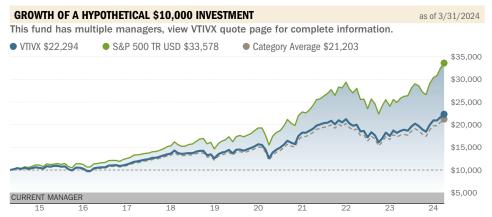


Vanguard Target Retirement 2045 Fund VTIVX



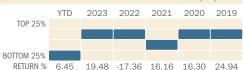
This graph represents the growth of a hypothetical investment of \$10,000. It assumes reinvestment of dividends and capital gains, and does not reflect sales loads, redemption fees or the effects of taxes on any capital gains and/or distributions.

CATEGORY: TARGET-DATE 2045

Morningstar Category: Target-date portfolios provide diversified exposure to stocks, bonds, and cash for those investors who have a specific date in mind (in this case, the years 2041-2045) for retirement. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Management adjusts the allocation among asset classes to more-conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.



fund's total annual return to that of other funds in the same category, and its figures are not adjusted for load, sales charge, or taxes.





² Index figures do not reflect deductions for fees or expenses

Data and rankings provided by Morningstar. Morningstar proprietary ratings reflect historical risk-adjusted performