	
2.67	Netflix Inc	4 mil	0.02
2.69	Mastercard Inc Class A	5 mil	0.00
2.69	JPMorgan Prime Money Market Inst	1,965 mil	(I)
3.78	Alphabet Inc Class C	20 mil	① ①
4.66	Eli Lilly and Co	6 mil	Cat Te
5.02	NVIDIA Corp	7 mil	[] { ⊕
5.18	Meta Platforms Inc Class A	11 mil	).00 •
5.31	Apple Inc	20 mil	0.00
6.97	Amazon.com Inc	34 mil	0.00
11.44	Microsoft Corp	22 mil	00.0
	42% Turnover Ratio		11-2023
%	70 Total Stocks, 4 Total Fixed-Income,	Þ	
Net Assets	Holdings:	Share Chg Share	)rt % Shar

		0 68 C	ļ	Rel Std Index	  -	  -	 	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<b>E</b>	 	   	B. B.	ح	Sector
Utilities	Healthcare	Consumer Defensive	Defensive	Technology	Industrials	Energy	Communication Services	Sensitive	Real Estate	Financial Services	Consumer Cyclical	Basic Materials	Cyclical	Sector Weightings
0.0	10.4	1.1	11.5	46.5	6.1	1.1	12.9	66.5	0.0	4.4	17.3	0.4	22,0	Stocks %
0.00	0.81	0.18	0.54	1.53	0.74	0.28	1.46	1.30	0.00	0.34	1.65	0.18	0.80	Rel Std Index

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lights Reserved. Unless otherwise provided in (1) include the confidential and proprietary be copied or redistributed, (4) do not constitute to be correct, complete or accurate. Except to be copied or the complete or accurate accurate in the copied some complete or accurate.		Growth	19.5 Years	Multiple	JPMorgan
n a separate agreement, you may use this report nformation of Morningstar, (2) may include, or be te investment advice offered by Morningstar, (5) ts otherwise required by law, Morningstar shall r d are as of the date written and are subject to of d are as of the date.		Minimum Initial Purchase:	ISIN:	Ticker:	Base Currency:
t only in the country in which its origina re derived from, account information pr ) are provided solely for informational in not be responsible for any trading deci- thange without notice. Investment rese-	I	: \$15 mil	US48121L8413	JLGMX	USD
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yses and it be verified by tell a security, related to, this orningstar, Inc.		\$80,315.73 mil	MF	11-30-2010	A

Greater Asia

0.0

# MFS Value R4 (USD)

Unsubsidized	Unsı	Subsidized	Sı		
	825	1074	1129	1215	No. in Cat
	37	47	86	59	% Rank Cat
1	0.43	0.68	0.14	-0.39	+/- Cat Index
	-3.38	-4.33	-1.62	-15.12	+/- Std Index
8.42	9.23	9.96	9.37	5.69	Total Return
8.43	8.68	11.53	1	8.17	Std 12-31-2023
8.42	9.23	9.96	9.37	5.69	Load-adj Mthly
Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
0.57		1	1		2024
8.17	9.50	-3.23	3.60	-1.46	2023
-5.90	13.58	-4.58	-9.91	-3.64	2022
Total %	4th Qtr	3rd Otr	2nd Otr	1st Otr	Quarterly Returns
				-31-2024	Performance 01-31-2024

# Performance Disclosure

1. Contractual waiver; Expires 12-31-2024 30-day SEC Yield 12-31-23

1.75

1.74

7-day Yield

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

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

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

## Front-End Load % Sales Charges Fees and Expenses Z

Deferred Load %			N
Fund Expenses			
Management Fees %			0.44
12b1 Expense %			NA
Gross Expense Ratio %			0.55
<b>Risk and Return Profile</b>			
	3 Yr	5 Yr	10 Yr
	1,129 funds 1,074 funds	1,074 funds	825 funds
Morningstar Rating™	3★	3⊁	4★
Morningstar Risk	-Avg	-Avg	-Avg
Morningstar Return	Avg	Avg	Avg

Fixed-Income Style

цвін beM

(1) (1) (1) (1)

5 mil 3 mil 6 mil 12 mil

Analog Devices Inc Accenture PLC Class A Lowe's Companies Inc

<b>Risk and Return Profile</b>			
	3 Yr 5 Yr 1,129 funds 1,074 funds	5 Yr 4 funds	10 Yr 825 funds
Morningstar Rating™	3★	3 <b>⊁</b>	4⊁
Morningstar Risk	-Avg	-Avg	-Avg
Morningstar Return	Avg	Avg	Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	15.75	17.18	14.51
Mean	9.37	9.96	9.23
Sharpe Ratio	0.48	0.52	0.59
MPT Statistics	Standard Index	Be Morning	Best Fit Index Morningstar US LM
Alpha	-0.19	BIG	-1.38
3eta	0.83		0.96
R-Squared	84.30		97.11
12-Month Yield			1.67%
otential Cap Gains Exp			45.93%

B BB BB

₿ AAA

Credit Quality Breakdown

Below B NR

Greater Asia

Greater Europe

Americas Regional Exposure

No. of Funds in Cat	1266 N	1217	1229	1207	1200	1209	1244	1260	1268	1378	1290	1213
% Rank Cat		74	52	55	39	9	88	30	52	12	2	13
+/- Category Index	0.47 +	-3.29	1.63	0.26	=======================================	3.54	-1.60	4.08	-3.20	3.29	-2.89	3.28
Performance Quartile (within category)												
+/- Standard Index		-18.12		-3.29	-14.49		-5.49	-4.09	2.18	-1.92	-3.12	3.42
NAV/Price Total Return %	47.52 N 0.57 T	47.25 8.17	47.47 -5.90	54.34 25.42	44.83 3.91	44.42 30.08	35.30 -9.87	40.56 17.74	36.05 14.14	32.79 -0.54	34.94 10.57	33.20 35.81
Equity/Stocks %		99	8	99	99	99	99	99	99	99	99	99
Investment Style		2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
	4k											
Standard Index 41,931	20k				1	}	Š		1	1		<b>\</b>
31,392 — Category Average 28,747	40k	<b>\\\</b>		<b>)</b>	\							
Growth of \$10,000  MFS Value R4												
		USD		_	-	- Ind	1,129 US Fund Large Value		<b>Data Coverage %</b> 100.00	<b>Data Co</b> 100.00	ಮ <b>=</b>	08-02-2023
Morningstar Cat TR US Fund Large Value	Category Index Russell 1000 Value TR	Cate Russ	SD *	Standard Index S&P 500 TR USD		Rating	Analyst-Driven % Morningstar Rating™ 100.00 ★★★★	- - - - - - - - - - -	st-Driven	<b>Analy:</b> 100.00	Morningstar Analys: Medalist Rating 100.00	Morningstar Medalist Rat

Portfolio Analysis 12-31-2023	IS 12-31-2023						
Asset Allocation %	Net %	Long %	Short %	Share Chg	Share	Holdings:	Net
Cash	0.63	0.63	0.00	since	Amount	/2 lotal Stocks , 0 lotal Fixed-Income,	
US Stocks	92.18	92.18	0.00	6207-11		12 % Tulliover nauto	
Non-US Stocks	7.19	7.19	0.00	1	IIM G	JPMorgan Chase & Co	
Bonds	0.00	0.00	0.00	1	5 mil	The Cigna Group	
Other/Not Clsfd	0.00	0.00	0.00	•	10 mil	10 mil Progressive Corp	
Total	100.00	100.00	0.00	①	13 mil	ConocoPhillips	
2	;			①	33 mil	33 mil Comcast Corp Class A	
Equity Style	Portiolio Statistics	Avg Index	x Cat	1	7 mil	Marsh & McLennan Companies Inc	
Tamping Compa	P/E Ratio TTM			①	3 mil	3 mil McKesson Corp	
1 96	P/C Ratio I IM	12.9 0.78		①	3 mil	Northrop Grumman Corp	
biN	Go Ma Mist Can		0 07	1	8 mil	Johnson & Johnson	
llsm2	\$mil	10040/ 0.40	0.0/	1	4 mil	4 mil Aon PLC Class A	
				①	5 mil	5 mil Union Pacific Corp	

kdown —	Bond % □ □ □ □ ※ ←	<b>Cyclical</b> Basic Materials Consumer Cyclical Financial Services Real Estate	34.9 3.5 3.6 25.5 2.3	1.69 1.69 0.34 2.01 0.96
	 {	Sensitive	34.7	0.68
		Communication Services	3.3	0.38
	_ _	Energy	5.9	1.55
		Industrials	16.8	2.07
Stocke %	Rol Otd Index	Technology	8.6	0.28
93.4	0.94	Defensive	30.4	1.44
n	12 74	Consumer Defensive	7.9	1.30
0 0.0	000 7	Healthcare	14.8	1.16

Growth	17.8 Years	Multiple	MFS	
Minimum Initial Purchase:	ISIN:	Ticker:	Base Currency:	
\$0	US55273H6356	MEIJX	USD	
Total Assets:	Туре:	Incept:	Purchase Constraints:	
\$57,192.18 mil	MF	04-01-2005	Þ	

Objective:

Tenure:

Manager: **Operations** Family:

4.54 2.87 2.83 2.72 2.55

2.27 2.24 2.24 2.18 2.17 2.17 2.10 2.09 2.09 2.02

Bloomberg US Agg

US Fund Intermediate Core Bond

Morningstar Cat

Category Index

Bond TR USD

60, 80, 60,

Growth of \$10,000

Sterling Capital Total Return Bond R6 12,385

# Return Bond R6 (USD) Sterling Capital Total

Performance 01-31-2024	31-2024				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2022	-6.15	-4.69	-4.42	1.57	-13.15
2023	3.01	-0.53	-3.08	6.70	5.97
2024				1	-0.09
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	2.68	-2.94	1.45		1.54
Std 12-31-2023	5.97		1.70		1.58
Total Return	2.68	-2.94	1.45	2.10	1.54
+/- Std Index	0.58	0.23	0.61	0.47	ı
+/- Cat Index	0.58	0.23	0.61	0.47	
% Rank Cat	34	38	13	8	
No. in Cat	474	425	386	277	

	nazinismo	nezinisansin
7-day Yield 02-06-24	0.44	I
30-day SEC Yield 12-29-23	4.19 <sup>1</sup>	4.10
1. Contractual waiver; Expires 01-31-2025		
Performance Disclosure		

0.44

0.18

+/- Category Index Performance Quartile (within category)

ည္သ

489

No. of Funds in Cat % Rank Cat 0.18

+/- Standard Index

9.38 0.44 5.97

9.34

-0.09

Total Return % NAV/Price 99

Fixed-Income/Bond %

nvestment Style

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

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

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

Front-End Load %	Sales Charges	Fees and Expenses	

Front-End Load % Deferred Load %	N N
Fund Expenses	
Management Fees %	0.25
12b1 Expense %	0.00
Gross Expense Ratio %	0.51

Gross Expense Ratio %			0.51
Risk and Return Profile			
	3 Yr	5 Yr	10 Yr
	eniini 674	on inina	cum ///
Morningstar Rating™	4*	4⋆	5₽
Morningstar Risk	-Avg	Avg	-Avg
Morningstar Return	+Avg	+Avg	High
	3 Yr	5 Yr	10 Yr
Standard Deviation	6.85	6.14	4.68
Mean	-2.94	1.45	2.10
Sharpe Ratio	-0.80	-0.07	0.17
MPT Statistics	Standard Index		Best Fit Index Morningstar US Core Bd TR USD
Alpha	-0.15	15	-0.01
Beta	0.94	94	0.95
R-Squared	98.28	28	98.39
12-Month Yield			3.65%
Potential Cap Gains Exp			-17.41%

888

 $^{\triangleright} \not \geq$ 

Greater Europe Greater Asia

Below B NR

Regional Exposure

Stocks %

Americas

1.05 0.03	2013 2014		Morningstar Analyst-Driven % Morningstar Rating Standar Medalist Rating 10.00 ****  Neutral Data Coverage % 425 US Fund 12:31-2023 100.00 Bond Bond
0.54 -0.01 -0.01	2015		Analyst 10.00  Data Co 100.00
3.75	2016		returns. Please rea Analyst-Driven % 10.00 Data Coverage % 100.00
4.33 0.79	2017		read discle
10.22 -0.27 -0.28 -0.28	2018		disclosure for more Morningstar Rating **** 425 US Fund Intermediate Core Bond
10.82 9.37 0.65 0.65 17	2019		I disclosure for more in  Morningstar Rating**  ****  425 US Fund Intermediate Core Bond
11.35 9.35 1.84 1.84 1.84 1.84	2020		Standa Standa Bloom Bond
10.87 -1.12 0.42  0.42  0.42  23 423	2021		ormation.  Standard Index Bloomberg US Agg Bond TR USD
9.18 -13.15 -0.14 -0.14 -0.14 40 453	2022	<b>{</b>	Agg

2023

01-24

4

200 \$

Category Average 11,543Standard Index 11,690

Credit Quality Br		Fixed-Income Style	Value Blend Growth	Portfolio Analys Asset Allocation % Cash US Stocks Non-US Stocks Bonds Other/Not Cisfd Total
Credit Quality Breakdown 12:31-2023 AAA	мод	Avg Eff Maturity Avg Eff Duration Avg Wtd Coupon Avg Wtd Price	P/E Ratio TTM P/B Ratio TTM Geo Avg Mkt Cap \$mil	<u>s.</u>
			Avg Index	58 00 42
Bond % 39.60		8.85 6.21 4.03 95.04	25	Short % 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Basic Materials  Consumer Cyclical	Sector Weightings	① ① ① 12 mil 12	17 mil 17 mil 16 mil 13 mil	Share Chg Share since Amount 11-2023 195 mil
erials —	gs Stocks %	nil Federal Home Loan Mortgage Corp. mil Government National Mortgage Assoc mil Federal Home Loan Mortgage Corp. 4% mil FORD CREDIT AUTO OWNER TRUST 1.53% mil Fnma Pass-Thru I 3.5%	nil Fnma Pass-Thru I nil Federal Home Loan Mortgage Corp. 5 nil HERTZ VEHICLE FINANCING III LLC 1. nil Fnma Pass-Thru I	Share Holdings: mount 0 Total Stocks, 312 Total Fixed-Income, 48% Tumover Ratio 48% Tumover Ratio 5 mil United States Treasury Notes 4.125% 9 mil United States Treasury Bonds 2.5% 5 mil United States Treasury Notes 2.625% 15 mil United States Treasury Notes 2.625% 10 mil Fnma Pass-Thru I 6% 11 mil ONEMAIN FINANCIAL ISSUANCE TRUST 1
	Rel Std Index	0.87 0.84 0.80 0.77 0.75	1.20 1.19 1.01 1.07 0.97 STR 0.92	Net As

	l	l		Rel Std Index	0.00	0.00	0.12	0.03	12.25	12.92	35.08	39 60	Donal o/		95.04
▼ Utilities	◆ Healthcare	Consumer Defensive	→ Defensive	■ Technology	ndustrials	<b>♦</b> Energy	Communication Services	∨ Sensitive	Real Estate	Financial Services	Consumer Cyclical	Basic Materials	∿ Cyclical	Sector Weightings	→ 12 mil Fnma Pass-Thru l 3.5%
l	l	I	I		I	I		I	1	l	I	I	I	Stocks % Re	
1			I					I	1			1	I	Rel Std Index	0.75

Return	Ster
	Sterling
ond I	Capita
<b>R6 (U</b>	
ISD)	otal

Morningstar Analyst-Driven % Morningstar Rating ™ 10.00 ★★★★
Neutral Data Coverage % 425 US Fund 12-31-2023

**Data Coverage %** 425 US Fund 100.00 Intermediate

Intermediate Core Bond

Bond TR USD

Standard Index

Bloomberg US Agg

Bond TR USD Bloomberg US Agg

Category Index Core Bond US Fund Intermediate Morningstar Cat

			BOILD		
Operations					
Family:	Sterling Capital Funds	Ticker:	STRDX	Incept:	02-01-2018
Manager:	Multiple	ISIN:	US85918D6242	Туре:	MF
Tenure:	16.1 Years	Minimum Initial Purchase:	\$10 mil	Total Assets:	\$1,453.96 mil
Objective:	Growth and Income	Min Auto Investment Plan:	\$10 mil		
Base Currency:	USD	Purchase Constraints:	D		

# (USD) Market Index InstlPlus Vanguard Extended

Performance 01-31-2024	-31-2024				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2022	-9.33	-20.67	-2.73	5.11	-26.45
2023	5.85	6.46	-3.34	15.13	25.42
2024	I	1	I	1	-2.39
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	10.47	-0.52	8.97	8.51	9.85
Std 12-31-2023	25.42		11.93	8.57	10.12
Total Return	10.47	-0.52	8.97	8.51	9.85
+/- Std Index	-10.35	-11.51	-5.32	-4.10	
+/- Cat Index	3.77	-6.03	-1.10	-0.97	
% Rank Cat	16	99	68	55	
No. in Cat	418	382	359	246	

2013

2014

2015

2017

2018

2019

## 30-day SEC Yield 02-05-24 7-day Yield Subsidized 1.23

Unsubsidized

38.43 154.84

164.36

156.89

179.47 16.18

209.16 18.13

186.80

235.94 28.07

307.8

100

100

100

98

97

97

98 2016

6.04

-6.09 7.60

-4.62 -3.23

4.22

-3.70

-4.96-9.35

-3.42

1.19

3.67

-5.62

-0.79

-0.39

-0.29

-2.48

2.38

29

59

45 432

427

464 33

36

# Performance Disclosure

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

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

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

# Fees and Expenses

# Front-End Load % Sales Charges

Deferred Load %

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# **Risk and Return Profile** 0.04 0.03

-3.83%			Potential Cap Gains Exp
1.31%			12-Month Yield
97.65		78.70	R-Squared
0.98		1.08	Beta
3.38		-11.03	Alpha
Brd Grt Ext TR USD	Brd Grt		
Best Fit Index		Standard Index	MPT Statistics
0.45	0.39	-0.04	Sharpe Ratio
8.51	8.97	-0.52	Mean
19.64	23.93	21.37	Standard Deviation
10 Yr	5Yr	3 Yr	
Avg	-Avg	Low	Morningstar Return
+Avg	High	+Avg	Morningstar Risk
3★	2★	<b>→</b>	Morningstar Rating <sup>™</sup>
246 funds	359 funds	382 funds 39	
10 Yr	5 Yr	3 Yr	

Below B NR

ВВ

BBB

 $\mathbb{R}$ ΑA

Credit Quality Breakdown

Greater Asia

Greater Europe Americas Regional Exposure

Stocks %

98.9

0.9

S Bronze Data Coverage %	Medalist Rating <sup>™</sup> 100.00	Morningstar Analyst-Driven %
Data Coverage % 382 US Fund Mid-	*	Analyst-Driven% Morningstar Rating™
	SS	Š







## &P 500 TR USD tandard Index

# OSD

## Russell Mid Cap TR Category Index

# US Fund Mid-Cap Blend Morningstar Cat

407     420   431	1 — 7 —	15.14 -10.10 -9.14 8.19 -0.96		13.84 -16.23 -8.34 -0.87 -4.07	32.24   12.48   -26.45   25.42   -2.39	307.84 342.27 248.85 307.68 300.33	100 97 97 98 —	2020 2021 2022 2023 01-24	
No. of Funds in Cat	% Rank Cat	+/- Category Index	Performance Quartile (within category)	+/- Standard Index	Total Return %	NAV/Price	Investment Style Equity/Stocks %		80k Growth of \$10,000 60k — Vanguard Extended Market Index InstIPlus 30,756 Category Average 27,770 Standard Index 41,331

Portfolio Analysis 12-31-2023	is 12-31-2023						
Asset Allocation %	Net %	Long %	Short %	Share Chg	Share	Holdings:	Net Assets
Cash	2.21	2.21	0.00	since	Amount	3,553 Total Stocks , 0 Total Fixed-Income,	%
US Stocks	96.33	96.33	0.00	11-2023	1	I w luniover natio	0
Non-US Stocks	1.47	1.47	0.00	<b>①</b>	5 mil	Snowflake Inc Urdinary Shares - Cl	0.95
Bonds	0.00	0.00	0.00	<b>⊕</b>	3 mil	CrowdStrike Holdings Inc Class A	0.86
Other/Not Clsfd	0.00	0.00	0.00	<b>①</b>	3 mil	Workday Inc Class A	0.85
Total	100.00	100 00	0	<b>⊕</b>	10 mil	KKR & Co Inc Ordinary Shares	0.82
2				•	13 mil	Marvell Technology Inc	0.78
Equity Style	FORIDITO SIBILSHES	Avg Index	Cat	•	8 mil	Block Inc Class A	0.64
Danoi Diago	P/E Ratio TTM	15.8 0.65	0.98	<b>⊕</b>	6 mil	Apollo Global Management Inc Class	0.61
961	P/C Ratio TTM			<b>①</b>	4 mil	Cheniere Energy Inc	0.61
P!W	P/B Ratio I IM			•	3 mil	Ferguson PLC	0.59
Small	\$mil	0.00	0.00	<b>⊕</b>	2 mil	Atlassian Corp A	0.55
				•	4 mil	Datadog Inc Class A	0.55
Fixed-Income Style	Ava Eff Maturity			<b>①</b>	29 mil	Palantir Technologies Inc Ordinary	0.49
Ltd Mod Ext	Avg Eff Duration			•	7 mil	The Trade Desk Inc Class A	0.48
и́рі́Н	Avg Wtd Coupon			•	4 mil	DoorDash Inc Ordinary Shares - Cla	0.45
beM	Avg Wtd Price			•	3 mil	Coinbase Global Inc Ordinary Share	0.44

1	<ul> <li>3 mil Coinbase Global Inc Ordinary Share</li> </ul>	nc Ordinary Share	0.44
	Sector Weightings	Stocks %	Rel Std Index
	Դ Cyclical	36.9	1.34
Bond %	Basic Materials	3.9	1.89
	Consumer Cyclical	11.1	1.06
	Financial Services	15.1	1.19
I	Real Estate	6.7	2.82
	✓ Sensitive	46.6	0.91
1	■ Communication Services	4.3	0.48
	★ Energy	4.5	1.19
	Industrials	15.6	1.92
Rai Std Inday	Technology	22.2	0.73
1 00	→ Defensive	16.5	0.78
1 77	Consumer Defensive	3.1	0.51
3 37	♣ Healthcare	11.7	0.91
0.00	Utilities	1.7	0.78

perations					
amily:	Vanguard	Base Currency:	USD	Purchase Constraints:	I
/anager:	Multiple	Ticker:	VEMPX	Incept:	01-14-2011
enure:	6.3 Years	ISIN:	US9229083715	Туре:	MF
bjective:	Growth	Minimum Initial Purchase:	\$100 mil	Total Assets:	\$94,720.45 mil

Far Far Ob

# Vanguard Institutional Index Instl PI (USD)

Morningstar Analyst-Driven % Morningstar Rating Medalist Rating 100.00 \*\*\*\*\*

3 Gold Data Coverage % 1,302 US Fund

S&P 500 TR USD Standard Index

Russell 1000 TR USD Category Index

US Fund Large Blend Morningstar Cat

Unsubsidized	Unsu	Subsidized	Sı		
	896	1188	1302	1431	No. in Cat
	8	20	25	22	% Rank Cat
	0.28	0.29	1.19	0.56	+/- Cat Index
	-0.01	-0.01	-0.02	-0.02	+/- Std Index
8.51	12.60	14.28	10.97	20.80	Total Return
8.47	12.02	15.67		26.26	Std 12-31-2023
8.51	12.60	14.28	10.97	20.80	Load-adj Mthly
Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
1.68					2024
26.26	11.68	-3.27	8.74	7.49	2023
-18.13	7.55	-4.89	-16.11	-4.61	2022
Total %	4th Otr	3rd Otr	2nd Otr	1st Otr	Quarterly Returns
				-31-2024	Performance 01-31-2024

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

(if applicable) Morningstar metrics.

30-day SEC Yield 02-05-24

1.40

1.45

7-day Yield

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

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

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

₹ Z

Morningstar Risk	Morningstar Rating <sup>™</sup>		Risk and Return Profile	Gross Expense Ratio %	12b1 Expense %	Management Fees %	Fund Expenses	
Avg	<b>4★</b>	3 Yr 302 funds						
Avg	4 <b>★</b>	3 Yr 5 Yr 1,302 funds 1,188 funds						
Avg	5★	10 Yr 896 funds		0.02	NA	0.02		

Fixe

1.44% 59.50%			12-Month Yield Potential Cap Gains Exp
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
0.77	0.71	0.53	Sharpe Ratio
12.60	14.28	10.97	Mean
15.12	18.28	17.51	Standard Deviation
10 Yr	5 Yr	3 Yr	
High	+Avg	+Avg	Morningstar Return
Avg	Avg	Avg	Morningstar Risk
5 <b>⊁</b>	4*	4⊁	Morningstar Rating™
896 funds	8 funds	1,302 funds 1,188 funds	
10 Yr	54	3 Yr	

Cred

No. of Funds in Cat	1511	1430	1358	1382	1363	1387	1402	1396	1409	1606	1568	1559
% Rank Cat	1	26	27	23	36	23	25	28	26	20	18	41
+/- Category Index	0.28	-0.27	1.00	2.23	-2.56	0.06	0.38	0.13	-0.10	0.47	0.44	-0.75
Performance Quartile (within category)												
+/- Standard Index	0.00	-0.02	-0.02	-0.02	0.01	0.00	-0.02	-0.02	-0.01	0.01	-0.01	-0.02
Total Return %	1.68			28.69	18.41	31.48	-4.41		11.95			32.37
NAV/Price	400.07	393.47		331.48 405.80 321.62	331.48	290.25	227.57   290.25	243.48	203.84	186.63	188.68	169.28
Investment Style Equity/Stocks %		100	100	100	100	100	<b>1</b> 00	100	100	100	100	100
	01-24	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
	4 <del>k</del>											
41,931	10k										•	<b>\</b>
Category Average 33,993 Standard Index	20k				1					}		
41,881	40k			1	<u>\</u>							
Growth of \$10,000  - Vanguard Institutional Index	90k											
		_		=		Ind	Data Coverage % 1,302 US Fund 100.00 Large Blend	% 1,30 Lar	overage	<b>Data Co</b> 100.00	- 14 <b>D</b>	<b>Gold</b> 02-02-2024
יים במומר במומר		1100	00		2							

Portfolio Analysis 12-31-2023	<b>is</b> 12-31-2023						
Asset Allocation %	Net %	Long %	Short %	Share Chg	Share	Holdings:	Net Assets
Cash	0.15	0.15	0.00	SINCE	Amount	503 lotal Stocks , 0 lotal Fixed-Income,	%
US Stocks	99.29	99.29	0.00	11-2023	:	3% Turnover Rauo	1
Non-US Stocks	0.57	0.57	0.00	①	9/ mil	Apple Inc	20.7
Bonds	0.00	0.00	0.00	1	49 mil	Microsoft Corp	6.97
Other/Not Clsfd	0.00	0.00	0.00	1	60 mil	Amazon.com Inc	3.45
Total	100.00	100.00	0	1	16 mil	NVIDIA Corp	3.05
				1	39 mil	Alphabet Inc Class A	2.06
Equity Style	Portiolio Statistics	Avg Index	Cat	1	15 mil	Meta Platforms Inc Class A	1.96
e como	P/E Ratio TTM	23.6 0.98	1.04	1	33 mil	Alphabet Inc Class C	1.75
96.	P/C Ratio TTM	16.4 0.99		1	18 mil	Tesla Inc	1.71
ÞiM	P/B Ratio I IM	4.2 1.00		1	12 mil	Berkshire Hathaway Inc Class B	1.62
llem2	\$mil	41/21 0.30	0.00	①	19 mil	19 mil JPMorgan Chase & Co	1.23
				1	3 mi	3 mil Broadcom Inc	1.22

	мод	рөүү	чбін	Mod Ext	d-Income Style		III.
		Avg Wtd Price	Avg Eff Duration				6
	Se	 (I)	 (1) (1)	 D (T		) :	(
• Cvclical	Sector Weightings	) 27 mil		5 <u>Bi</u>		ည <u>အ</u>	`

Exxon Mobil Corp Visa Inc Class A

UnitedHealth Group Inc Eli Lilly and Co

1.22 1.21 1.16 1.04 1.00

Jit Quality Breakdown — ∆				Mod Ext	d-Income Style	
eakdown —	мод	Avg Wtd Price	Avg Eff Duration  Avg Wtd Coupon		yle	
Bond %		I		1		
<b>1.</b> 0 8 <b>2</b> ∓ 0 8 <b>2</b>	Sector \	1	① ①	D (1	) (	Î

1.05	2.3	Utilities		ć
0.99	12.7	<ul><li>Healthcare</li></ul>	1 00	0.0
1.00	6.1	Consumer Defensive	1.01	0.5
1.00	21.1	→ Defensive	1.00	99.4
0.98	29.8	Technology	Rel Std Index	Stocks %
1.03	8.4	Industrials	1	
1.02	3.9	Energy		
0.97	8.6	Communication Services		
0.99	50.7	✓ Sensitive		
1.06	2.5	Real Estate	1	
0.99	12.5	Financial Services		
1.05	11.0	Consumer Cyclical		
1.06	2.2	Basic Materials	8	
1.02	28.2	ე⊾ Cyclical	Dond %	
Rel Std Index	Stocks %	Sector Weightings		

Below B NR

Greater Asia

Greater Europe Americas Regional Exposure B BB BB

©2024 Morningstar. A opinions contained her Morningstar, (3) may n and (6) are not warran information, data, ana including, but not limit or accompanied by a p	Objective:	Tenure:	Manager:	Family:
Ill flights Reserved. Unless otherwise provided rean (1) include the confidential and proprisely rean (1) include the confidential and proprisely of the copied or redistributed. (4) do not constitute red to be confrost, complete or accurate. Except yease or optimors or their use. Optimors sepress ted to, Morningstar Research Services LLC, regi- prospectus, or equivalent, and disclosure statem	Growth and Income	6.3 Years	Multiple	Vanguard
©2024 Morningstar. All Rights Reserved. Unless otherwise provided in a separate agreement, you may use this report only in the copinions contained herein (1) include the confidential and proprietary information of Morningstar. (2) may include, or be derived from Morningstar. (3) may not the copied or redistributed. (4) do not constitute investment advice affered by Morningstar. (3) may provided and (6) are not warranted to be correct, complete or accurate. Except as otherwise required by law. Morningstar shall not be respondent of the date white and are subject to change without including, but not inflated to. Morningstar Research Services L.C. registered with an all operaned by the U.S. Securities and Exchange or accompanied by a prospectus, or equivalent, and disclosure statement. Please see important disclosures at the end of this report	Minimum Initial Purchase:	ISIN:	Ticker:	Base Currency:
t only in the country in which its one derived from, account informat have provided solely for informating the responsible for any tradiny thangs without notice. Investigation of Exchange Commission. This of this report.	: \$100 mil	US9220402096	VIIIX	USD
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nalyses and mot be verified by more the verified by or sell a security, or related to, this if wormingster, Inc. It must be preceded	\$269,620.84 mil	MF	07-07-1997	I

Operations



# Vanguard Institutional Total International Stock Market Index Trust

International stock fund

## Fund facts

2069	06/24/16	\$26,317 MM	4 5	ω	2	_
number	date	assets	ightarrow HigI		$ \hat{\uparrow}$	Low
Fund	Inception	Total net			level	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

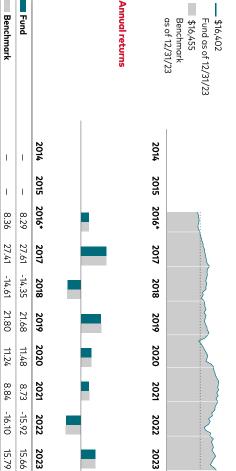
The trust portfolio employs an indexing investment approach designed to track the performance of the FTSE Global All Cap ex US Index, a free-float-adjusted

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, 2023



# **Total returns**

Periods ended December 31, 2023

48

	Quarter	Year to date	One year	Three years	Five years	Since inception
Fund	9.98%	15.66%	15.66%	1.88%	7.48%	7.29%
Benchmark	9.77%	15.79%	15.79%	1.88%	7.46%	I

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

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

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

# Market allocation-stocks



5.8

4.8

<sup>\*</sup> Partial return since fund started, June 24, 2016.

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

# Vanguard Institutional Total International Stock Market Index Trust

# International stock fund

# Ten largest holdings\*

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

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

Top 10 as % of total net assets

# **Sector Diversification**



Technology

Financials



ω. 3.5 3.9

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.

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Plain talk about risk

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

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

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

Currency risk: The chance that the value of a foreign investment, measured in U.S. dollars, will decrease because of unfavorable changes in currency exchange rates

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

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

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

49

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

Lenoillance of Street	4707-1C				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2022	-12.32	-21.19	-2.58	5.69	-28.84
2023	8.74	5.69	-5.28	13.11	23.14
2024	1	1		1	-1.46
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	11.39	1.61	10.99	10.19	12.07
Std 12-31-2023	23.14		13.70	10.12	12.29
Total Return	11.39	1.61	10.99	10.19	12.07
+/- Std Index	-9.43	-9.38	-3.31	-2.43	
+/- Cat Index	-3.75	0.37	-0.26	-0.57	1
% Rank Cat	49	జ	37	35	
No. in Cat	553	523	494	396	

	0	
0 71	0.72	30-day SFC Yield 02-05-24
1	I	7-day Yield
Unsubsidized	Subsidized	

32.22 38.83

13.48 43.72

21.83 54.96

33.86 68.34

42.94

45.46

51.48

109.55 20.48 -8.23

93.15

100

99

100

100

100

100

100

100

100

100

99

2013

2014

2015

2016

2017

2018

2019

2021

2022

01-24

-0.17

-0.21

-2.36 -0.98

-5.21 6.75

0.00

-1.22 -5.60

2.37

16.08 34.48 91.26

-10.73 -28.84 77.37

-3.15 23.14 94.53

-3.14 -1.46

# Performance Disclosure

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

-3.52

-0.78

-0.58

-3.44

-0.85

-1.61

42

83

5

40

749

733

644

617 65

605 46

1.58 5

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

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

US Stocks Non-US Stocks

Net % 0.30 98.24 1.45 0.00 0.00

4 mil 2 mil

Arista Networks Inc Amphenol Corp Class A Cash

Asset Allocation %

Portfolio Analysis 12-31-2023

Bonds

Other/Not Clsfd

Total

100.00

# Sales Charges

Front-End Load %

Z

Bleno

гэгдө

P/E Ratio TTM **Portfolio Statistics** 

biM

Geo Avg Mkt Cap \$mil

P/C Ratio TTM P/B Ratio TTM

**Equity Style** 

# Fees and Expenses

Deferred Load %
Fund Expenses
Management Fees %
12b1 Expense %
Gross Expense Ratio %

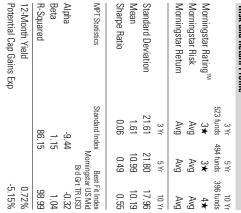
## Morningstar Rating™ Morningstar Risk Risk and Return Profile 523 funds Avg **3**⊁ 3 ≺ 494 funds Avg 5 Yr **¾** 0.07 0.06 Κ

Fixed-Income Style

ЧбіН

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

baM



Below B

 $\frac{1}{8}$ 

Regional Exposure

Stocks %

99.7 0.0 0.3

Utilities

0.6

0.26

BB

BBB

₽ AA Credit Quality Breakdown

# Morningstar Analyst-Driven % Morningstar Rating ™ Medalist Rating ™ 100.00 ★★★★ ■ Silver Data Coverage % 523 US Fund Mid-01-11-2024 **Data Coverage %** 100.00





# S&P 500 TR USD





TR USD

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

10k	!	20k	ģ	401	: 69 X	: : 8 8 8
41,931	- Standard Index	— Category Average 31 ns?	34,154	Index Admiral	Vanguard Mid-Cap Growth	Growth of \$10,000

		#	
NAV/Price	Investment Style Equity/Stocks %		



# +/- Category Index







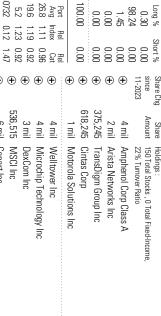


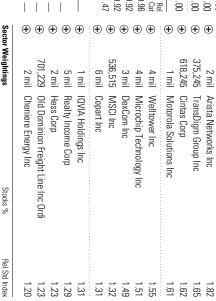


Short % 0.00	618
	604
- G	588
Share Amount	586
Holdings: 150 Total Stocks, 0	553
Holdings : 150 Total Stocks , 0 Total Fixed-Incom 22%, Turnover Rafio	560
l Fixed-Income,	No. of Funds in Cat

Net Assets

1.84





	Sector Weightings	Stocks %	Rel Std Index
2	Դ Cyclical	24.3	0.88
%   	★ Basic Materials	2.4	1.17
	Consumer Cyclical	8.7	0.83
	Financial Services	6.1	0.48
ı	Real Estate	7.1	2.99
1	∨ Sensitive	60.3	1.18
ı	■ Communication Services	5.6	0.63
1	★ Energy	5.8	1.53
I	ndustrials	17.9	2.20
Rol Std Index	Technology	30.9	1.01
1 00	→ Defensive	15.4	0.73
0 00	Consumer Defensive	1.9	0.31
6 44	◆ Healthcare	12.9	1.01
		0 6	9c 0

Operations	
Family:	Vanguard
Manager:	Multiple

Greater Asia Greater Europe Americas

Growth	2.6 \	Multiple	Vang	
νth	2.6 Years	iple	Vanguard	

Tenure:

Objective:

nimum Initial Purchase:	N:	ker.	se Currency:	
\$3,0	<b>esn</b>	≦	JSN	

M: USI Ba

	USD
	VMGMX
	US9219377283
chase:	\$3,000

VMGMX	
US9219377283	
\$3,000	

Purchase Constraints

09-27-2011

analyses and sinnot be verified by or sell a security.	
MORNINGSTAR®	

\$22,715.15 mil

Performance 01-31-2024 100k	01-11-2024 100.00 Cap Value		Callud Medalist Rating 100.00 ★★★★ S&P 500 TR USD F	Vancuard Mid-Can Value Morningstar Analyst-Driven % Morningstar Rating "Standard Index Category In	
100k		TR USD	&P 500 TR USD Russell Mid Cap Value	tandard Index Category Index	
Growth of \$10,000			'alue US Fund Mid-Cap Value	Morningstar Cat	

Unsubsidized	Unsı	Subsidized	SL		
	277	363	383	397	No. in Cat
	33	55	64	70	% Rank Cat
	0.35	0.28	0.90	-1.50	+/- Cat Index
1	-4.01	-5.41	-2.29	-19.90	+/- Std Index
11.62	8.60	8.89	8.69	0.92	Total Return
11.84	8.49	11.31		9.76	Std 12-31-2023
11.62	8.60	8.89	8.69	0.92	Load-adj Mthly
Incept	10 Yr	5 Yr	3 Yr	1 Yr	Trailing Returns
-1.52				1	2024
9.76	11.51	-4.85	3.83	-0.36	2023
-7.90	12.11	-5.55	-13.05	0.04	2022
Total %	4th Otr	3rd Otr	2nd Otr	1st Otr	Quarterly Returns
				-01-202 <del>+</del>	I GITOILIGITE OI -01-2024

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

4.20 25 415

30-day SEC Yield 02-05-24

2.28

2.25

37.66 41.30

100

2013

5.27

7-day Yield

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

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

Fees and Expenses

## Management Fees % Fund Expenses Front-End Load % Sales Charges Gross Expense Ratio % 12b1 Expense % Deferred Load % 0.06 0.07 K ĸ Z

nisk allu neturii Prollie			
	3 Yr 383 funds	5 Yr 363 funds	10 Yr 277 funds
Morningstar Rating™	3★	3★	<b>4★</b>
Morningstar Risk	Avg	Avg	-Avg
Morningstar Return	Avg	Avg	+Avg
	3 Yr	5Yr	10 Yr
Standard Deviation	18.81	21.19	17.18
Mean	8.69	8.89	8.60
Sharpe Ratio	0.40	0.41	0.49
MPT Statistics	Standard Index	dex Be Mornings	Best Fit Index Morningstar US Mid
		Brd	Brd Val TR USD
-		5	2

-0.77 11 460	46.30 13.98 0.30	2014	1
2.98 17 471	44.54 -1.80 -3.18	2015	
-4.74 71 399	50.31 15.26 3.30	2016	N C
3.70 13 405	57.74 17.04 -4.79	2017	Сар
-0.13 45 417	49.33 -12.42 -8.04	2018	Cap Value
0.93 32 422	61.79 27.99 -3.49	2019	<b>}</b>
-2.42 55 415	61.61 2.54 -15.86	2020	1
0.42 53 413	77.84 28.76 0.05	2021	<b>)</b>
4.13 47 405	70.08 -7.90 10.21	2022	
-2.95 77 397	75.08 9.76 -16.53	2023	<b>}</b> }
0.27 — 405	73.94 -1.52 -3.20	01-24	100k 80k 60k 20k 20k
+/- Category Index % Rank Cat No. of Funds in Cat	NAV/Price Total Return % +/- Standard Index Performance Quartile (within category)	Investment Style Equity/Stocks %	Growth of \$10,000  Vanguard Mid-Cap Value Index Admiral 30,626  Category Average 27,803  Standard Index 41,931

Net Assets  1.38 1.31 1.30 1.24 1.16 1.11 1.10 1.07 1.05 1.05 1.04 1.01	Holdings: 199 Total Stocks, 0 Total Fixed-Income, 199 Total Stocks, 0 Total Fixed-Income, 199 Total Stocks, 0 Total Fixed-Income, 199 Tumover Ratio PACCAR Inc Arthur J. Gallagher & Co Carrier Global Corp Ordinary Shares PG&E Corp D.R. Horton Inc Nucor Corp ONEOK Inc Digital Realty Trust Inc Centene Corp Ferguson PLC United Rentals Inc Ameriprise Financial Inc Ameriprise Financial Inc	Share Amount 4 mil 2 mil 19 mil 2 mil 2 mil 2 mil 2 mil 2 mil 2 mil 4 mil 2 mil 4 mil 2 mil 3 mil 3 mil	Share Chg since 11-2023	Short % 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.	Long % 1 0.17 98.41 1.43 0.00 0.00 100.01 Port Rel Avg Index 17.2 0.71 10.3 0.63 2.2 0.52 25284 0.10	Portfolio Analysis 12-31-2023  **Isset Allocation % 0.16 **No.16** 98.41 **No.10** 98.41 **No.10** 98.41 **No.10** 1.43 **No.10** 99.41 **No.10** 1.43 **No.	ntion %  Ocks  Ocks  Osfd	Asset Allocation % Cash US Stocks Non-US Stocks Bonds Other/Not Clsfd Total Equity Style Value Bland Grawth Life Mad Ent
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	-------------------------	-----------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------	--------------------------------------------------------------------------------------------------------------------------

	Sector Weightings	Stocks %	Rel Std Index
	ூ Cyclical	42.7	1.55
Bond %	Basic Materials	7.4	3.58
1 1	Consumer Cyclical	8.3	0.79
I	Financial Services	17.9	1.41
	■ Real Estate	9.2	3.86
I	∨ Sensitive	30.3	0.59
I	■ Communication Services	2.6	0.30
	<b>→</b> Energy	3.2	0.84
1	□ Industrials	15.5	1.90
Stocks % Rai Std Inday	Technology	9.0	0.30
100	→ Defensive	27.0	1.28
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Consumer Defensive	6.0	0.98
	◆ Healthcare	8.8	0.68
	Utilities	12.2	5.47

Alpha

R-Squared Beta

-1.48 0.96 78.58

Below B

ВВ

₿ AAA

Credit Quality Breakdown

R

Potential Cap Gains Exp

2.31% 4.96% 99.33 -0.97 0.98

Americas

Regional Exposure

Greater Asia

Greater Europe

12-Month Yield

Operations					
Family:	Vanguard	Base Currency:	USD	Purchase Constraints:	
Manager:	Multiple		VMVAX	Incept:	09-27-2011
Tenure:	2.6 Years	ISIN:	US9219376947	Туре:	MF
Objective:	Growth	Minimum Initial Purchase:	\$3,000	Total Assets:	\$27,665.43 mil

# (USD) Vanguard Target Retirement 2020 Fund

Performance 01-31-2024	31-2024				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2022	-5.06	-9.20	-5.12	4.97	-14.15
2023	4.77	2.15	-2.65	8.00	12.51
2024	1	1	I		-0.11
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	7.39	55	5.61	5.69	5.87
Std 12-31-2023	12.51		6.61	5.52	5.91
Total Return	7.39	55	5.61	5.69	5.87
+/- Std Index	0.19	-0.68	-0.61	-0.18	
+/- Cat Index	1.67	1.02	0.54	0.61	
% Rank Cat	30	50	39	26	
No. in Cat	144	133	128	64	

## Performance Disclosure 30-day SEC Yield 02-05-24

7-day Yield

Subsidized 2.87

Unsubsidized 2.98

1.54

2.22 7.11

<u>:</u>

27.11 15.85

28.46

27.15 -0.68

ജ

38

40 2015

2013

2014

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.

2.87

1.24

1.20

222

228

23 237

8

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

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

Net Assets

# Fees and Expenses

Deferred Load %	Front-End Load %	Sales Charges	

Risk and Return Profile	Gross Expense Ratio %	12b1 Expense %	Management Fees %	Fund Expenses
	0.08	NA	0.00	

_	5Yr	3 Yr	
l t	Avg	Avg	Morningstar Return
_	Avg	-Avg	Morningstar Risk
	<b>4★</b>	3 <b>★</b>	Morningstar Rating <sup>™</sup>
64 fu	128 funds	133 funds	1
_	5Yr	3 Yr	
			<b>Risk and Return Profile</b>
			Gross Expense Ratio %

Fixed-Incom

		5 Yr	10 Yr
	133 tunds	128 funds	64 tunds
Morningstar Rating™	3 <b>⊁</b>	<b>4★</b>	4⋆
Morningstar Risk	-Avg	Avg	Avg
Morningstar Return	Avg	Avg	+Avg
	3 Yr	5Yr	10 Yr
Standard Deviation	10.04	10.19	8.46
Mean	1.55	5.61	5.69
Sharpe Ratio	-0.06	0.39	0.53
MPT Statistics S	Standard Index		Best Fit Index Morningstar US
		Mod Cor	Mod Con Tgt Alloc NR USD
Alpha	-0.86	õ	-0.06
Beta	0.80	ö	1.02
R-Squared	97.95	55	99.36
12-Month Yield			2.85%
Potential Cap Gains Exp			13.84%

Below B NR

88

12.05 0.00

 $\mathbb{R}$ 

AA Credit Qualit

Greater Europe

Americas Regional Exposure

Stocks %

Rel Std Index

0.38 0.21 0.00

63.9 17.6

0.99

1.02

t-Driven % Morningstar Ratin  ****  average % 133 US Fund  Target-Date 2020	Morningstar Analyst-Driven % Morningstar Rating Medalist Rating™ 100.00 ★★★★  Silver Data Coverage % 133 US Fund 03-01-2023 100.00 Tarrost-Data 2020
-----------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------

		g	
100.00	Data Coverage %	<b>ng™</b> 100.00	Analyst-Driven %
Target-Date 2020	133 US Fund	***	Analyst-Driven% Morningstar Rating™
	_	-	-







g	Standard Index
	Morningstar Mod Tg
	Risk TR USD
ŏ	





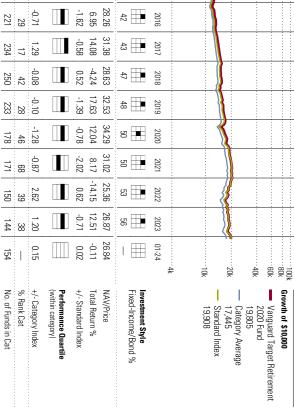






## Mod 2020 TR USD Morningstar Lifetime

## US Fund Target-Date Morningstar Cat



Portfolio Analysis 12-31-2023	<b>s</b> 12-31-2023					
Asset Allocation %	Net %	Long %	Short %	Share Chg	Share	Holdings:
Cash	2.72	5.95	3.22	since	Amount	10,207 Total Stocks , 18,351 Total Fixed-Inco
US Stocks	23.43	23.43	0.00	11-2023		3% Turriover nauto
Non-US Stocks	15.70	15.70	0.00	<b>①</b>	1,355 mil	Vanguard Total Bond Market II Idx
Bonds	58.11	58.13	0.03	1	42 mil	Vanguard Total Stock Mkt Idx InstI
Other/Not Clsfd	0.04	0.05	0.00	①	336 mil	Vanguard Total Intl Stock Index Inv
Total	100.00	103.25	3.25	⊕ ⊕	214 mil 191 mil	214 mil Vanguard Total Intl Bd II ldx Insl 191 mil Vanguard Shrt-Term Infl-Prot Sec I
Equity Style	Portfolio Statistics	Port Rel		(		C
Value Blend Growth	P/F Ratio TTM	Avg Index 17.9 1.03	0 Gat	Sector Weightings	ightings	Stocks %
egie.	P/C Ratio TTM			℃ Cyclical	cal	34.5
P!M	P/B Ratio TTM	2.4 1.09	0.93	* Basic	Basic Materials	s 4.7
ıs	Avg Mkt Cap	76698 1.47	0.91	<b>⊉</b> Cons	Consumer Cyclical	ical 11.0
llerr	\$mil			🙃 Finar	Financial Services	ces 15.6
					7	3

ty Br				Ext	e Style
reak	мот	baM	ИрiH		ĕ
<b>ry Breakdown</b> 12-31-2023		Avg Wtd Price	Avg Eff Duration  Avg Wtd Coupon	Avg Eff Maturity	
Bond % 65.14 8.39		93.93	5.87 2.53	7.65	
<b>→</b> + 17		<b>‡</b> 0	_ ≡0	<b> </b> {	E
Consumer I Healthcare Utilities	100	Industrials	Communica	Sensitive	

<ul><li>→ Defensive</li><li>☐ Consumer</li><li>☐ Healthcare</li><li>☐ Utilities</li></ul>	Communic Energy Industrials Technolog	Sector Weightings  Cyclical  Basic Mater  Consumer C  Financial Se  Real Estate	11-2023 1-2023 1 1-2023
<b>Defensive</b> Consumer Defensive Healthcare Utilities	Sensitive Communicatio Energy Industrials Technology	or Weightings Cyclical Basic Materials Consumer Cyclical Financial Services Real Estate	1,355 mil 42 mil 336 mil 214 mil 191 mil
ensive	Sensitive Communication Services Energy Industrials Technology	ls lical loes	3% Turnover Ratio Vanguard Total Bond Market II Idx Vanguard Total Stock Mkt Idx Inst! Vanguard Total Intl Stock Index Inv Vanguard Total Intl Bd II Idx Insl Vanguard Shrt-Term Infl-Prot Sec I
<b>20.2</b> 6.4 11.2 2.6	45.3 6.8 4.6 11.7 22.3	Stocks % <b>34.5</b> 4.7 11.0 15.6 3.2	Market II Idx k Mkr Idx Instl Stock Index Inv Bd II Idx Insl
<b>0.97</b> 0.96 1.01 0.86	1.12 1.12 0.92 0.96 1.27	Rel Std Index <b>0.89</b> 0.96 1.04 0.95	33.35 23.56 16.05 14.61 11.67

Base Currency: Ticker: ISIN: Minimum Initial Purchase:	Greater Asia
USD VTWNX US92202E8057 \$1,000	18.4 0.94
Purchase Constraints: Incept: Type: Total Assets:	94
—- 06-07-2006 MF \$38,310.71 mil	

Objective: Tenure: Manager: Family:

Asset Allocation

Multiple 11.0 Years Vanguard Operations

# (USD) Vanguard Target Retirement 2025 Fund

Performance UI-31-2U24	-31-2024				
Quarterly Returns	1st Otr	2nd Otr	3rd Qtr	4th Otr	Total %
2022	-5.51	-10.72	-5.59	6.03	-15.55
2023	5.28	3.02	-2.99	8.87	14.55
2024					-0.11
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	8.56	2.14	6.41	6.31	6.50
Std 12-31-2023	14.55		7.56	6.10	6.53
Total Return	8.56	2.14	6.41	6.31	6.50
+/- Std Index	1.37	-0.09	0.19	0.45	
+/- Cat Index	2.56	1.37	0.96	0.77	
% Rank Cat	12	34	27	13	
No. in Cat	208	197	177	104	

# Performance Disclosure

30-day SEC Yield 02-05-24

7-day Yield

Subsidized 2.74

Unsubsidized 2.79

3.83

15.75 18.14

\_

69

2013

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.

1.87 24 181

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

Portfolio Analysis 12-31-2023

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

# Fees and Expenses

+Avg	+Avg	Avg	Morningstar Return
Avg	Avg	Avg	Morningstar Risk
<b>4★</b>	4 <b>★</b>	3★	Morningstar Rating <sup>™</sup>
104 funds	177 funds	197 funds	
10 Yr	5 Yr	3 Yr	
			<b>Risk and Return Profile</b>
0.08			Gross Expense Ratio %
NA			12b1 Expense %
0.00			Management Fees %
			Fund Expenses

Kisk and Keturn Profile			
	3 Yr	5 Yr	10 Yr
	197 funds	177 funds	104 funds
Morningstar Rating™	3 <b>⊁</b>	4⋆	4⊁
Morningstar Risk	Avg	Avg	Avg
Morningstar Return	Avg	+Avg	+Avg
	3 Yr	5Yr	10 Yr
Standard Deviation	11.59	11.86	9.79
Mean	2.14	6.41	6.31
Sharpe Ratio	0.01	0.41	0.53
MPT Statistics	Standard Index		Best Fit Index Morningstar Gbl
•			Allocation TR USD
Alpha	-0.16	6	0.28
Beta	0.93	ಜ	0.90
R-Squared	98.59	59	99.31
12-Month Yield			2.72%
Potential Cap Gains Exp			16.43%

Below B NR

Americas Regional Exposure

Stocks %

Rel Std Index

0.42 0.22

03-01-2023	🕎 Silver	Medalist Rating" 100.00	Morningstar
100.00	Data Coverage % 197 US Fund	100.00	Analyst-Driven %
Target-Date 2025	197 US Fund	***	Analyst-Driven % Morningstar Rating ***







ē	Statituary illuex
	Morningstar Mod T
	Risk TR USD
S	

# 1gt

# Category Index

## Mod 2025 TR USD Morningstar Lifetime

## 2025 US Fund Target-Date Morningstar Cat

No. of Funds in Cat	219	208	219	220	214	232	226	208	195	206	185
% Rank Cat	1	=	52	57	40	22	42	21	23	24	4
+/- Category Index	0.22	2.40	2.03	-0.30	-0.37	0.26	-0.25	1.40	-0.91	1.21	1.13
Performance Quartile (within category)											
+/- Standard Index	0.02	1.32	-0.77		0.47	0.60	-0.39	1.28	-1.09	0.94	2.28
NAV/Price Total Return %	18.36 -0.11	18.38	16.68 -15.55	20.34 9.80	21.54	19.84 19.63	17.01 -5.15	18.50 15.94	16.35 7.48	15.62 -0.85	16.53 7.17
Investment Style Equity/Stocks %	I	51	ස 🏬	54	98	60	63	62	64	66	67
	01-24	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
	4k ig										
19,078 — Standard Index 19,908	100	Į	1		1	}	}	1	1	}	}
21,337 — Category Average	200										
<ul> <li>Vanguard Target Retirement 2025 Fund</li> </ul>	80k										
	100k	-			-					1	

	15.25				D
1	9.25				AA
3 (	61.58	_			AAA
<b>1</b>	Bond %	В		down 12-31-2023	Credit Quality Breakdown 12-31-2023
					MO
₽	93.58			Avg Wtd Price	l bel
<b>3</b>	2./1			Avg Wtd Coupon	N
⊞0	6.22			Avg Eff Duration	цбіH
<b> </b> {	8.17			Avg Eff Maturity	Ltd Mod Ext
ı	,				Fixed-Income Style
1				\$IIII	lle
Þ	0.86	1.47	76785	Geo Avg Mkt Cap	mS
В	0.93	1.09	2.4	P/B Ratio TTM	biM
¢	0.94	1.04	12.1	P/C Ratio TTM	96,6
Sec	0.96	1.03	17.9	P/E Ratio TTM	Value Blend Growth
<b>?</b>   (	Cat	lndex	Port	Portfolio Statistics	Equity Style
⊕ ⊕	2.77	7	102.77	100.00	Total
<b>(+)</b>	0.00	Ō	0.05	0.05	Other/Not Clsfd
•	0.02	7	44.8	44.84	Bonds
Œ	0.00	ភ	21.05	21.05	Non-US Stocks
1-2	0.00	73	31.5	31.52	US Stocks
SINCE	2.75	œ	5.28	2.54	Cash
Shar	Short %		Long %	Net %	Asset Allocation %

Fixed-Income Style	llsm2	P!W	ııde	27	Value Blend Growth	Equity Style
	\$mil	P/B Ratio TTM	P/C Ratio TTM	P/E RATIO I IIVI	7777	Portfolio Statistics
	76/85	2.4	12.1	1.9	Avg	Port
	.4/	1.09	1.04	.03	Index	Rel
	U.go	0.93	0.94	0.90	Cat	B

Fixed-income style	yie	
Ltd Mod Ext	Avg Eff Maturity	8.17
	Avg Eff Duration	6.22 2.71
	Avg Wtd Price	93.58
	мот	
Credit Quality Br	Credit Quality Breakdown 12-31-2023	Bond %
AAA		61.58
AA		9.25
Þ		15.25
BBB		13.28
B BB		0.00

are Chg Share Holdings: Ne ce Amount 10.645 forcal Stocks , 18,173 Total Fixed-Income, 2023 6% Tumover Ratio 112 mil Vanguard Total Stock Mkt Idx Instl 2,261 mil Vanguard Total Bond Market II Idx 885 mil Vanguard Total Intl Stock Index Inv 358 mil Vanguard Total Intl Bd II Idx Instl 161 mil Vanguard Shrt-Term Infl-Prot Sec I	Rel Std Index	Stocks %	Sector Weightings	Sector V
Chg Share Holdings: Ne Amount 10,645 Total Stocks , 18,173 Total Fixed-Income, 23 6% Tumover Ratio 112 mil Vanguard Total Stock Mkt Idx Instl 2,261 mil Vanguard Total Bond Market II Idx 885 mil Vanguard Total Intl Stock Index Inv 358 mil Vanguard Total Intl Bd II Idx Instl	σī	Vanguard Shrt-Term Infl-Prot Sec I	161 mil	<b>①</b>
Chg Share Holdings: Ne Amount 10,645 Total Stocks , 18,173 Total Fixed-Income, 10,645 Total Stocks , 18,173 Total Fixed-Income, 23 6% Tumover Ratio 112 mil Vanguard Total Stock Mkt Idx Instl 2,261 mil Vanguard Total Bond Market II Idx 885 mil Vanguard Total Intl Stock Index Inv	12	Vanguard Total Intl Bd II Idx Insl	358 mil	•
Chg Share Holdings: Ne Amount 10,945 Total Stocks , 18,173 Total Fixed-Income, 23 6% Turnover Ratio 112 mil Vanguard Total Stock Mkt ldx Instl 2,261 mil Vanguard Total Bond Market II ldx	21	Vanguard Total Intl Stock Index Inv	885 mil	<b>⊕</b>
Chg Share Holdings: Ne Amount 10,645 Total Stocks , 18,173 Total Fixed-Income, 23 6% Turnover Ratio 112 mil Vanguard Total Stock Mkt ldx Instl	28.34	Vanguard Total Bond Market II Idx	2,261 mil	<b>①</b>
Chg Share Holdings: Amount 10,645 Total Stocks , 18,173 Total Fixed-Income, 6% Turnover Ratio	31.69	Vanguard Total Stock Mkt Idx InstI	112 mil	1
Share Holdings:		10,645 Total Stocks , 18,173 Total Fixed-Income, 6% Turnover Ratio		since 11-2023
	Net As:	Holdings:		Share Ch

53

or Weightings	Stocks %	Rel Std Index
Cyclical	34.5	0.89
Basic Materials	4.7	0.96
Consumer Cyclical	11.0	1.04
Financial Services	15.6	0.95
Real Estate	3.2	0.48
Sensitive	45.3	1.12
Communication Services	6.8	1.12
Energy	4.6	0.92
Industrials	11.7	0.96
Technology	22.3	1.28
Defensive	20.2	0.97
Consumer Defensive	6.4	0.96
Healthcare	11.2	1.01
Utilities	2.6	0.86

ation 1		Multiple Ti		<u>c</u>	Đ		an Gains Exn 16.43% At
Minimum Initial Purchase:	ISIN:	Ticker:	ase Currency:	Idalai Wala	Proptor Asia	Greater Europe	mericas
\$1,000	US92202E4098	VITVX	USD		19 /	17.6	64.0
Total Assets:	Туре:	Incept:	Purchase Constraints:	C. 04	0.0/	0.99	1.02
\$75,695.77 mil	MF	10-27-2003	1				

Family:

Operations

Objective: Tenure: Manager:

# (USD) Vanguard Target Retirement 2030 Fund

Performance 01-31-2024	31-2024				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2022	-5.65	-11.67	-5.93	6.81	-16.27
2023	5.67	3.56	-3.20	9.53	16.03
2024	I		1		-0.14
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	9.44	2.74	7.09	6.83	6.53
Std 12-31-2023	16.03		8.37	6.58	6.57
Total Return	9.44	2.74	7.09	6.83	6.53
+/- Std Index	2.24	0.51	0.88	0.97	
+/- Cat Index	2.83	1.32	1.04	0.71	
% Rank Cat	21	41	37	26	
No. in Cat	211	199	175	102	
			-	=	:

2.66	2.64	30-day SEC Yield 02-05-24
	1	7-day Yield
Unsubsidized	Subsidized	

27.64 20.49 6.18

76

2013

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

0.85 25

222

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

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

## Sales Charges Fees and Expenses

Front-End Load % Deferred Load %	22
Fund Expenses	
Management Fees %	0.
12b1 Expense %	7
Gross Expense Ratio %	<u>e</u>

99.33		98.72	R-Squared
0.98		1.02	Beta
1.01		0.53	Alpha
Allocation TR USD	Allocat		
Best Fit Index Morningstar Gbl		Standard Index	MPT Statistics
0.54	0.44	0.07	Sharpe Ratio
6.83	7.09	2.74	Mean
10.81	13.06	12.65	Standard Deviation
10 Yr	5 Yr	3 Yr	
+Avg	Avg	Avg	Morningstar Return
Avg	Avg	Avg	Morningstar Risk
4⊁	3 <b>★</b>	3 <b>★</b>	Morningstar Rating <sup>™</sup>
102 funds	175 funds	199 funds 17	
10 Yr	5Yr	3 Yr	
			Risk and Return Profile
0.08			Gross Expense Ratio %
NA			12b1 Expense %
0.00			Management Fees %

Beta R-Squared

15.05% 2.60%

Regional Exposure

Stocks %

Rel Std Index

12-Month Yield

03-01-2023 1	Silver c	Medalist Rating™ 100.00	Morningstar /	
100.00	Data Coverage % 199 US Fund	00.00	\nalyst-Driven%	
Target-Date 2030	199 US Fund	***	Analyst-Driven % Morningstar Rating™	
	П	-	co	ı

gstar	Analyst-Driven %	Analyst-Driven % Morningstar Rating ** Standard Ind	Standard Inc
st Rating" 100.00	100.00	***	Morningstar
/er	Data Coverage % 199 US Fund	199 US Fund	Risk TR USE
23	100.00	Target-Date 2030	
	-		=













# Category Index

## Mod 2030 TR USD Morningstar Lifetime



No. of Funds in Cat	222	211	221	221	224	241	239	234	221	237	228
% Rank Cat	l	12	4	61	38	32	37	34	32	ಟ	ហ
+/- Category Index	0.23	2.70	1.67	-0.31	0.41	-0.17	-0.03	0.93	-1.41	1.27	1.16
Performance Quartile (within category)											
+/- Standard Index	-0.01	2.80	-1.49	1.19	1.28	2.05	-1.10	2.87	-0.72	0.76	2.28
NAV/Price Total Return %	35.43 -0.14	35.48 16.03	31.37	38.42 11.38	40.55 14.10	36.45 21.07	30.82	33.63 17.52	29.20 7.85	27.72	29.04 7.17
Investment Style Equity/Stocks %	I <b>   </b>	60	63	63	88	68	88	70	71	73	74
	01-24	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
	4k										
— Standard Index 19,908	10k				4			\	1	}	
— Category Average 20,420	20k	***************************************	*	N.				\			
2030 Fund 22,763	40k										
Growth of \$10,000  Vanquard Target Retirement	80k										

Portfolio Analysis 12-31-2023	is 12-31-2023				
Cash	2.23	4.67	2.44	since Amount	
US Stocks	37.22	37.22	0.00	11-2023	
Non-US Stocks	24.44	24.44	0.00	① 153 mil	Vanguard Total Stock Mkt Idx Inst
Bonds	36.05	36.08	0.02	⊕ 2,361 mil	Vanguard Total Bond Market II ldx
Other/Not Clsfd	0.05	0.05	0.00	⊕ 1,188 mil	Vanguard Total Intl Stock Index Inv
Total	100.00	102.46	2.46	⊕ 367 mi	367 mil Vanguard Total Intl Bd II Idx Insl
Equity Style	Portfolio Statistics	Port Rel	[윤	Sector Weightings	Stocks %
Value Blend Growth	P/F Ratio TTM	Avg Index 17.9 1.03	0 97	ე Cyclical	34.4
Гэгде	P/C Ratio TTM			Basic Materials	ials 4.7
ρįΜ	P/B Ratio TTM	2.5 1.09		Consumer Cyclical	yclical 11.0
S	Geo Avg Mkt Cap	77313 1.48	0.85	Financial Services	rvices 15.5
llem	\$mil			Real Estate	3.2

	57.29 10.24 16.97 14.81 0.00	AAA AAA BBB
Consumer Di	Bond %	Credit Quality Breakdown 12-31-2023
→ Defensive		мод
Technology	93.15	PRIV Avg Wtd Price

Bond %	8.83 C 6.67 C 5	Rel Section Cat	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
<b>Defensive</b> Consumer Defensive Healthcare Utilities	Sensitive Communication Services Energy Industrials Technology	Sector Weightings  Cyclical  Basic Materials  Consumer Cyclical  Financial Services  Real Estate	153 mil 2,361 mil 1,188 mil 367 mil
ensive	n Services	ls lical ices	Vanguard Total Stock Mkt Idx Instl Vanguard Total Bond Market II Idx Vanguard Total Intl Stock Index Inv Vanguard Total Intl Bd II Idx Insl
<b>20.2</b> 6.4 11.2 2.6	<b>45.4</b> 6.8 4.6 11.7 22.3	Stocks % 34.4 4.7 11.0 15.5 3.2	Mkt Idx Instl Warket II Idx ock Index Inv III Idx Insl
<b>0.97</b> 0.96 1.01 0.86	1.12 1.12 0.92 0.96 1.28	Rel Std Index <b>0.89</b> 0.96 1.04 0.94 0.48	37.43 25.58 24.98 11.03

Fixed-Income Style

ЧбіН

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

Asset Allocation  Ninimum Initial Purchase: \$1,000	Potential Cap Gains Exp  Operations Family:	ss Exp  Vanguard	15.05%	Americas Greater Europe Greater Asia Base Currency:	64.4 17.4 18.2 USD	1.03 0.97 0.93 Purchase Constraints:	
USD VTHRX US92202E8883 \$1,000				Greater Asia	18.2	0.93	
Vanguard  Base Currency:  Multiple  Ticker:  VTHRX  11.0 Years  ISIN:  US92202E8883  Asset Allocation  Minimum Initial Purchase:  \$1,000	Operations						
Multiple Ticker: VTHRX 11.0 Years ISIN: US9220ZE8883 Asset Allocation Minimum Initial Purchase: \$1,000	Family:	Vanguard		Base Currency:	USD	Purchase Constraints:	1
11.0 Years ISIN: US9220ZE8883 Asset Allocation Minimum Initial Purchase: \$1,000	Manager:	Multiple		Ticker:	VTHRX	Incept:	06-07-2006
Asset Allocation Minimum Initial Purchase: \$1,000	Tenure:	11.0 Years		ISIN:	US92202E8883	Туре:	MF
	Objective:	Asset Allocation		Minimum Initial Purchase:	\$1,000	Total Assets:	\$88,546.14 mi

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# (USD) Vanguard Target Retirement 2035 Fund

Performance UT-31-2024	31-2024				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2022	-5.66	-12.41	-6.09	7.45	-16.62
2023	5.94	4.10	-3.33	9.87	17.14
2024					-0.05
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	10.25	3.44	7.80	7.36	7.29
Std 12-31-2023	17.14	I	9.17	7.06	7.32
Total Return	10.25	3.44	7.80	7.36	7.29
+/- Std Index	3.05	1.21	1.58	1.50	
+/- Cat Index	2.70	0.95	0.95	0.62	
% Rank Cat	3	48	46	31	
No. in Cat	207	190	174	101	

2013

2014

# Performance Disclosure

30-day SEC Yield 02-05-24

7-day Yield

Subsidized 2.54

Unsubsidized 2.56

> 22.82 16.98

17.84 2.35 7.24

8

<u>&</u>

8.52

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

0.79

₩ 23 1.44

185

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

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

# Fees and Expenses

# Deferred Load % Front-End Load % Sales Charges

ž

o % file	3 Yr 5 Yr funds 174 funds 3 * 3 *	0.00 NA <b>0.08</b> <b>0.08</b> 10 Yr 10 Yr 4★
Morningstar Rating™ 3★ Morningstar Risk -Avg Morningstar Return Avg		+ .

Fixed-Income Style

ЧбіН baM

ller

5 Yr 174 funds 10: 3★ -Avg	10 Yr 101 funds 4*
3 Yr 5 Yr 190 funds 174 funds 10: 3 * 3 * 3 * -Avg -Avg	10 Yr 101 funds 4★
ng™ 3★ 3★ -Avg -Avg	<b>4★</b>
-Avg -Avg	
	-Avg
Morningstar Return Avg Avg	+Avg
3 Yr 5 Yr	10 Yr
Standard Deviation 13.48 14.14	11.77
Mean 3.44 7.80	7.36
Sharpe Ratio 0.12 0.46	0.55
MPT Statistics Standard Index Best Fit	Best Fit Index
Morningst Allocation T	Morningstar Gbl Allocation TR USD
Alpha 1.29	1.80
Beta 1.08	1.05
R-Squared 98.64 9	99.14
12-Month Yield 2	2.48%
Potential Cap Gains Exp 18	18.28%

 $\exists$ AAA

Credit Quality Brea

## Morningstar Medalist Rating 03-01-2023 **Analyst-Driven%** 100.00 Data Coverage % 100.00 Target-Date 2035 190 US Fund \*\*\* Morningstar Rating™









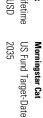












Portfolio Analysis 12-31-2023	is 12-31-2023					
Asset Allocation %	Net %	Long %	Short %	Chg	Holdings:	Net Assets
Cash	2.31	4.25	1.94	since Amount	10,950 Total Stocks , 17,714 Total Fixed-Income,	%
US Stocks	42.11	42.11	0.00	11-2023	1% Turnover haut	) )
Non-US Stocks	26.88	26.88	0.00	① // mil	Vanguard Total Stock Mkt Idx Insti	42.35
Bonds	28.65	28.67	0.02	⊕ 1,335 mil	1,335 mil Vanguard Total Intl Stock Index Inv	27.47
Other/Not Clsfd	0.05	0.06	0.00	⊕ 1,917 mil	1,917 mil Vanguard Total Bond Market II ldx	20.32
Total	100.00	101.96	1.96	⊕ 299 mil	299 mil Vanguard Total Intl Bd II ldx Insl	8.77
Equity Style	Portfolio Statistics		Re l	Sector Weightings	Stocks %	Rel Std Index
Value Blend Growth	P/F Ratio TTM	Avg Index	o cat	Դ Cyclical	34.3	0.89
Гагде	P/C Batio TTM			Basic Materials	lls 4.6	0.95
!W	P/B Ratio TTM			Consumer Cyclical	clical 11.0	1.04
: F	an	78176 1.50	0.88	Financial Services	ices 15.5	0.94
ws				1		,

Geo Avg Mkt Cap 78176 1.50 0.88 \$mil

0.97 0.95 1.02 0.86

					3									akdown 12-31-2023		
VTTHX US92202E5087	USD	17.9	17.1	65.0	Stocks %									2023		
		0.91	0.96	1.04	Rel Std Index	0.23	0.46	0.00	0.00	14.81	16.98	10.25	57.28	Bond %		
Incept: Type:	Purchase Constraints:											Oullines		Healthcare	Consumer Defensive	
10-27-2003 MF												2.0	ع . م	11.3	6.4	!!!

Below B NR

BB

Manager: Family:

Multiple 11.0 Years Vanguard

Ticker:

Base Currency:

ISIN:

Minimum Initial Purchase:

\$1,000

Total Assets:

\$90,652.25 mil

Operations

Greater Europe Greater Asia

Americas Regional Exposure

Objective: Tenure:

Asset Allocation

0.48

1.12 1.13 0.92 0.96 1.28

# (USD) Vanguard Target Retirement 2040 Fund

Performance 01-31-2024	31-2024				
Quarterly Returns	1st Otr	2nd Otr	3rd Qtr	4th Otr	Total %
2022	-5.66	-13.17	-6.33	8.20	-16.98
2023	6.21	4.57	-3.34	10.23	18.34
2024	I	1	1		-0.08
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	11.00	4.10	8.49	7.85	7.18
Std 12-31-2023	18.34		9.99	7.52	7.22
Total Return	11.00	4.10	8.49	7.85	7.18
+/- Std Index	3.80	1.87	2.27	1.99	
+/- Cat Index	2.46	0.54	0.88	0.63	1
% Rank Cat	46	59	46	36	
No. in Cat	205	193	175	102	
			-	:	

2.46	2.44	30-day SEC Yield 02-05-24
		7-day Yield
Unsubsidized	Subsidized	

28.32 24.37 10.07

88 2013

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.

1.32 15

218

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

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

# Fees and Expenses

## Deferred Load % Front-End Load % Sales Charges

₹

Fund Expenses			
Management Fees %			0.00
12b1 Expense %			NA
Gross Expense Ratio %			0.08
Risk and Return Profile			
	3 Υr	5Yr	10 Yr
	193 funds	175 funds	102 funds
Morningstar Rating™	3 <b>★</b>	3 <b>★</b>	4★
Morningstar Risk	-Ava	-Ava	-Ava

Fixed-Income Style

nisk allu neturii rrollie			
	3 Yr 193 funds	5 Yr 175 funds	10 Yr 102 funds
Morningstar Rating™		3 <b>⊁</b>	4⊁
Morningstar Risk	-Avg	-Avg	-Avg
Morningstar Return	Avg	Avg	Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	14.30	15.22	12.71
Mean	4.10	8.49	7.85
Sharpe Ratio	0.17	0.48	0.55
MPT Statistics	Standard Index		Best Fit Index MSCI ACWI NR
			USD
Alpha	2.02	2	-1.62
Beta	1.15	51	0.86
R-Squared	98.37	7	99.35
12-Month Yield			2.38%
Potential Cap Gains Exp			18.87%

03-01-2023	_	Medalist Rating 100.00	Morningstar
100.00	Data Coverage % 193 US Fund	100.00	Analyst-Driven %
Target-Date 2040	193 US Fund	***	Analyst-Driven % Morningstar Rating **
	т	-	co







# Morningstar Mod Tgt



# Category Index

# Morningstar Lifetime Mod 2040 TR USD

## 2040 US Fund Target-Date Morningstar Cat

No. of Funds in Cat	216	205	216	215	218	241	239	234	221	237	227
% Rank Cat	1	47	36	81	40	43	37	25	27	<b>&amp;</b>	12
+/- Category Index	0.31	2.00	0.39	-0.80	2.38	-0.49	0.33	0.84	-1.88	1.25	1.63
Performance Quartile (within category)											
+/- Standard Index	0.05	5.11	-2.20	4.37	2.65	4.83	-2.57	6.05	0.16	0.21	2.26
Total Return %	-0.08	18.34	-16.98	14.56	15.47	23.86	-7.32	20.71	8.73	-1.59	7.15
NAV/Price	39.27	39.30	34.00	42.03	44.27	39.13	32.31	35.77	30.21	28.45	29.76
Investment Style Equity/Stocks %		75	76	76	8	82	88	84	86	88	88
	01-24	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
	4k										
— Standard Index 19,908	10k				•	Ì		N	<b>\</b>	}	1
Category Average 23,215	20k							\			
2040 Fund 25,659	40k										
<ul> <li>Vanguard Target Retirement</li> </ul>	60k										
Growth of \$10,000	8 2 2 2										

ller	l'S	P!M	эбле	Value Blend Growth	Equity Style	Total	Other/Not CIsfd	Bonds	Non-US Stocks	US Stocks	Cash	Asset Allocation %	Portfolio Analysis 12-31-2023
\$mil	Geo Avg Mkt Cap	P/B Ratio TTM	P/C Ratio TTM	P/E Ratio TTM	Portfolio Statistics	100.00	0.06	21.64	29.72	46.56	2.02	Net %	is 12-31-2023
	78184 1.50	2.5 1.10	12.2 1.05	18.0 1.03		101.48	0.07	21.65	29.72	46.56	3.48	Long %	
	0.90	0.93	0.95	0.98	Re l	1.48	0.00	0.01	0.00	0.00	1.46	Short %	
Real Estate	Financial Services	Consumer Cyclical	Basic Materials	் Cyclical	Sector Weightings	⊕ 197 mi	⊕ 1,277 mi	⊕ 1,297 mi	① · · · · · · · · · · · · · · · · · · ·		since Amount	Chg	
3.2	rvices 15.5	yclical 11.0			Stocks %	197 mil Vanguard Total Intl Bd II Idx Insl	1,277 mil Vanguard Total Bond Market II ldx	,29/ mil Vanguard Total Intl Stock Index Inv	1/2 mil Vanguard Total Stock Mikt Idx insti	Variante Hatal Strate Mit Ide Inati			
0.48	0.94	1.04	0.95	0.89	Rel Std Index	6.58	15.40				ome, %	Net Assets	

			Rel St																				18.0 1.03	
0.91	0.96	1.04	Rel Std Index	0.23	0.46	0.00	0.00	14.80	16.94	10.20	57 28			93.14	2.94	_	8.83 		_		0.93	0.95	0.98	
										Utilities	■ Healthcare	Consumer Defensive	→ Defensive	Technology		<b>▲</b> Energy	Communication Services	yw Sensitive	Real Estate	Financial Services	Consumer Cyclical	Basic Materials	∿ Cyclical	
										2.6	11.3	6.4	20.2	22.4	11.6	4.5	6.8	45.5	3.2	15.5	11.0	4.6	34.3	
										0.86	1.02	0.95	0.97	1.29	0.96	0.92	1.13	1.12	0.48	0.94	1.04	0.95	0.89	

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Objective: Manager: Tenure: Operations
Family:

Asset Allocation

Minimum Initial Purchase:

\$1,000 **VFORX** US92202E8701

> Type: Incept:

06-07-2006 MF \$79,816.12 mil

Purchase Constraints:

Total Assets:

Multiple 11.0 Years Vanguard

Ticker: ISIN:

Base Currency:

Greater Europe Greater Asia

Americas

Regional Exposure

Stocks % 65.0 17.1

Below B NR

888

 $\geq$ AAA

Credit Quality Breakdown 12-31-2023

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



# (USD) Vanguard Target Retirement 2045 Fund

Performance 01-31-2024	-2U24				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2022	-5.67	-13.93	-6.51	8.89	-17.36
2023	6.49	5.10	-3.45	10.57	19.48
2024	-	1			-0.04
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	11.75	4.76	9.17	8.24	7.94
Std 12-31-2023	19.48	I	10.76	7.91	7.97
Total Return	11.75	4.76	9.17	8.24	7.94
+/- Std Index	4.55	2.53	2.96	2.38	
+/- Cat Index	2.56	0.51	1.09	0.77	
% Rank Cat	44	48	36	26	
No. in Cat	201	190	174	101	

2.37	2.35	30-day SEC Yield 02-05-24
1		7-day Yield
Unsubsidized	Subsidized	

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

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

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

# Fees and Expenses

# Deferred Load % Front-End Load % Sales Charges

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+Avg	Avg	Avg	Morningstar Return
-Avg	-Avg	-Avg	Morningstar Risk
<b>4★</b>	4 <b>★</b>	3⊁	Morningstar Rating <sup>1M</sup>
101 funds	174 funds	190 funds	
10 Yr	5 Yr	3 Yr	
			<b>Risk and Return Profile</b>
0.08			Gross Expense Ratio %
NA			12b1 Expense %
0.00			Management Fees %
			Fund Expenses

Fixed-Income Style

ЧбіН baM

Risk and Return Profile			
	3 Yr	5Yr	10 Yı
	190 funds '	174 funds	101 funds
Morningstar Rating™	3 <b>★</b>	4⋆	4⊁
Morningstar Risk	-Avg	-Avg	-Avg
Morningstar Return	Avg	Avg	+Avg
	3 Yr	5Yr	10 Yı
Standard Deviation	15.16	16.31	13.47
Mean	4.76	9.17	8.24
Sharpe Ratio	0.21	0.50	0.56
MPT Statistics	Standard Index		Best Fit Index MSCI ACWI NF
			USD
Alpha	2.76	0,	-1.11
Beta	1.22	2	0.92
R-Squared	98.02	2	99.59
12-Month Yield			2.28%
Potential Cap Gains Exp			21.33%

## Morningstar Medalist Rating 03-01-2023 **Analyst-Driven %** 100.00 **Data Coverage %** 100.00 190 US Fund \*\*\* Morningstar Rating™ Target-Date 2045



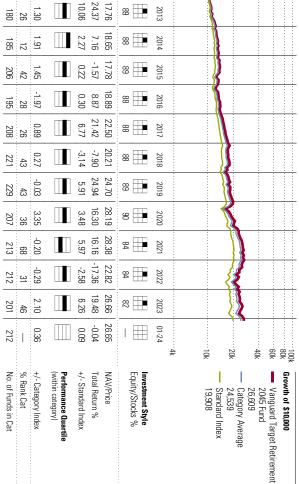


# Morningstar Mod Tgt

# Category Index

## Mod 2045 TR USD Morningstar Lifetime

## US Fund Target-Date Morningstar Cat



89

Doublin Application 12 21 2022	10 01 0000					
Asset Allocation %	Net %	Long %	Short %	Share Chg Share	Holdings:	Net Assets
Cash	2.21		0.97	since Amount	11,115 Total Stocks , 16,271 Total Fixed-Income,	%
US Stocks	50.86	50.86	0.00	2023	1% Luniover nauo	1
Non-US Stocks	32.44	32.44	0.00	⊕ 180 mil	180 mil Vanguard Total Stock Mkt Idx Insti	51.14
Bonds	14.43	14.44	0.01	⊕ 1,360 mil	Vanguard Total Intl Stock Index Inv	33.15
Other/Not Clsfd	0.06	0.06	0.00	⊕ 821 mil	821 mil Vanguard Total Bond Market II ldx	10.32
Total	100.00	100.98	0.98	⊕ 125 mil	125 mil Vanguard Total Intl Bd II ldx Insl	4.34
Equity Style	Portfolio Statistics	- 1	Rel	Sector Weightings	Stocks %	Rel Std Index
Value Blend Growth	P/F Ratio TTM	Avg Index	ာ မူ တူ	Դ Cyclical	34.3	0.89
рбіед	P/C Batio TTM			Basic Materials	als 4.6	0.95
!W	P/B Ratio TTM			Consumer Cyclical	clical 11.0	1.04
S F	à			Financial Services	rices 15.5	0.94
llem	\$mil			Real Estate	3.2	0.48

100.00		0.00		
Portfolio Statistics	Re	Rel Sector Weightings	Stocks %	Rel Std Index
D/E Dotio TTM		Cat 1₀ Cyclical	34.3	0.89
P/C Ratio TTM	1 95 1	0.96 🗻 Basic Materials	4.6	0.95
P/B Ratio TTM		0.94 Consumer Cyclical	11.0	1.04
	1.50	1.	15.5	0.94
\$mil		Real Estate	3.2	0.48
		─ ✓ Sensitive	45.5	1.12
Avg Eff Maturity	œ	8.83 Gommunication Services	6.8	1.13
Avg Eff Duration	6	6.66 <b>A</b> Energy	4.5	0.92
Avg Wtd Coupon	2	٥	11.6	0.96
Avg Wtd Price		— 🖪 Technology	22.5	1.29
		→ Defensive	20.2	0.97
	2	Consumer Defensive	6.4	0.95
kdown 12-31-2023	80nd %	Healthcare	11.3	1.02
	10.12	.03 .12 Utilities	2.6	0.86
	ō			
	14	14.78		
	0	.00		
	0	0.00		

Manager: Family:

Multiple 11.0 Years Vanguard

Ticker:

Base Currency:

ISIN:

Minimum Initial

Operations

Greater Europe Greater Asia

Americas Regional Exposure

Stocks %

Rel Std Index

0.45 0.23

Below B NR

\* BB BB

 $\exists$ AAA

Credit Quality Breakdown 12-31-

Objective: Tenure:

Asset Allocation

# (USD) Vanguard Target Retirement 2050 Fund

Performance UI-31-2024	31-2024				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2022	-5.65	-14.21	-6.64	9.23	-17.46
2023	6.64	5.36	-3.46	10.79	20.17
2024		-			-0.05
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	12.19	4.99	9.34	8.32	7.47
Std 12-31-2023	20.17		10.93	7.99	7.51
Total Return	12.19	4.99	9.34	8.32	7.47
+/- Std Index	4.99	2.76	3.12	2.46	
+/- Cat Index	2.77	0.50	1.10	0.81	I
% Rank Cat	39	4	33	23	
No. in Cat	202	191	175	102	

2.31	2.29	30-day SEC Yield 02-05-24
		7-day Yield
Unsubsidized	Subsidized	

24.34 28.19 10.04

89

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

1.51

202 30

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

month-end, please call 800-662-7447 or visit www.vanguard.com

# Fees and Expenses

# Front-End Load % Sales Charges

Deferred Load %			NA
Fund Expenses			
Management Fees %			0.00
12b1 Expense %			NA
Gross Expense Ratio %			0.08
Risk and Return Profile			
	3 Yr	5Yr	10 Yr
	191 funds	191 funds 175 funds	102 funds

Fixed-Income Style

Avg E

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baM Avg

Avg

3 Yr 191 funds	5 Yr 175 funds	10 Yr 102 funds
3 <b>⊁</b>	<b>4</b> <b>★</b>	4 <b>★</b>
-Avg	-Avg	-Avg
Avg	+Avg	+Avg
3 Yr	5Yr	10 Yr
15.53	16.51	13.59
4.99	9.34	8.32
0.22	0.50	0.56
Standard Ind	<	Best Fit Index MSCI ACWI NR
		USD
3.0	ದ	-0.94
1.2	4	0.94
97.9	55	99.63
		2.22%
		18.04%
	3 Yr 191 funds 3 ★ -Avg Avg Avg 0.22 Standard Indo	175 fund -Avy +Avy +Avy 16.5 9.3 9.3 9.3 1.24 7.95

 $\mathbb{R}$ AA Credit Quality Breakdown 1

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BB

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03-01-2023	🕎 Silver	Medalist Rating 100.00	Morningstar
100.00	Data Coverage % 191 US Fund	100.00	Analyst-Driven%
Target-Date 2050	191 US Fund	***	Analyst-Driven % Morningstar Rating ***
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# Norningstar Mod Tgt





## **US Fund Target-Date** Morningstar Cat

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<b>)</b>

2013

Portfolio Analysis 12-31-2023	<b>is</b> 12-31-2023					
Asset Allocation %	Net %	Long %	Short %	Share Chg Share	Holdings:	Net Assets
Cash	2.02	2.64	0.62	since Amount		%
US Stocks	53.21	53.21	0.00	11-2023	2% lumover Ratio	
Non-US Stocks	35.29	35.29	0.00	⊕ 156 mil	156 mil Vanguard Total Stock Mkt Idx Insti	53.50
Bonds	9.42	9.43	0.01	⊕ 1,226 mil	Vanguard Total Intl Stock Index Inv	36.07
Other/Not Clsfd	0.06	0.07	0.00	⊕ 452 mil	Vanguard Total Bond Market II Idx	6.85
Total	100.00	100.62	0.62	⊕ 65 mil	65 mil Vanguard Total Intl Bd II Idx Insl	2.72
Equity Style	Portfolio Statistics	Port Rel	Rel	Sector Weightings	Stocks %	Rel Std Index
Value Blend Growth	P/F Ratio TTM		a n q7	∿ Cyclical	34.5	0.89
Гагде	P/C Ratio TTM			Basic Materials	ls 4.7	0.96
Wii.	P/B Ratio TTM			Consumer Cyclical	lical 11.0	1.04
S F	a	77009 1.48		Financial Services	ices 15.5	0.94
w						

olio Statistics	Port	Rel	· Re	Sector Weightings	Stocks %	Rel
Ratio TTM	Avg 17.9	1 ndex	Cat 0.97	∿ Cyclical	34.5	
Ratio TTM	12.1	1.04	0.95	Basic Materials	4.7	
Ratio TTM	2.5	1.09	0.93	Consumer Cyclical	11.0	
a	77009	1.48	0.94	Financial Services	15.5	
				Real Estate	3.2	
				∨ Sensitive	45.3	
Eff Maturity			8. 83	Communication Services	6.8	
Eff Duration			6.65	<b>♦</b> Energy	4.6	
Wtd Coupon			2.96	ndustrials	11.7	
Wtd Price				Technology	22.3	
				→ Defensive	20.2	
10 01 0000		,	0	Consumer Defensive	6.4	
12-31-2023		, 9	80 02 % DIOG	◆ Healthcare	11.2	
		,	9.83	Utilities	2.6	
			6.72			
		_	14.72			
			0.00			

0.48 **1.12**1.12
0.92
0.96
1.28

0.96 0.96 1.01 0.86

Minimum Initial Purchase:	Ticker:	Base Currency:	
\$1,000	VFIFX	USD	
Total Assets:	Incept:	Purchase Constraints:	
\$63,788.24 r	06-07-2006		

Objective: Manager: Tenure:

Asset Allocation

Multiple 11.0 Years Vanguard

Family:

Operations

Greater Asia Greater Europe

0.94 0.98

Americas Regional Exposure

Stocks % 64.1 17.5 18.3

Rel Std Index

1.03

0.43 0.22

0.00

≣.

# (USD) Vanguard Target Retirement 2055 Fund

renominance of -31-2024	31-2024				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2022	-5.69	-14.19	-6.63	9.23	-17.46
2023	6.64	5.36	-3.46	10.78	20.16
2024	1	1	1	1	-0.06
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	12.16	4.99	9.32	8.30	9.70
Std 12-31-2023	20.16		10.92	7.97	9.77
Total Return	12.16	4.99	9.32	8.30	9.70
+/- Std Index	4.96	2.76	3.11	2.44	
+/- Cat Index	2.83	0. 55	1.12	0.84	
% Rank Cat	41	48	41	28	
No. in Cat	201	190	174	87	

2.31	2.29	30-day SEC Yield 02-05-24
		7-day Yield
Unsubsidized	Subsidized	

24.33 30.35

31.98

89

88 ω

2013

2014

10.02

2.31 7.19

\_

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

1.84 36

2.45 16 156

130

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

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

# Fees and Expenses

## Deferred Load % Front-End Load % Sales Charges

ž

Fund Expenses			
Management Fees %			0.
12b1 Expense %			_
Gross Expense Ratio %			
<b>Risk and Return Profile</b>			
	3 Yr	5Yr	10
	190 funds	174 funds	87 fur
Morningstar Rating™	3 <b>⋆</b>	4⋆	4
Morningstar Risk	Low	-Avg	- <u>'</u> A
Morningstar Return	Avq	Avq	<b>+</b>

12.12%			Potential Cap Gains Exp
2.19%			12-Month Yield
99.63		97.97	R-Squared
0.94		1.25	Beta
-0.95		3.02	Alpha
MSCI ACWI NR USD	MSC		
Best Fit Index	Be	Standard Index	MPT Statistics
0.56	0.50	0.22	Sharpe Ratio
8.30	9.32	4.99	Mean
13.59	16.52	15.53	Standard Deviation
10 Yr	5 Yr	3 Yr	
+Avg	Avg	Avg	Morningstar Return
-Avg	-Avg	Low	Morningstar Risk
<b>4★</b>	<b>4★</b>	3 <b>★</b>	Morningstar Rating <sup>™</sup>
87 funds	174 funds	190 funds 17	!
10 Yr	5Yr	3 Yr	
			Risk and Return Profile
0.08			Gross Expense Ratio %
NA			12b1 Expense %
0.00			Management Fees %

# Morningstar Medalist Rating" Silver 03-01-2023

_	_		,	
100.00	Data Coverage %	100.00	\nalyst-Driven%	
Target-Date 2055	190 US Fund	***	Analyst-Driven% Morningstar Rating™	
	Т	-	co	













# Category Index





No. of Funds in Cat	212	201	212	213	207	229	221	206	193	238
% Rank Cat	1	49	24	78	41	51	37	48	27	ස
+/- Category Index	0.42	2.26	-0.53	-0.06	3.41	-0.07	0.68	0.43	-2.03	1.62
Performance Quartile (within category)										
+/- Standard Index	0.07	6.94	-2.68		3.50	5.95	-3.13	6.72	0.31	0.07
NAV/Price Total Return %	49.56 -0.06	49.59 20.16	42.17 -17.46	52.22 16.44	49.34 16.32	43.19 24.98	35.30 -7.89	39.23	32.91 8.88	30.83
Investment Style Equity/Stocks %	I <b>  </b>	88	88	86	91	89	88	88	88	89
	01-24	2023	2022	2021	2020	2019	2018	2017	2016	2015
	4k									
19,908	10k							\	<b>§</b>	<u> </u>
Category Average 25,354	20k	<b>\</b>	1	1		}			}	
2055 Fund 26,753	40k									
Vanguard Target Retirement	60k									
Growth of \$10,000	80k V									

Portfolio Analysis 12-31-2023	is 12-31-2023					
Asset Allocation %	Net %	Long % S	Short %	Share Chg	Share	Holdings:
Cash	1.99	2.60	0.61	since	Amount	11,185 Total Stocks , 14,977 To
US Stocks	53.08	53.08	0.00	11-2023	:	1% Lutilover nauo
Non-US Stocks	35.34	35.34	0.00	<b>①</b>	102 mil	Vanguard Total Stock Mk
Bonds	9.53	9.53	0.01	•	807 mil	807 mil Vanguard Total Intl Stock
Other/Not Clsfd	0.06	0.07	0.00	•	302 mil	302 mil Vanguard Total Bond Ma
Total	100.00	100.62	0.62	•	42 mil	42 mil Vanguard Total Intl Bd III
Equity Style	Portfolio Statistics	Port Rel Ava Index		Sector Weightings	ightings	
Value Blend Growth	P/E Ratio TTM		0.98	'b Cyclical	ICal	•
эбле	P/C Ratio TTM	12.1 1.04	0.95	Basi	Basic Materials	
P!W	P/B Ratio TTM	2.5 1.09	0.93	Cons	Consumer Cyclical	lical
ıs	Geo Avg Mkt Cap	76888 1.47	0.96	<b>⊕</b> Final	Financial Services	ces
llen	\$mil			Real Estate	Estate	

Con	Ţ								
Defe	ţ					мοη			
Tech					Avg Wtd Price	pay			
Indu	٥	2.96			Avg Wtd Coupon	N 4	Ī		
Ener	٩	6.65			Avg Eff Duration	6iH			
Com	#0	8.83			Avg Eff Maturity	-	Ext	Mod	ద
Sen	Ę					Style	me	Fixed-Income Style	Fixe
	E						t		
Rea	>				\$mil	llem			
Fina	<b>a</b>	0.96	1.47 0.96	76888	Geo Avg Mkt Cap		Ť		
COL	0	0.93	2.5 1.09	2.5	P/B Ratio TTM	oiM			

						Quality Breakdown 12-31-2023		гом	pay Avg		ē⊪ Avg	Mod Ext AVG
						12-31-2023			Avg Wtd Price	Avg Wtd Coupon	Avg Eff Duration	Avg err Maturity
0 00	0.00	14.69	16.65	9.73	58.28	Bond %				2.96	6.65	8.83
					3 [	3	1	1		٥	•	#

Credit AAA

 $\geq$ 

Rel Std Index	<b>3.0 5</b> Stocks %	ightings	Sector Weightings	Cat
2.71	42 mil Vanguard Total Intl Bd II Idx Insl	42 mil	•	0.62
6.97	302 mil Vanguard Total Bond Market II ldx	302 mil	<b>⊕</b>	0.00
36.13	Vanguard Total Intl Stock Index Inv	807 mil	<b>①</b>	0.01
53.37	Vanguard Total Stock Mkt Idx Instl	102 mil	<b>⊕</b>	0.00
Net Assets %	Share Holdings: Amount 11.185 Total Stocks , 14,977 Total Fixed-Income, 1% Turnover Ratio	Share Amount	Share Chg since 11-2023	ort % 0.61

Utilities 2.6	Healthcare 11.2	Consumer Defensive 6.4	Defensive 20.2	Technology 22.3	als	Energy 4.6	Communication Services 6.8	Sensitive 45.3	Real Estate 3.2	Financial Services 15.5	Consumer Cyclical 11.0	Basic Materials 4.7	Cyclical 34.5	
0.86	1.01	0.96	0.97	1.28	0.96	0.92	1.12	1.12	0.48	0.95	1.04	0.96	0.89	

	1.02 0.98 0.94	0.22 Rel Std Index	14.69 0.00 0.00 0.43	9.73 16.65	Bond %		I	2.90
Purchase Constraints: Incept: Type: Total Assets:				Utilities	Healthcare		Technology	industrials
— 08-18-2010 MF \$42,001.28 mil				2.6	11.2	<b>20.2</b>	22.3	11./
				0.86	1.01	0.97	1.28	0.96

Family:

Greater Europe Greater Asia

Americas Regional Exposure

Stocks % 64.1 17.6

Below B NR

BB

Tenure: Manager:

Multiple 11.0 Years Vanguard

ISIN: Ticker:

Base Currency:

Minimum Initial Purchase:

\$1,000 US92202E8479

Objective:

Asset Allocation

# (USD) Retirement 2060 Fund Vanguard Target

Performance 01-31-2024	31-2024				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2022	-5.68	-14.19	-6.64	9.23	-17.46
2023	6.64	5.39	-3.48	10.79	20.18
2024		1		1	-0.07
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	12.19	5.00	9.33	8.30	9.44
Std 12-31-2023	20.18		10.92	7.97	9.52
Total Return	12.19	5.00	9.33	8.30	9.44
+/- Std Index	4.99	2.77	3.12	2.44	
+/- Cat Index	3.01	0.68	1.22	0.92	
% Rank Cat	42	48	45	_	
No. in Cat	200	189	162	8	

## 30-day SEC Yield 02-05-24 7-day Yield Performance Disclosure 2.29

Subsidized

Unsubsidized 2.31

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

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

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

## Sales Charges Fees and Expenses

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

10	5Yr	3 Yr	
	Avg	Avg	Morningstar Return
	-Avg	Low	Morningstar Risk
	4⋆	3 <b>★</b>	Morningstar Rating <sup>™</sup>
8 fun	162 funds	189 funds	
10	5Yr	3 Yr	
			Risk and Return Profile
			Gross Expense Ratio %
7			12b1 Expense %
0.1			Management Fees %
			Fund Expenses

45.3 6.8 4.6 111.7 22.3 20.2 6.4 111.2

0.89
0.96
1.04
0.95
0.48
0.48
1.12
1.12
0.92
0.92
0.96
1.28
0.96
1.28

Risk and Return Profile			
	3 Yr 189 funds	5 Yr 162 funds	10 Yr 8 funds
Morningstar Rating™	3 <b>⊁</b>	<b>4★</b>	1
Morningstar Risk	Low	-Avg	
Morningstar Return	Avg	Avg	I
	3 Yr	5Yr	10 Yr
Standard Deviation	15.52	16.50	13.58
Mean	5.00	9.33	8.30
Sharpe Ratio	0.22	0.50	0.56
MPT Statistics	Standard Index		Best Fit Index MSCI ACWI NR USD
Alpha	3.03	33	-0.94
Beta	1.24	24	0.94
R-Squared	97.96	36	99.63
12-Month Yield			2.14%
Potential Cap Gains Exp			8.59%

03-01-2023	=	Medalist Rating 100.00	Morningstar
100.00	Data Coverage % 189 US Fund	100.00	Analyst-Driven %
Target-Date 2060	189 US Fund	***	Analyst-Driven % Morningstar Rating ** Standard Index
	Risk TR USD	Morningstar Mod Tgt	Standard Index

Morningstar Lifetime Mod 2060 TR USD Category Index

2060

US Fund Target-Date Morningstar Cat

_	_	2.17		10.04	24.35	26.75	88		2013											
9	_	2.63		2.27	7.16	28.20	88		2014				}							
43	71	1.80		0.11	-1.68	27.21	89		2015			Š								
106	21	-2.03		0.27	8.84	29.04	88		2016			8								
160	ឌ	0.30		6.70	21.36	34.63	88		2017			١	$\setminus$							
201	34	0.82		-3.11	-7.87	31.18	88		2018					}						
216	66	0.00		5.93	24.96	38.16	89		2019				}	{						
257	42	3.43		3.50	16.32	43.59	91		2020				1							
208	<u>∞</u>	0.12		6.25	16.44	48.04	86		2021					1	}					
212	25	-0.48		-2.68	-17.46	38.83	87		2022				3	3	3					
200	72	2.32		6.96	20.18	45.69	88		2023											
211	Ι	0.48		0.06	-0.07	45.66	Ι		01-24	4k	Ş	10k		20k	•	40k	60k	80k	1001	
No. of Funds in Cat	% Rank Cat	+/- Category Index	Performance Quartile (within category)	+/- Standard Index	Total Return %	NAV/Price		Investment Style Equity/Stocks %				19,908	- Standard Index	25 985	26,750 —— Catagory Aversage	2060 Fund	Vanguard Target Retirement	Gro		

Equity Style Portfolio Statistics    Value Bland Growth   P/E Ratio TTM	Portfolio Analysis 12-31-2023 Asset Allocation % Cash US Stocks Non-US Stocks Bonds Other/Not Clsfd Total
ap lics	Net % 2.09 53.02 35.37 9.45 0.06 100.00
Port Rel Avg Index 17.9 1.03 12.1 1.04 2.5 1.09 76836 1.47	Long % 2.71 53.02 35.37 9.46 0.07
Rel Cat 0.99 0.97 0.96	Short % 0.62 0.00 0.00 0.01 0.01 0.63
Sector Weightings  • Gyclical  • Basic Materials  • Consumer Cyclica  • Financial Services  • Real Estate	Share Chg Share since Amount 11-2023 56 mil
Stocks %  34.5  34.7  31.0  71.0  71.5  71.2  71.3  71.3  71.3  71.3	Share Holdings: Amount 11,185 fotal Stocks, 14,961 Total Fixed-Income, 1% Turnover Ratio 56 mil Vanguard Total Stock Mkt Idx Instl 139 mil Vanguard Total Intl Stock Index Inv 62 mil Vanguard Total Bond Market II Idx 23 mil Vanguard Total Intl Bd II Idx Inst
Rel Std Index <b>0.89</b> 0.96 1.04 0.95 0.48	Net Assets % 53.31 36.15 6.87 2.73

Fixed-Income Style			∨ Sensitive
Ltd Mod Ext	Avg Eff Maturity	8.83	Communication Services
	Avg Eff Duration	6.65	<b>♦</b> Energy
1 4	Avg Wtd Coupon	2.96	ndustrials
belv	Avg Wtd Price		Technology
мод			→ Defensive
Credit Quality Breakdown 12-31-2023	down 12-31-2023	Bond %	Consumer Defensive
AAA		58.07	Thealthcare
AA		9.84	Officies
Þ		16.72	
BBB		14.72	
BB		0.00	
В		0.00	
Below B		0.43	
NR		0.22	
Regional Exposure	Stocks %	Rel Std Index	
Americas	64.0	1.02	
Greater Europe	17.6	0.98	
Greater Asia	18.4	0.94	

atement. Please see important disclosures at the end of this report.	including, but not limited to, Morningstar Research Services LLC, registered with and governed by the U.S. Securities and Exchange Commission. This report is supplemental sales literature. If applicable it must	l are subject to change without notice	and (6) are not warranted to be correct, complete or accurate. Except as otherwise required by law, Morningstar shall not be responsible for any trading decisions, damages or other losses resulting from, or related	orningstar, (3) may not be copied or redistributed, (4) do not constitute investment advice offered by Morningstar, (5) are provided solely for informational purposes and therefore are not an offer to buy or sell a	opinions contained herein (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	20024 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.	
----------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

Objective: Manager: Tenure: Family:

Asset Allocation

Multiple 11.0 Years Vanguard

Ticker:

Base Currency:

ISIN:

Minimum Initial Purchase:

\$1,000 XSTTV US92202E8396

Type: Total Assets: Incept:

Purchase Constraints:

01-19-2012

\$23,026.92 mil

Operations

# (USD) Vanguard Target Retirement 2065 Fund

Performance 01-31-2024	31-2024				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2022	-5.63	-14.20	-6.60	9.24	-17.39
2023	6.64	5.34	-3.46	10.79	20.15
2024	-	1	1	1	-0.03
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	12.21	5.04	9.32	1	8.32
Std 12-31-2023	20.15		10.91		8.44
Total Return	12.21	5.04	9.32		8.32
+/- Std Index	5.01	2.81	3.10		
+/- Cat Index	3.03	0.72	1.21	1	I
% Rank Cat	43	49	78	I	
No. in Cat	175	131	9		

2.32	2.32	30-day SEC Yield 01-26-24
	1	7-day Yield
Unsubsidized	Subsidized	

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

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

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

US Stocks Non-US Stocks

Cash Asset Allocation % Portfolio Analysis 12-31

Bonds

Total Other/Not Clsfd

## Sales Charges Fees and Expenses

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

Fund Expenses			
Management Fees %			0.00
12b1 Expense %			₹
Gross Expense Ratio %			0.0
Risk and Return Profile			
	3 Υ	5Yr	10 Y
	131 funds	9 funds	ı
Morningstar Rating™	3 <b>★</b>		1
Morningstar Risk	Low		ı
Morningstar Return	Avg		ı
	3 Yr	5Yr	10 Y

2.08%			Potential Cap Gains Exp
2.06%			12-Month Yield
99.65		97.93	R-Squared
0.94		1.24	Beta
-0.90		3.07	Alpha
USD			
Best Fit Index MSCI ACWI NR	MS B	Standard Index	MPT Statistics
	0.50	0.23	Sharpe Ratio
	9.32	5.04	Mean
1	16.51	15.52	Standard Deviation
10 Yr	5 Yr	3 Yr	
	-	Avg	Morningstar Return
		Low	Morningstar Risk
		3 <b>★</b>	Morningstar Rating™
I	9 funds	131 funds	

03-01-2023	_	Medalist Rating 100.00	Morningstar
100.00	Data Coverage % 131 US Fund	100.00	Analyst-Driven %
Target-Date 2065+	131 US Fund	***	Analyst-Driven % Morningstar Rating **
	_	-	'n

		ng₁	
100.00	Data Coverage % 131 US Fund	100.00	Analyst-Driven %
Target-Date 2065+	131 US Fund	***	Analyst-Driven % Morningstar Rating **





# Morningstar Mod Tgt











# Category Index

# Morningstar Lifetime Mod 2060 TR USD

## 2065+ US Fund Target-Date Morningstar Cat

_			<u></u>	<u> </u>		<u> </u>	<u>-</u>	)14   2015	
_	<u> </u>	1			-	<u> </u>	· III	5	
	1						<u> </u>	2016	
						21.70	88	2017	
16	25	0.75		-3.19	-7.95	19.61	₩ 🚂	2018	
17	79	0.00		5.94	24.96	24.05	88	2019	
53	63	3.28		3.35	16.17	27.50	90	2020	
134	76	0.13		6.26	16.46	31.42	86	2021	
162	16	-0.41		-2.62	-17.39	25.44	87	2022	
175	ස	2.28		6.93	20.15	29.95	88	2023	<b>\}</b>
206	1	0.51		0.09	-0.03	29.94	I III	01-24	60k 40k 20k
No. of Funds in Cat	% Rank Cat	+/- Category Index	Performance Quartile (within category)	+/- Standard Index	Total Return %	NAV/Price	Investment Style Equity/Stocks %		<ul> <li>Vanguard Target Retirement 2065 Fund 16,636</li> <li>Category Average 16,428</li> <li>Standard Index 14,324</li> </ul>

2013

201

| |

0.89	34.5	¹⊌ Cyclical		.03	17.9	Ratio TTM
Rel Std Index	Stocks %	Sector Weightings		Rel Rel	Port Rel	olio Statistics
2.72	6 mil Vanguard Iotal Intl Bd II Idx Insl		83   •	0.62	100.62	100.00
6.85	Vanguard Total Bond Market II ldx	44 mil	: 66 •	0.	0.07	0.06
36.07	Vanguard Total Intl Stock Index Inv	119 mil	31 ⊕	0.01	9.42	9.41
53.27	15 mil Vanguard Total Stock Mkt Idx Instl	15 mil	30 ⊕	0	35.29	35.29
	1% Turnover Ratio	11-2023			52.98	52.98
%	11,185 Total Stocks, 14,908 Total Fixed-Income,	ce Amount		0	2.87	2.25
Net Assets	Holdings:	Share Chg Share		Short %	Long %	Net %
						1-2023
		-	-	-	-	-

■ Real Esta
1.47 1.00
1.01

4.7 11.0 15.5 3.2

0.96 1.04 0.95 0.48

lity Breakdown 12-31-2023		Гом	Avg Wtd Price	Avg Wtd Coupon	Avg Eff Duration	Ext Avg Eff Maturity	me Style	
Bond %				2.96	6.65	8.83		
	Consumer Defensive				★ Energy	Communication Services	∨ Sensitive	:

45.3 6.8 4.6 11.7 22.3 20.2 6.4 11.2

1.12 1.12 0.92 0.96 1.28 0.97 0.96 1.01

мот	
Credit Quality Breakdown 12-31-2023	Bond %
AAA	58.10
AA	9.82
A	16.71
BBB	14.71
BB	0.00
В	0.00

МОД			- '
Credit Quality Breakdown 12-31-2023	2023	Bond %	Local-board
AAA		58.10	I Healthcale
AA		9.82	Offillies
A		16.71	
BBB		14.71	
B BB		0.00	
Below B		0.43	
NR		0.22	
Regional Exposure	Stocks %	Rel Std Index	
Americas	64.0	1.02	
Greater Europe	17.6	0.98	
Greater Asia	18.4	0.94	

				.94
Total Assets:	Type:	Incept:	Purchase Constraints:	
\$6,315.10 mil	MF	07-12-2017		

Operations
Family:

Vanguard Multiple 6.6 Years

Ticker:

Base Currency:

ISIN:

Objective: Manager: Tenure:

Asset Allocation

Minimum Initial Purchase:

\$1,000 \LX\X US92202E6804



Operations Family: Manager: Tenure: Objective:	12-Month Yield Potential Cap Gains Exp	Beta R-Squared	MPT Statistics Alpha	Standard Deviation Mean Sharpe Ratio	Morningstar Rating <sup>TM</sup> Morningstar Risk Morningstar Return	Risk and Return Profile	Front-End Load % Deferred Load % Fund Expenses Management Fees % 12b1 Expense % Gross Expense Ratio %	does not guarantee future in principal value of an invests shares, when sold or redee their original cost. Current performance may be quoted herein, For performanonth-end, please call 800  Fees and Expenses  Sales Charges	Performance Disclosure The Overall Morningstar Rating is L derived from a weighted average o (if applicable) Morningstar metrics. The performance data quoted repre	7-day Yield 30-day SEC Yield	+/- Stirlinex 3.06 +/- Cat Index 3.06 % Rank Cat 40 No. in Cat 175	ıly 1 23 2	Duarterly Returns 1st Otr 2022 — 2023 6.64 2024 — -	Vanguard T Fund (USD)
Vanguard Multiple 1.7 Years Asset Allocation		1 1	Standard Index Best Fit Index	3 Yr 5 Yr	131 tunds 9 tunds	3Yr 5Yr		does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus an investor's strates, when sold or redeemed, may be worth more or less than their original cost.  Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end, please call 800-662-7447 or visit www.vanguard.com  Fees and Expenses  Sales Charges	Performance Disclosure The Overall Morningstar Rating is based on risk-adjusted returns, The Overall Morningstar Periods of the three-, five-, and 10-year derived from a weighted average of the three-, five-, and 10-year (if applicable) Morningstar meriods.  The performance data quoted represents past performance and The performance and The performance with the performance of the performance of the performance and the perf	Subsidized Unsubsidized — — — —	5 0 6 ¥	3 Yr 5 Yr 10 Yr	2nd Otr 3rd Otr 4th Otr — -6.57 9.21 5.39 -3.47 10.83	Vanguard Target Retirement 2070 Fund (USD)
Base Currency: Ticker: ISIN: Minimum Initial Purchase:	Regional Exposure 0.30% Americas Greater Europe Greater Asia	Below B NR	Index BBB	10 Yr Credit Quality Breakdown 12-31-2023 AAA AA AA	wod bem right	Fixed-Income Style	NA Equity Style  NA Value Bend Growth  O.00  NA lieus ppy educt	Portfolio Analysis 12-31-2023  Asset Allocation % Cash US Stocks Non-US Stocks Bonds Other/Not Clsfd  Total	rms,	dized — — — — — — — — — — — — — — — — — — —			Total %	ement 2070
USD VSVNX US92202E6648 'urchase: \$1,000	Stocks % 64.2 17.5 18.3			kdown 12-31-2023	Avg Wtd Coupon Avg Wtd Price		Portfolio Statistics P/E Ratio TTM P/C Ratio TTM P/B Ratio TTM P/B Ratio TTM Geo Avg Mkt Cap 77 \$mil	Net % 1.56 53.35 35.20 9.82 0.06						
	Rel Std Index 1.03 0.98 0.93	0.44 0.22	14.76 0.00 0.00	Bond % 57.73 10.01 16.83		8.83	Port Rel Rel Avg Index Cat 17.9 1.03 1.01 12.1 1.04 0.98 2.5 1.09 0.98 77167 1.48 1.00	Long % Short % 2.22 0.66 53.35 0.00 35.20 0.00 9.83 0.01 0.07 0.00 100.67 0.67	1 1 1					alist Rating <sup>™</sup> Analyst 100.00 Data Co 100.00
Purchase Constraints: Incept: Type: Total Assets:				■ Consumer Detensive ■ Healthcare ■ Utilities		Communication Services	Sector Weightings  Cyclical Basic Materials Consumer Cyclical Financial Services Real Estate	Share Chg Share I since Amount : 11-2023 1 mil V 9 mil	1 1 1		2020 2021 2022 — — — 88			-Driven %
				nsive		Services	es	Holdings: 11,185 Total Stocks, 15,107 Total Fixed-Income 2% Turnover Ratio 2% Authorized Total Stock Mkt Idx Instl Vanguard Total Intl Stock Index Inv Vanguard Total Bond Market II Idx Vanguard Total Intl Bd II Idx Insl	2.38 0.46 58 — 175 206		20.23 01-24		80k 60k 40k	
— 06-28-2022 MF \$522.58 mil				6.4 11.2 2.6	11.7 22.3 20.2	<b>45.4</b> 6.8	Stocks %  34.4  4.7  11.0  15.5  3.2	107 Total Fixed-Income. :k Mkt Idx Instl Stock Index Inv d Market II Idx Bd II Idx Insl	+/- Category Index % Rank Cat No. of Funds in Cat	Total Return % +/- Standard Index  Performance Quartile (within category)	Investment Style Equity/Stocks % NAV/Price	Standard Index 11,464	Grow	Category Index Morningstar Cat Morningstar US Fund Target-Date Lifetime Mod 2060 2065+ TR USD
				0.96 1.01 0.86	0.96 1.28 <b>0.97</b>	1.12 1.12	Rel Std Index <b>0.89</b> 0.96 1.04 0.94 0.48	Net Assets % 53.65 35.98 7.07 2.91					Retirement	ar Cat arget-Date

# (USD) Vanguard Target Retirement Income Fund

Performance 01-31-2024	31-2024				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2022	-4.77	-7.37	-4.64	3.74	-12.74
2023	4.23	1.36	-2.35	7.34	10.74
2024	1	1	1		-0.15
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	6.40	0.62	4.17	4.10	4.84
Std 12-31-2023	10.74		4.83	4.09	4.87
Total Return	6.40	0.62	4.17	4.10	4.84
+/- Std Index	-0.80	-1.61	-2.05	-1.77	1
+/- Cat Index	0.41	-0.80	-0.48	-0.09	I
% Rank Cat	37	#	40	35	
No. in Cat	152	149	130	79	

# 30-day SEC Yield 02-05-24

7-day Yield

Subsidized 2.97

Unsubsidized 2.99

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

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

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

Bonds

US Stocks Cash

Asset Allocatio

Non-US Stock

Other/Not Cls

Equity Style Total

# Fees and Expenses

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

and Expenses			
Management Fees %			0.00
12b1 Expense %			NA
Gross Expense Ratio %			0.08
Risk and Return Profile			
	3 Yr	5Yr	10 Yr
	149 funds	130 funds	79 funds
Morningstar Rating <sup>™</sup>	3★	4⋆	4★
Morningstar Risk	Avg	Avg	-Avg
Morningstar Return	Avg	Avg	Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	8/8	7 9 /	S 10

Fixed-Income Style

qбiH baM

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

<b>Risk and Return Profile</b>			
	3 Yr 149 funds 1	5 Yr 130 funds	10 Yr 79 funds
Morningstar Rating™	3 <b>★</b>	<b>4★</b>	<b>4★</b>
Morningstar Risk	Avg	Avg	-Avg
Morningstar Return	Avg	Avg	Avg
	3 Yr	5 Yr	10 Yr
Standard Deviation	8.48	7.84	6.10
Mean	0.62	4.17	4.10
Sharpe Ratio	-0.20	0.30	0.46
MPT Statistics	Standard Index		Best Fit Index Morningstar US Mod Con Tgt Alloc
Alpha	-1.87	7	-1.21
Beta	0.67	7	0.86
R-Squared	95.47	7	98.85
12-Month Yield			2.95%
Potential Cap Gains Exp			7.40%

_		03-01-2023	Silver	ating "	Morningstar	
		100.00	Data Coverage % 149 US Fund	100.00	Analyst-Driven %	
	Retirement	Target-Date	149 US Fund	***	Analyst-Driven % Morningstar Rating™	





# Morningstar Mod Tgt

# Category Index

## Mod Incm TR USD Morningstar Lifetime

## Retirement **US Fund Target-Date** Morningstar Cat

			2	2	2				C 202-1	FULULIO Allalysis   Z-31-2023	O Allaly	
									1 2022	1 1 3	<b>A</b>	Double
No. of Funds in Cat	162	152	161	167	168	183	187	175	171	172	272	293
% Rank Cat	1	41	72	63	36	49	21	83	41	7	19	56
+/- Category Index	-0.12	0.67	-0.50	-2.37	-0.54	-0.11	0.21	-0.07	-0.73	1.12	1.45	-0.58
Performance Quartile (within category)												
Total Return % +/- Standard Index	-0.15 -0.03	10.74 -2.49	-12.74 2.03	5.25 -4.94	10.02 -2.80	13.16 -5.87	-1.99 2.77	8.47 -6.18	5.25 -3.32	-0.17 1.62	0.65	5.87 -8.44
NAV/Price	13.00	13.02	12.24		14.93	14.05	12.75	13.55	12.81	12.45	12.91	12.50
Investment Style Fixed-Income/Bond %	I III	65	සු 🏬	64	88	67	69	67	68	68	66	88
	01-24	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
13,300	10k											
15,088	20k	<b>\</b> }	<b>{</b> {		K	$\mathbb{R}$	<b></b>				}	
Income Fund 15,778 — Category Average	40k											
Growth of \$10,000  Wanguard Target Retirement												

alysi	alysis 12-31-2023					
on %	Net %	Long %	Short %	Share Chg Share	Holdings:	
	2.92	6.52	3.59	since Amount	9,684 Total Stocks , 18,456 Total Fixed-Income ,	
	17.49	17.49	0.00		4%   unlover nauo	
ŝ	11.73	11.73	0.00	<ul><li>1,420 mil</li></ul>	Vanguard Total Bond Market II Idx	
	67.82	67.85	0.03	① 30 mil	Vanguard Total Stock Mkt Idx Instl	
sfd	0.04	0.04	0.00	⊕ 223 mil	Vanguard Total Intl Bd II Idx Insl	
	100.00	103.63	3.63	⊕ 248 mil	248 mil Vanguard Shrt-Term Infl-Prot Sec I 235 mil Vanguard Total Intl Stock Index Inv	
	Portfolio Statistics	Port	Rel Rel		C	1
∌	P/F Ratio TTM		Index Cat	Sector Weightings	Stocks %	₽
ague	P/C Ratio TTM			∿ Cyclical	34.5	
οiM	P/B Ratio TTM	2.4	1.09 0.98	Basic Materials	als 4.7	
IS I	Geo Avg Mkt Cap	76661 1.47	.47 0.98	Consumer Cyclical	clical 11.0	
llem	\$mil			Financial Services	vices 15.6	

0.00 0.03 0.00 3.63 3.63 8x Cat ex Cat 0.99 94 0.97 99 0.98 17 0.98 17 0.98 17 0.98	30 mil Vanguard  23 mil Vanguard  248 mil Vanguard  255 mil Vanguard  35 ector Weightings  Cyclical  Basic Materials  Consumer Cyclical  Financial Services  Real Estate  Sensitive  Sensitive	Vanguard Total Stock Mkt Idx InstI Vanguard Total Intl Bd II Idx InstI Vanguard Shrt-Term Infl-Prot Sec I Vanguard Total Intl Stock Index Inv Stocks %  34.5  Is 4.7  Islical 15.6  ices 3.2  45.3  on Services 6.8  4.7	Stocks % 34.5 4.7 11.0 15.6 3.2 45.3 6.8 4.6	17.58 16.22 16.20 11.99 Rel Std Index 0.89 0.96 1.04 0.95 0.48 1.12 0.92
	∴ Basic Materia ∴ Consumer Cyc	elical	4.7	0.96 1.04
		ices	15.6 3.2	0.95 0.48
7.42 5.71	_ `	on Services	<b>45.3</b>	1.12
2.45		001	4.6	0.92
94.07			11.7 22.3	0.96 1.27
	→ Defensive		20.2	0.97
66.71	Consumer Defensive Healthcare	fensive	6.4 11.2	0.96 1.01
13.22	Utilities		2.6	0.86
11.52 0.00 0.00				

Minimum Initial Purchase:		Ticker:	Base Currency:	
\$1,000	US92202E1029	VTINX	USD	
Total Assets:	Туре:	Incept:	Purchase Constraints:	
\$36,100.61 mil	MF	10-27-2003		

Objective: Manager:

Tenure: Family:

Multiple Vanguard 11.0 Years Asset Allocation

Greater Europe Greater Asia

63.9 17.7 18.5

1.02 0.99 0.94

Rel Std Index

0.36 0.20

Americas Regional Exposure Below B

묾

888

 $\triangleright$   $\trianglerighteq$ 

Credit Quality Breakdown 12-31-2023 AAA

=	<
	)
Ì	2
2	5
2	3
_	◉

Net Assets %

37.31



# Vanguard Target Retirement 2020 Trust II

Balanced fund (stocks and bonds)

## **Fund facts**

14	02/29/08	0.075%	\$6,828 MM	1 2 3 4 5
numk	date	as of 03/31/23	assets	Low < High
Ŧ	Inception	Expense ratio	Total net	Risk level

# Investment objective

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

# Investment strategy

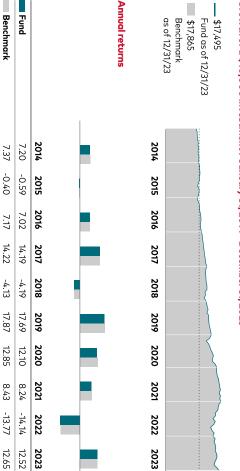
to bonds and other fixed income investments will increase. Within seven years after 2020, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term Market Index Trust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

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

## **Benchmark**

Target Retirement 2020 Composite Ix

# Growth of a \$10,000 investment: January 31, 2014—December 31, 2023



# Total returns

	reriods ended December 31, 2023	

64

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	7.99%	12.52%	12.52%	1.50%	6.65%	5.58%
Benchmark	7.97%	12.65%	12.65%	1.74%	6.98%	5.81%

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

Figures for periods of less than one year are cumulative returns. All other figures represent average annual investment, as you cannot invest directly in an index.

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

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

# Vanguard Target Retirement 2020 Trust II

Balanced fund (stocks and bonds)

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





\*Fund holdings are subject to change.



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# Plain talk about risk

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

# Note on frequent trading restrictions

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

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



# Vanguard Target Retirement 2025 Trust II

Balanced fund (stocks and bonds)

#### Fund facts

1475	02/29/08	0.075%	\$15,242 MM	4 5	3 4	_	
number	date	as of 03/31/23	h assets	J. Fig		Low ←	ı
Fund	Inception	Expense ratio	Total net		<u></u>	Risk level	æ

## Investment objective

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

### nvestment strategy

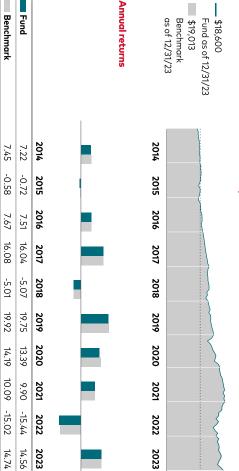
to bonds and other fixed income investments will increase. Within seven years after 2025, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term Market Index Trust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

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

#### **Benchmark**

Target Retirement 2025 Composite lx

# Growth of a \$10,000 investment: January 31, 2014—December 31, 2023



#### Total returns

	reriods ended December 31, 20	,

Quarte	rter Year to date	e One year	Three years	Five years	Ten years
Fund 8.90%	0% 14.56%	14.56%	2.11%	7.65%	6.19%
Benchmark 8.85%	5% 14.74%	14.74%	2.39%	8.01%	6.43%

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

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

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

Index through June 2, 2013, and the FTSE Global All Cap ex US Index therafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Bloomberg U.S. Aggregate Float Adjusted Index thereafter, as well as the Bloomberg U.S. Treasury Inflation-Protected Securities (TIPS) 0-5 Year Index; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index Hedged beginning June 3, 2013; and for U.S. stocks, the Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005, the MSCI US Broad Market Index through June 2, 2013, and the CRSP US Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes 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 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

# Vanguard Target Retirement 2025 Trust II

Balanced fund (stocks and bonds)

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



Inst Ttl Intl Stk Idx Trust II	Total Bond Market II Index	Total Stock Market Index Plus
21.8	28.7	31.9%



# <sup>†</sup>Fund holdings are subject to change.

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## Plain talk about risk

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

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



# Vanguard Target Retirement 2030 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

1/	02/29/08	0.075%	\$19,994 MM	1 2 3 4 5
numk	date	as of 03/31/23	assets	Low < High
77	Inception	Expense ratio	Total net	Risk level

## Investment objective

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

### Investment strateg)

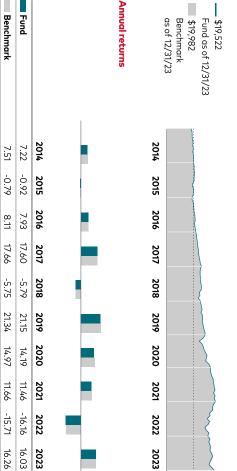
to bonds and other fixed income investments will increase. Within seven years after 2030, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term Market Index Trust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

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

#### **Benchmark**

Target Retirement 2030 Composite lx

# Growth of a \$10,000 investment: January 31, 2014—December 31, 2023



#### Total returns

Periods ended D
Periods ended December 31, 2023

68

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	9.54%	16.03%	16.03%	2.73%	8.45%	6.66%
Benchmark	9.51%	16.26%	16.26%	3.05%	8.83%	6.92%

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

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

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

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

# Vanguard Target Retirement 2030 Trust II

Balanced fund (stocks and bonds)

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







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## Plain talk about risk

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

# Note on frequent trading restrictions

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

# Vanguard Target Retirement 2035 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

							- 1
1477	02/29/08	0.075%	\$17,318 MM	ω 4 5	ω	1 2	
number	date	as of 03/31/21	assets	$\rightarrow$ High		Low ←	ı —
Fund	Inception	Expense ratio	Totalnet		_	Risk leve	æ

## Investment objective

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

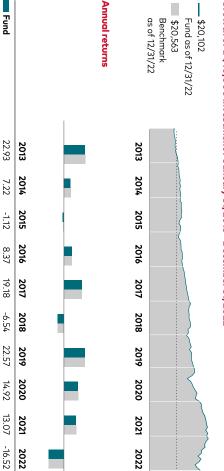
to bonds and other fixed income investments will increase. Within seven years after 2035, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term Market Index Trust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

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

#### Benchmark

Target Retirement 2035 Composite Ix

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



#### **Total returns**

Benchmark Fund

23.27

7.57

-1.02

8.55

19.25

-6.48

22.76

15.67

13.24

-16.10

70

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

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

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

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

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

Target Retirement 2035 Composite Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for emerging-market stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Bloomberg U.S. Aggregate Float Adjusted Index thereafter; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index Hedged beginning June 3, 2013; and for U.S. stocks, the Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005, the MSCI US Broad Index Through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Index Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 20, 2005, the MSCI US Broad Inde Market Index through June 2, 2013, and the CRSP US Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes

# Vanguard Target Retirement 2035 Trust II

Balanced fund (stocks and bonds)

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



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



# \*Fund holdings are subject to change.

## Total Intl Bnd II

71

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## Plain talk about risk

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

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# Vanguard Target Retirement 2040 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

1478	02/29/08	0.075%	\$18,267 MM	ω 4 5	1 2
numbei	date	as of 03/31/23	assets	→ High	Low <
Func	Inception	Expense ratio	Total net		Risk level

## Investment objective

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

### Investment strategy

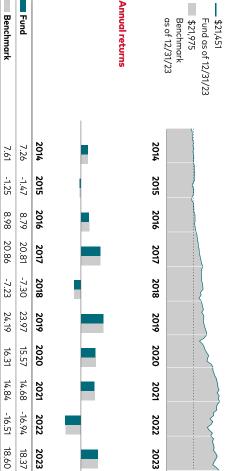
to bonds and other fixed income investments will increase. Within seven years after 2040, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund. Bond II Index Fund, and Vanguard Short-Term Market Index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

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

#### Benchmark

Target Retirement 2040 Composite Ix

# Growth of a \$10,000 investment: January 31, 2014—December 31, 2023



#### Total returns

	Teriods ended December 31 2023

72

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	10.23%	18.37%	18.37%	4.08%	10.07%	7.60%
Benchmark	10.20%	18.60%	18.60%	4.38%	10.43%	7.87%

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

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

# Vanguard Target Retirement 2040 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 Stock Market Index Plus
•	30.8	47.0%



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

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# Vanguard Target Retirement 2045 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

1479	02/29/08	0.075%	\$16,738 MM	3 4 5	3		
number	date	as of 03/31/23	assets	→ Hig		Low <	<u>ا</u> ت
Fund	Inception	Expense ratio	Total net		<u>e</u>	Risk level	쿗.

## Investment objective

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

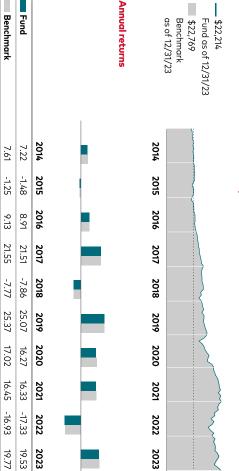
to bonds and other fixed income investments will increase. Within seven years after 2045, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term Market Index Trust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

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

#### Benchmark

Target Retirement 2045 Composite Ix

# Growth of a \$10,000 investment: January 31, 2014—December 31, 2023



#### **Total returns**

Fund

74

	Periods ended	
	Periods ended December 31, 2023	7

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	10.56%	19.53%	19.53%	4.75%	10.82%	7.97%
Benchmark	10.54%	19.77%	19.77%	5.03%	11.20%	8.25%
!						

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

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

# Vanguard Target Retirement 2045 Trust II

Balanced fund (stocks and bonds)

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







# Inst Ttl Intl Stk Idx Trust II Fund holdings are subject to change.

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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 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**

			-		
Low         ←         High         assets         as of 03/31/21         date         r	Low < High	assets	as of 03/31/21	date	number
1 2 3 4 5 \$13,395 MM 0.075% 02/29/08		\$13,395 MM	0.075%	02/29/08	1480

## Investment objective

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

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 Vanguard Total Bond Market II Index Fund are: Vanguard Total Stock Market Index Fund, Retirement Income Trust II. The underlying holdings asset allocation should resemble that of the Target decrease while the percentage of assets allocated the percentage of assets allocated to stocks will become more conservative over time, meaning that target year). The trust's asset allocation will the workforce in or within a few years of 2050 (the The trust invests in other Vanguard mutual funds

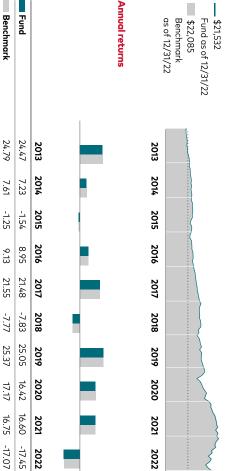
small-capitalization stocks Vanguard to minimize foreign currency exposure). The trust's indirect stock holdings are a diversified obligations issued by the U.S. Treasury; government, U.S. agency, and investment-grade mix of U.S. and foreign large-, mid-, and currencies other than the U.S. dollar (but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

#### Benchmark

Target Retirement 2050 Composite Ix

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

\$22,085



#### **Total returns**

Fund

76

Periods ended
September 30,
2023

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

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

# Vanguard Target Retirement 2050 Trust II

Balanced fund (stocks and bonds)

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



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



77

# †Fund holdings are subject to change.

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## Plain talk about risk

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# Vanguard Target Retirement 2055 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

1489	08/31/10	0.075%	\$10,235 MM	4 5	2 3	_	
number	date	as of 03/31/23	assets	→ Hig		Low <	ı —
Fund	Inception	Expense ratio	Total net	,	<u>e</u>	Risk leve	æ

## Investment objective

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

### nvestment strategy

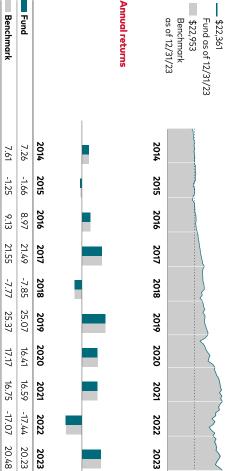
to bonds and other fixed income investments will increase. Within seven years after 2055, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term Market Index Trust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

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

#### Benchmark

Target Retirement 2055 Composite lx

# Growth of a \$10,000 investment: January 31, 2014—December 31, 2023



#### Total returns

Periods ended December 31, 2023

78

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	10.81%	20.23%	20.23%	4.99%	11.00%	8.05%
Benchmark	10.78%	20.48%	20.48%	5.27%	11.37%	8.34%

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

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

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

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

# Vanguard Target Retirement 2055 Trust II

Balanced fund (stocks and bonds)

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







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## Plain talk about risk

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

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# Vanguard Target Retirement 2060 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

1 2 3 4 5 \$5,546 MM	Low $\langle \cdots \rangle$ High assets	Risk level Total net
0.075%	as of 03/31/23	Expense ratio
03/01/12	date	Inception
1693	number	Fund

## Investment objective

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

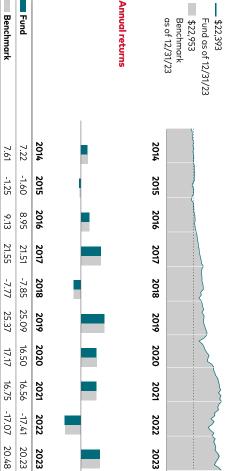
to bonds and other fixed income investments will increase. Within seven years after 2060, the trust's and trusts according to an asset allocation strategy designed for investors planning to retire and leave Inflation-Protected Securities Fund Bond II Index Fund, and Vanguard Short-Term Market Index Trust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

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

#### **Benchmark**

Target Retirement 2060 Composite Ix

# Growth of a \$10,000 investment: January 31, 2014—December 31, 2023



#### Total returns

Fund

Periods ended December 31, 2023

80

	Quarter	Year to date	One year	Three years	Five years	Ten years
Fund	10.81%	20.23%	20.23%	5.00%	11.02%	8.06%
Benchmark	10.78%	20.48%	20.48%	5.27%	11.37%	8.34%

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

# Vanguard Target Retirement 2060 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 Stock Market Index Plus
	36.4	53.9%



81

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## Plain talk about risk

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

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# Vanguard Target Retirement 2065 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

07/17/17	0.075%	\$1,541 MM	3 4 5	1 2
Inception	Expense ratio	Total net	Ligh	Risk level

## Investment objective

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

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

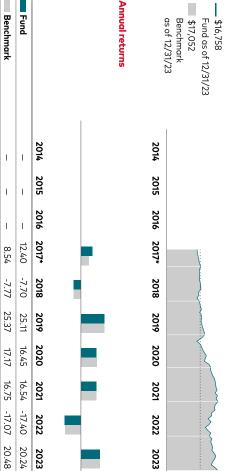
small-capitalization stocks Vanguard to minimize foreign currency exposure). The trust's indirect stock holdings are a diversified obligations issued by the U.S. Treasury; government, U.S. agency, and investment-grade mix of U.S. and foreign large-, mid-, and currencies other than the U.S. dollar (but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

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#### Benchmark

Target Retirement 2065 Composite Ix

# Growth of a \$10,000 investment : July 31, 2017—December 31, 2023



#### **Total returns**

Fund

Periods ended December 31, 2023

82

	Quarter	Year to date	One year	Three years	Five years	Since inception
nd	10.83%	20.24%	20.24%	4.99%	11.02%	9.05%
nchmark	10.78%	20.48%	20.48%	5.27%	11.37%	I

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

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

<sup>\*</sup> Partial return since fund started, July 17, 2017.

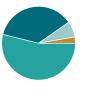
Target Retirement 2065 Composite Ix: Derived by applying the fund's target asset allocation to the results of the following benchmarks: the FTSE Global All Cap ex US Index for international stocks, the Bloomberg U.S. Aggregate Float Adjusted Index for U.S. bonds, the Bloomberg Global Aggregate ex-USD 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. F1794 122023

83

# Vanguard Target Retirement 2065 Trust II

Balanced fund (stocks and bonds)

## Allocation of underlying funds







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## Plain talk about risk

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

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# Vanguard Target Retirement 2070 Trust II

Balanced fund (stocks and bonds)

#### **Fund facts**

V006	04/07/22	0.075%	\$105 MM	4 5	2 3 4	_
number	date	as of 03/31/23	assets	→ High		Low <
Fund	Inception	Expense ratio	Total net	/	<u>e</u>	Risk leve

## Investment objective

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

### nvestment strategy

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

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

#### Benchmark

Target Retirement 2070 Composite Index

#### Total returns

Periods ended December 31, 2023

	Quarter	Year to date	One year	Since inception
Fund	10.80%	20.23%	20.23%	3.81%
Benchmark	10.78%	20.48%	20.48%	I

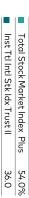
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investment, as you cannot invest directly in an index. <u>vanguard.com/performance</u>. The performance of an index is not an exact representation of any particular

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

## Allocation of underlying funds







84

#### 85

# Vanguard Target Retirement 2070 Trust II

Balanced fund (stocks and bonds)

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## Plain talk about risk

other funds with a similar investment objective. Investments in Target Retirement Trusts are subject to the risks of their underlying funds. The year in the trust name refers to the approximate year 2070 when an investor in the trust would retire and leave the workforce. The trust will gradually shift its emphasis from more aggressive investments to more 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 2070 Trust II is not guaranteed at any time, including on or after the target date. funds, the trust also is subject to asset allocation risk, which is the chance that the selection of underlying funds and the allocation of fund assets will cause the trust to underperform the trust's allocation between underlying funds gradually changes, the trust's overall level of risk also will decline. In addition to the risks inherent in the asset classes of the underlying

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

Visit <u>vanguard.com</u> to obtain a prospectus or, if available, a summary prospectus. Investment objectives, risks, charges, expenses, and other important information 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

1471	02/29/08	0.075%	\$4,588 MM	4 5	ω	1 2
number	date	as of 03/31/23	assets	ightarrow High		Low <
Fund	Inception	Expense ratio	Total net		<u></u>	Risk leve

## Investment objective

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

### Investment strategy

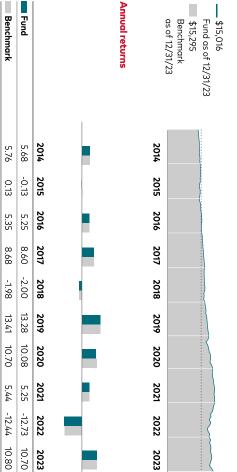
The trust invests in other Vanguard mutual funds and trusts according to an asset allocation strategy designed for investors currently in retirement. The underlying holdings are: Vanguard Total Stock Market Index Fund, Vanguard Total Bond Market II Index Fund, Vanguard Institutional Total International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

# Growth of a \$10,000 investment: January 31, 2014—December 31, 2023



#### Total returns

Fund

7.32%	Quarter
10.70%	Year to date
10.70%	One year
0.56%	Three years
4.86%	Five years
4.13%	Ten years

Periods ended December 31, 2023

86

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

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

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

# Vanguard Target Retirement Income Trust II

Balanced fund (stocks and bonds)

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



STerm Inf Pro Sec Idx Fund	Total Stock Market Index Plus	Total Bond Market II Index
16.4	17.7	37.5%

\*Fund holdings are subject to change.



87

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### Plain talk about risk

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

2 M 2 Z

Bloomberg US Agg

Category Index

Bond TR USD

Core Bond US Fund Intermediate Morningstar Cat

6 6 8 8 8 9 8

Growth of \$10,000

Vanguard Total Bond Market

Performance 01-31-2024	31-2024				
Quarterly Returns	1st Otr	2nd Otr	3rd Otr	4th Otr	Total %
2022	-5.98	-4.71	-4.65	1.67	-13.15
2023	3.16	-0.90	-3.08	6.69	5.72
2024		1			-0.23
Trailing Returns	1 Yr	3 Yr	5 Yr	10 Yr	Incept
Load-adj Mthly	2.21	-3.16	0.88	1.62	4.26
Std 12-31-2023	5.72		1.13	1.80	4.28
Total Return	2.21	-3.16	0.88	1.62	4.26
+/- Std Index	0.11	0.01	0.05	-0.01	1
+/- Cat Index	0.11	0.01	0.05	-0.01	
% Rank Cat	52	40	42	36	
No. in Cat	474	425	386	277	

4.33	4.33	30-day SEC Yield 02-05-24
		7-day Yield
Unsubsidized	Subsidized	

-0.11

-0.06

-0.14

-0.04

0.03

-0.02

-0.11

-0.14

0.19 5.72 9.71

0.05

+/- Standard Index

13.15

-0.23 9.66

Total Return % NAV/Price

9.48 99

98

Fixed-Income/Bond %

nvestment Style

2022

2023

01-24

4

200 \$

11,690

Category Average

Standard Index

11,670

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

-0.11

-0.06

-0.14 28

-0.04 985 63

0.03

-0.02

0.01 430 ည္သ

0.23

-0.14

0.19

0.05

Performance Quartile (within category)

67

30

1079

1038

1042

986 55

1019 30

415

423

453 40

471

489

No. of Funds in Cat

% Rank Cat +/- Category Index

#

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

Portfolio Analysis 12-31-2023

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

### Fees and Expenses

Front-End Load % Deferred Load %	N N
Fund Expenses	
Management Fees %	0.03
12b1 Expense %	NA
Gross Expense Ratio %	0.04

Avg	Avg	Avg	Morningstar Return
Avg	Avg	Avg	Morningstar Risk
3★	3★	3★	Morningstar Rating <sup>™</sup>
277 funds	386 funds	425 funds	!
10 Yr	5 Yr	3 Yr	
			<b>Risk and Return Profile</b>
0.04			Gross Expense Ratio %
NA			12b1 Expense %
0.03			Management Fees %
			Fund Expenses

Risk and Return Profile			
	3 Yr	5Yr	10 Yr
	425 funds	386 funds	277 funds
∕lorningstar Rating™	<b>3</b> <b>★</b>	3 <b>★</b>	3 <b>⊁</b>
∕lorningstar Risk	Avg	Avg	Avg
/lorningstar Return	Avg	Avg	Avg
	3 Yr	5Yr	10 Yr
tandard Deviation	7.21	6.17	4.80
/lean	-3.16	0.88	1.62
harpe Ratio	-0.79	-0.16	0.07
NPT Statistics	Standard Index	Bloor	Best Fit Index Bloomberg US Agg
llpha	-0.02		-0.02
eta	1.00	0	1.00
l-Squared	99.85	5	99.85
2-Month Yield			3.16%
otential Cap Gains Exp			12.16%

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P 31 P B >

Morningstar Medalist Rat	60ld			2013 2014	97 95	10.56   10.87 -2 14   5 90
ing _			-			
<b>Analyst</b> 100.00	<b>Data Co</b> 100.00			2015	98	10.64
Analyst-Driven % 100.00	<b>Data Coverage %</b> 100.00			2016	98	10.65
		Bond		2017	97	10.75
Morningstar Rating™ ★★★	425 US Fund Intermediate Core			2018	99	10.45
Rating	d Core			2019	97	11.05
Standa	Bond -			2020	99	11.62
Standard Index Bloomberg US Agg	Bond TR USD			2021	97	11.19
Agg	Č		1	202	99	9.4

Fixed Income Ctub	Ilsm2 biM egns1	Equity Style Value Blend Growth	Total	Other/Not Clsfd	Bonds	Non-US Stocks	US Stocks	Cash	Asset Allocation %
	P/C Ratio TTM P/B Ratio TTM Geo Avg Mkt Cap \$mil	Portfolio Statistics	100.00	0.01	98.43	0.00	0.00	1.56	Net %
		Port Rel Avg Index	100.08	0.01	98.51	0.00	0.00	1.56	Long %
		Rel Cat	0.08	0.00	0.08	0.00	0.00	0.00	Short %
<b>⊕</b>	<b>+ + +</b>			_	_	1	C207-111	since	Share Chg

1,356 mil 1,532 mil 1,470 mil

1,766 mil 1,745 mil

Share Amount

Holdings : 0 Total Stocks , 14,805 Total Fixed-Income, 40% Turnover Ratio United States Treasury Notes 1.875%

Net Assets

1,355 mil 1,503 mil

United United

States Treasury Notes 2.875% States Treasury Notes 3.5%

1,298 mil 1,265 mil 1,426 mil

> United States Treasury Notes 3.875% United States Treasury Notes 2.75% United States Treasury Notes 2% United States Treasury Notes 4.125% United States Treasury Notes 0.75% United States Treasury Notes 1.375%

na	Avg Wtd Price	92.85
2 02		92.85
MOT	wol	
redit Ouality Bre	Credit Quality Breakdown 12-31-2023	Bond %

1,388 mil 1,333 mil 1,284 mil

1,424 mil

United States Treasury Notes 1.625% United States Treasury Notes 0.875% United States Treasury Notes 3.375% United States Treasury Notes 1.25%

0.39

0.39 0.40 0.40 0.40 0.41

0.36

	1	Healthcare	
	1	Consumer Defensive	
1	I	→ Defensive	
		Technology	Rel Std Index
1	I	Industrials	-0.02
	I	Energy	0.00
	88	Communication Services	0.00
1	ı	∨ Sensitive	
1	1	Real Estate	13.57
	I	Financial Services	12.72
1	I	Consumer Cyclical	_
1	I	Basic Materials	_
I	I	<b>y</b> Cyclical	Rond %
Rel Std Index	Stocks %	Sector Weightings	S
0.35 0.35	United States Treasury Notes 0.625% United States Treasury Notes 4.875%	1,388 mil 1,092 mil	6.3/ 3.21 ⊕ 92.85 ⊕

		GLOCKOL YOUR		Utilities	I
perations					
amily:	Vanguard	Base Currency:	USD	Purchase Constraints:	I
∕lanager:	Joshua Barrickman	Ticker:	VBTIX	Incept	09-18-1995
enure:	11.0 Years	ISIN:	US9219375048	Туре:	MF
)bjective:	Income	Minimum Initial Purchase:	\$5 mil	Total Assets:	\$316,326.45 mil
)2024 Morningstar, A	I Rights Reserved, Unless otherwise provided	in a separate agreement, you may use this report o	only in the country in which its orio	All floths deserved. Unless otherwise provided in a separate agreement, you may use this proof only in the country in which its original distributor is based. The information data, analyses and	and I

Greater Europe Greater Asia

Americas Regional Exposure Below B

88 88

Fa Ma Te Ob

0.46 0.47

Operations Family: Var Manager: Mt Tenure: 15. Objective: For	12-Month Yield Potential Cap Gains Exp	Beta R-Squared	MPT Statistics	Sharpe Ratio	Standard Deviation	Morningstar Return	Morningstar Rating™ Morningstar Risk	Risk and Return Profile	Gross Expense Ratio %	Management Fees %	Find Expanses	Front-End Load %	Sales Charges	quoted herein. For performance data current to the most recent month-end, please call 800-662-7447 or visit www.vanguard.com Fees and Expenses	shares, when sold or redeemed, may be worth more or less than their original cost.  Current performance may be lower or higher than return data	does not guarantee future results. The investment return and principal value of an investment will fluctuate: thus an investor's	(if applicable) Morningstar metrics.  The performance data quoted represents past performance and	Performance Disclosure The Overall Morningstar Rating is based on risk-adjusted returns, derived from a weighted average of the three-, five-, and 10-year	30-day SEC Yield	7-day Yield		+/- Cat Index -1.33 % Rank Cat 78			Trailing Returns 1 Yr	2023 6.64 2024 —	2022 -6.13 ·	01-31-2024		Vanguard T
Vanguard Multiple 15.5 Years Foreign Stock	<u>.</u> 5	1.02 98.77 9	Best Fit MSCI ACWI E NF		5 Yr 18.02		699 funds 642 funds 423 2★ 2★ -∆va	5 Yr						a data current to the most rece 2-7447 or visit www.vanguard	d, may be worth more or less to wer or higher than return data	Its. The investment return and it will fluctuate: thus an invest	rics. epresents past performance a	ge of the three-, five-, and 10-1	I	Subsidized Unsubsidized	642 ,	0.00 0.01 0.14 74 69 57	0.01 0.14	7.28 4.03 5.33 4.34	3 Yr 5 Yr 10 Yr 1	2.54 -4.02 9.98 1	-12.85 -10.54 14.69 -1	3rd Otr Ath Otr	JSD)	Total Intl Stock Morningstar Analyst-Driven %
Base Currency: Ticker: ISIN: Minimum Initia	- Americas -5.90% Americas Greater Europe Greater Asia				10 Yr Credit Quality Breakdown 15.19 AAA	Avg	423 funds 3*	Fixed-Income Style	0.17	0.15 NA	Value Blend Grov	NA Equity Style	Total	ent Non-US Stocks t.com. Bonds Other/Not Clsfd	nan		791	-0.24 -0 84		15.04 -0.24	16.75   15.55	8	2013 2014	4.74 4.65	Incept 4 65	15.44 -1.83	-16.05	0,0	<b>₩ Gold</b>	OCK Morningstar
Il Purchase:	ě				Breakdown —		Avg Ett Duration  Avg Wtd Coupon  Avg Wtd Price		∥ew \$mii		P/E Ratio TTM	Portfolio Statistics	100.00	ks 97.06 0.00 sfd 0.15	%	is 12-31-2023	788 7	1.29 0.16 80 12		-4.37 4.65 1.29 0.16	14.49 14.73	8	2015 2016		<b>\</b>				<b>Data Coverage %</b> 100.00	Analyst-Driven%
USD VGTSX US9219096024 \$0	10.5 nel sur linex 10.5 0.97 43.5 0.95 46.0 1.06				Bond %					1.6 0.94 28594 0.63	0 -1		00 100.06 0.06	97.06 0.00 0.16	Long % St 2.20 0.64		741 7	0.20 -0.25 -0.08 25 50 53		27.40 -14.44 21.43 0.20 -0.25 -0.08	18.24   15.17   17.86		2017 2018 2019		}				699 US Fund Foreign Large Blend	Morningstar Rating"
Purchase Constraints: Incept: Type: Total Assets:	7 7 ☐ Consumer Defensive 5 ☐ Healthcare 6 ☐ Utilities	- thergy Industrials - Technology		Financial Services  Real Estate		Sector Weightings	⊕ 15 mil		€	)	) ⊕ €		•	() A	Share Chg since 11-2023		767 7	0.51 0.79 -0.05		11.16 8.61 -16.05 0.51 0.79 -0.05	19.40   20.45   16.66		2020 2021 2022		<b>\</b>	}				* Standard Index
	efensive		ion Services	vices	als orlinal			AstraZeneca PLC   AstraZeneca PLC	- 1			Tencent Holdings Ltd					7	.05 -0.18 -0.83 .58 70 —		)5   15.44   -1.83 )5   -0.18   -0.83	6 18.62 18.28		2023 01-24		10k	20k		100k		Category Index
C 04-29-1996 MF \$398,144.73 mil	<b>19.6</b> 7.3 9.1 3.1	5.4 14.9 12.8	<b>38.2</b>	19.7 3.3	<b>42.2</b> 8.1 11.1	Stocks %	ding Ltd Ordinary	ssy Louis vuittoil SE	3 :	tered Shares	- [	Ltd	S C C - +-1	Novo Nordisk A/S Class B  Nestle SA  ASAA Listing AV	otal Fixed-Income,		No. of Funds in Cat	+/- Category Index % Rank Cat	Performance Quartile (within category)	Total Return % +/- Standard Index	NAV/Price	Investment Style Equity/Stocks %		-		Category Average  16,936	ı	Grov	Blend	
	<b>0.96</b> 0.93 0.94 1.05	0.94 1.11 0.96	<b>1.00</b> 0.91	0.94 1.53	<b>1.02</b> 1.08	Rel Std Index	0.56	0.66 0.57	0.67	0.70 0.70	0.73	0.79	0.99	1.08	Net Assets %											Ф	ntl Stock	-	ign raiga	à l

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

## Asset Class: Stability of Principal

## Important Information

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

### Annuity Company Voya Retirement Insurance and

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

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

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

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

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

#### Transfers Equity Wash Restrictions on

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

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

## Competing Investment Option

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

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

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

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

## Requests for Full Withdrawals

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

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

90

## Interest Rate Structure

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

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



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

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

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

91

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

dealers with which it has a selling agreement. All products or services may arrangement, they may be provided by Voya Institutional Trust Company. All companies are members of the Voya® Plan administrative services provided by VRIAC or Voya Institutional Plan Services, LLC ("VIPS"). Neither VRIAC nor VIPS engage in the sale or not be available in all states. 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 Any insurance products, annuities and



# Standardized and Tax Adjusted Returns Disclosure Statement

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

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

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

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

## **Money Market Fund Disclosures**

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

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

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

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

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

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

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

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

NA	0.07	0.07	NA	NA	12.29 09-27-2011	12.29	10.12	4 13.70	23.14		I	Vanguard Mid-Cap Growth Index Admiral
NA	0.02	0.02	NA	NA	8.47 07-07-1997	8.47	12.02	15.67	26.26	1	1	Vanguard Institutional Index Instl PI
N N	0.04	0.04	NA	NA	10.12 01-14-2011	10.12	8.57	11.93	25.42	1	1	Vanguard Extended Market Index InstlPlus
NA	0.51	$0.36^{3}$	NA	NA	1.58 02-01-2018	1.58	1	1.70	5.97	1	1	Sterling Capital Total Return Bond R6
N	0.55	$0.54^{2}$	NA	NA	04-01-2005	8.43	8.68	11.53	8.17		I	MFS Value R4
N	0.52	0.441	NA	NA	15.96 11-30-2010	15.96	15.67	21.19	34.95			JPMorgan Large Cap Growth R6
NA	0.47	0.47	NA	NA	7.83 05-01-2009	7.83	4.90	8.04	16.05			American Funds Europacific Growth R6
Max lemption %	Gross Exp Ratio % Redemption %	Net Exp Ratio %	Max Back Load %	Inception Max Front Max Back Date Load % Load %		Since Inception	10Yr	5Yr	1Yr	7-day Yield Unsubsidized <i>as of date</i>	7-day Yield 7-day Yield Subsidized Unsubsidized as of date as of date	Standardized Returns (%)
												Annualized returns 12-31-2023

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				01-30-1970 02-28-1941	1 1	12.03 1.34	15.69 2.01	26.29 5.41		S&P 500 TR USD USTREAS T-Bill Auction Ave 3 Mon
				12-31-1985	1	8.26	11.16	12.71		Russell Mid Cap Value TR USD
				12-31-1978	ı	9.42		17.23		Russell Mid Cap TR USD
				02-01-1995	ı	10.57		25.87		Russell Mid Cap Growth TR USD
				01-01-198/	I	8.40	10.91	11.45		Russell 1000 Value IR USD
				12-31-1978	I	11.80		26.53		RUSSEII 1000 TR USD
				01-01-100/		14.00		90.24		nussen 1000 Growm in OSD
				01-01-1997		1/106	10 5	12.61		Russell 1000 Crough TR HCD
				02 21 1096		1 20		10 2/		MCCI EVEE NB IICD
				01_01_2001		7 03	_	33 36		MCCI ACMI NB HCD
				01-01-2001		3 4.55 3 23	7.49	15.63		MSCI ACWI EX USA GROWIN NR USD
				2		}	;	:		
				12-21-2020	I	1	1	22.61		Morningstar US Sml Brd Grt Ext TR
				00-00-00-0				9		USD
				05.02-12-21				1304		Morningstar IIS Mod Con Tot Alloc NR
				12 21 2020	ı	1		11 03		Morningstar US Mid Brd Vol TR HSD
				12-21-2020	ı	1	I	14.35		Morningstar US LM Brd Val TR USD
				00-01-2010		I		<u>.</u>		Mornings(a) do cole bu in dob
				05-01-2019				л <u>г</u>		Morningstar IIC Core Rd TR IICD
				02-18-2009	I	5.72	7.38	13.22		Morningstar Mod Tot Risk TR USD
				02-18-2009		4.17	5.42	10.07		Morningstar Lifetime Mod Incm I K
				00-23-2014	I	: :	1 2	17.00		Morningstar Ellethile Mod 2000 in OSD
				06-23-201/		.		17 96		Morningstar Lifetime Mod 2060 TR HSD
				02-18-2009		7 18		17 90		Morningstar I ifetime Mod 2055 TR IISD
				02-18-2009	I	7.23	_	17.85		Morningstar Lifetime Mod 2050 TR USD
				02-18-2009		7.19	9.84	17.39		Morningstar Lifetime Mod 2045 TR USD
				02-18-2009	1	6.95		16.34		Morningstar Lifetime Mod 2040 TR USD
				02-18-2009		6.49		14.84		Morningstar Lifetime Mod 2035 TR USD
				02-18-2009	ı	5.93	7.44	13.33		Morningstar Lifetime Mod 2030 TR USD
				02-18-2009	I	5.41		12.15		Morningstar Lifetime Mod 2025 TR USD
				02-18-2009		5.00	6.15	11.31		Morningstar Lifetime Mod 2020 TR USD
				11-24-2021	I	I		13.98		Morningstar GbI xUS Growth TME NR
				06-18-2013	ı	5.41	7.08	15.46		Morningstar Gbl Allocation TR USD
				01-03-1980	ı	1.81	1.10	5.53		Bloomberg US Agg Bond TR USD
0.17 NA	0.17	NA	Ā	04-29-1996	4.74	4.03	7.28	15.44		Vanguard Total Intl Stock Index Inv
0.04 NA	0.04	NA	NA		4.28	1.80	1.13	5.72		Vanguard Total Bond Market Index I
0.08 NA	0.08	NA	Ā	10-27-2003	4.87	4.09	4.83	10.74	1	Vanguard Target Retirement Income Fund
	0.08	NA	N		13.76	1		20.24		Vanguard Target Retirement 2070 Fund
	0.08	NA	N N		8.44		10.91	20.15		Vanguard Target Retirement 2065 Fund
	0.08	NA	N	01-19-2012	9.52	7.97		20.18		Vanguard Target Retirement 2060 Fund
0.08 NA	0.08	NA	NA	08-18-2010	9.77	7.97		20.16		Vanguard Target Retirement 2055 Fund
0.08 NA	0.08	N	¥	06-07-2006	7.51	7.99	10.93	20.17		Vanguard Target Retirement 2050 Fund
	0.08	NA	N	10-27-2003	7.97	7.91		19.48		Vanguard Target Retirement 2045 Fund
	0.08	NA	A	06-07-2006	7.22	7.52		18.34	1	Vanguard Target Retirement 2040 Fund
	0.08	NA	NA	10-27-2003	7.32	7.06	9.17	17.14	1	Vanguard Target Retirement 2035 Fund
	0.08	NA	NA	06-07-2006	6.57	6.58	8.37	16.03	1	Vanguard Target Retirement 2030 Fund
0.08 NA	0.08	N	A	10-27-2003	6.53	6.10	7.56	14.55		Vanguard Target Retirement 2025 Fund
	0.08	NA	NA		5.91	5.52		12.51		Vanguard Target Retirement 2020 Fund
	0.07	NA	NA		11.84	8.49	11.31	9.76		Vanguard Mid-Cap Value Index Admiral
Ratio % Redemption %		Load %	Load %		Inception				Subsidized Unsubsidized as of date as of date	
iross Exp Max	Net Exp G	Max Back	Inception Max Front Max Back		Since	10Yr	5Yr	1Yr	7-day Yield 7-day Yield	
										Annualized returns 12-31-2023



Contractual waiver; Expires 10-31-2024
 Contractual waiver; Expires 12-31-2024
 Contractual waiver; Expires 01-31-2025

Return after Tax (%)	On Distribution					On Distribution and Sales	n and Sales of Shares		
	1Yr	5Yr	10Yr	Since Inception	Inception Date	1Yr	5Yr	10Yr	Since Inception
American Funds Europacific Growth R6	14.59	6.93	3.89	6.91	05-01-2009	9.85	6.20	3.70	6.28
JPMorgan Large Cap Growth R6	34.78	19.23	13.59	14.33	11-30-2010	20.69	16.96	12.46	13.22
MFS Value R4	5.77	9.86	7.07	7.08	04-01-2005	5.93	8.72	6.43	6.53
Sterling Capital Total Return Bond R6	4.41	0.33		0.21	02-01-2018	3.50	0.77		0.66
Vanguard Extended Market Index InstlPlus	24.91	11.53	8.13	9.69	01-14-2011	15.21	9.42	6.83	8.34
Vanguard Institutional Index Instl PI	25.31	14.67	11.20	7.86	07-07-1997	16.12	12.48	9.77	7.15
Vanguard Mid-Cap Growth Index Admiral	22.89	13.50	9.88	12.05	09-27-2011	13.81	10.96	8.27	10.36
Vanguard Mid-Cap Value Index Admiral	9.06	10.66	7.87	11.16	09-27-2011	6.10	8.88	6.74	9.77
Vanguard Target Retirement 2020 Fund	10.59	4.49	3.93	4.74	06-07-2006	8.16	4.89	4.04	4.55
Vanguard Target Retirement 2025 Fund	13.22	5.94	4.80	5.56	10-27-2003	9.07	5.71	4.55	5.16
Vanguard Target Retirement 2030 Fund	15.11	6.91	5.43	5.68	06-07-2006	9.76	6.40	5.00	5.19
Vanguard Target Retirement 2035 Fund	16.28	7.65	5.85	6.45	10-27-2003	10.44	7.07	5.40	5.93
Vanguard Target Retirement 2040 Fund	17.52	8.46	6.38	6.37	06-07-2006	11.16	7.75	5.83	5.81
Vanguard Target Retirement 2045 Fund	18.71	9.46	6.88	7.20	10-27-2003	11.85	8.40	6.16	6.55
Vanguard Target Retirement 2050 Fund	19.42	9.76	7.06	6.77	06-07-2006	12.26	8.54	6.25	6.08
Vanguard Target Retirement 2055 Fund	19.43	9.89	7.15	9.01	08-18-2010	12.25	8.53	6.26	7.97
Vanguard Target Retirement 2060 Fund	19.46	10.09	7.25	8.82	01-19-2012	12.26	8.52	6.25	7.68
Vanguard Target Retirement 2065 Fund	19.46	10.32		7.87	07-12-2017	12.23	8.54		6.58
Vanguard Target Retirement 2070 Fund	19.71			13.24	06-28-2022	12.21			10.46
Vanguard Target Retirement Income Fund	9.24	3.43	2.87	3.71	10-27-2003	6.63	3.38	2.81	3.51
Vanguard Total Bond Market Index I	4.36	0.08	0.70	2.61	09-18-1995	3.36	0.44	0.91	2.65
Vanguard Total Intl Stock Index Inv	14.37	6.39	3.1 <sub>3</sub>	3.99	04-29-1996	9.54	5.51	2.88	3.66



# 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 commodifies

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

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

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

## **Comparison of Fund Types**

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

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

to income tax, if held in a taxable account.

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

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

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

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

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



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

#### Performance

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

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

## Pre-Inception Returns

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

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

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

## **Quantitatively-Driven Content**

This report may contain a 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, Chief Analytics Officer for Morningstar, Inc. is responsible for overseeing the methodology that supports the Quantitatively-Driven Content. Mr. Davidson is guided by the Morningstar, Inc. Code of Ethics in carrying out his responsibilities. Morningstar's Research, Investment, and Analytics Group includes manager research employees of various Morningstar, Inc. subsidiaries who prepare analysis on investment products and quantitative research employees of Morningstar, Inc. or its subsidiaries who aim to help investors by providing innovative research, models, and software. In the United States, 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 20% of the pillar weight was assigned by analysts.

### Asset Allocation

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

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

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



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

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

## **Average Effective Duration**

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

## **Average Effective Maturity**

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

## Average Weighted Coupon

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

## Average Weighted Price

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

#### **Best Fit Index**

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

#### Beta

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

## Credit Quality Breakdown

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

### Data Coverage %

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

### Deferred Load %

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

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

### **Expense Ratio %**

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

### Front-end Load %

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

# Geometric Average Market Capitalization

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

### Growth of 10,000

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

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

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## Management Fees %

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

## Maximum Redemption Fee %

The Maximum Redemption Fee is the maximum amount a fund may charge if redeemed in a specific time period after the fund's purchase (for example, 30, 180, or 365 days).

#### Mean

Mean is the annualized geometric return for the period shown.

## Morningstar Medalist Rating™

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



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

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

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

## Morningstar Category

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

### Morningstar Rank

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

## Morningstar Rating™

placing more emphasis on downward variations and rewarding consistent performance. The Morningstar Rating does not include any adjustment for sales open-ended mutual funds are considered a single population for comparative separate accounts with at least a three-year history. Exchange-traded funds and next 22.5% receive 4 stars, the next 35% receive 3 stars, the next 22.5% that accounts for variation in a managed product's monthly excess performance, purposes. It is calculated based on a Morningstar Risk-Adjusted Return measure The Morningstar Rating  $^{\text{TM}}$  for funds, or "star rating", is calculated for funds and The top 10% of products in each product category receive 5 stars, the

> global.morningstar.com/managerdisclosures performance figures associated with its three-, five-, and 10-year (if applicable) Rating for a managed product is derived from a weighted average of the for funds, including its methodology, please go to Morningstar Rating metrics. For more information about the Morningstar Rating receive 2 stars, and the bottom 10% receive 1 star. The Overall Morningstar

history are not rated. measure for the product. Products with less than three years of performance measured for up to three time periods (three, five, and 10 years). These Average (-Ave), and the bottom 10% Low (Low). Morningstar Return is Above Average (+Avg), the middle 35% Average (Avg), the next 22.5% Below with the products in its Morningstar category. In each Morningstar category, return over a risk-free rate (the return of the 90-day Treasury Bill) in comparison products in its Morningstar Category. It is an assessment of a product's excess The Morningstar Return rates a fund's performance relative to other managed separate measures are then weighted and averaged to produce an overall the top 10% of products earn a High Morningstar Return (High), the next 22.5%

### Morningstar Risk

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

#### Style Analysis

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

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average style of the portfolio. 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

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

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

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



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

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

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

#### P/B Ratio TTM

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

#### P/C Ratio TTM

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

#### P/E Ratio TTM

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

## **Percentile Rank in Category**

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

## Performance Quartile

Performance Quartile reflects a fund's Morningstar Rank

## **Potential Capital Gains Exposure**

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

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### Quarterly Returns

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

#### K-Squarec

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

### Regional Exposure

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

### **Sector Weightings**

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



generally have betas that are close to 1

#### Share Change

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

#### **Sharpe Ratio**

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

### **Standard Deviation**

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

## Standardized Returns

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

#### **Total Return**

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

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

### Trailing Returns

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

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

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

# **Investment Risk Disclosures**

Morningstar makes no representation concerning the appropriateness of any

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

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

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

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

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

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

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

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

<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.

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

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

<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 strategies, using arbitrage (exploiting price inefficiencies), international



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

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

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

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

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

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

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

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

<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 no guaranteed at any time, including at the fund's target date.

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

# **Benchmark Disclosure**

## **Bloomberg US Agg Bond TR USD**

This index is composed of the BarCap Government/Credit Index, the Mortgage-Backed Securities Index, and the Asset-Backed Securities Index. The returns we publish for the index are total returns, which includes the daily reinvestment of dividends. Bloomberg Indexes and its associated data, Copyright © 2024 Bloomberg Index Services Limited. Bloomberg® is a trademark and service mark of Bloomberg Finance L.P. and its affiliates (collectively "Bloomberg"). Bloomberg or Bloomberg's licensors own all proprietary rights in the Bloomberg Indices. Bloomberg does not approve or endorse this material or guarantee the accuracy or completeness of any information herein, nor does Bloomberg make any warranty, express or implied, as to the results to be obtained therefrom and, to the maximum extent allowed by law, Bloomberg shall not have any liability or responsibility for injury or damages arising in connection therewith. The constituents displayed for this index are from the following proxy: iShares Core US Aggregate Bond ETF.

# Morningstar Gbl Allocation TR USD

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

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# **Morningstar Gbl xUS Growth TME NR USD**

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

# Morningstar Lifetime Mod 2020 TR USD

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

# Morningstar Lifetime Mod 2025 TR USD

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

# Morningstar Lifetime Mod 2030 TR USD

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



# Morningstar Lifetime Mod 2035 TR USD

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

# Morningstar Lifetime Mod 2040 TR USD

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

# Morningstar Lifetime Mod 2045 TR USD

equities, bonds and traditional inflation hedges such as commodities and TIPS are comfortable with average exposure to equity market volatility. 35 years away from retirement. The Moderate risk profile is for investors who This portfolio is held in proportions appropriate for a U.S. investor who is about The Morningstar Lifetime Moderate 2045 Index represents a portfolio of globa

# Morningstar Lifetime Mod 2050 TR USD

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

# Morningstar Lifetime Mod 2055 TR USD

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

# Morningstar Lifetime Mod 2060 TR USD

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

# Morningstar Lifetime Mod Incm TR USD

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

## Morningstar Mod Tgt Risk TR USD

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

## Morningstar US Core Bd TR USD

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

## Morningstar US LM Brd Val TR USD

mid-cap market. This Index does not incorporate Environmental, Social, or markets. It targets stocks representing the cheaper half of the U.S. largefundamental characteristics of the Large-Mid Cap Value segment of U.S. equity The index provides a comprehensive depiction of the performance and

# Morningstar US Mid Brd Grt TR USD

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

## Morningstar US Mid Brd Val TR USD

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

# Morningstar US Mod Con Tgt Alloc NR USD

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

# Morningstar US Sml Brd Grt Ext TR USD

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

## MSCI ACWI Ex USA Growth NR USD

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

## MSCI ACWI Ex USA NR USD

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. and emerging markets. The index consists of 48 developed and emerging market that is designed to measure equity market performance in the global developed The MSCI AC World ex USA is a free float-adjusted market capitalization index

## MSCI ACWI NR USD

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

### MSCI EAFE NR USD

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

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## Russell 1000 Growth TR USD

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

## Russell 1000 TR USD

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

## Russell 1000 Value TR USD

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

## Russell Mid Cap Growth TR USD

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

## Russell Mid Cap TR USD

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

## **Russell Mid Cap Value TR USD**

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

### S&P 500 TR USD

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

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

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



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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.

**Performance.** Performance results illustrated herein do not reflect a deduction of any investment advisory fees charged by Hyas Group or any investment manager but do include the fund's internal expenses. Performance results are annualized for time periods greater than one year and include all cash and cash equivalents, realized and unrealized capital gains and losses, and dividends, interest, and income. The investment results depicted herein represent historical performance. As a result of recent market activity, current performance may vary from the figures shown. Past performance is not a guarantee of future results.

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

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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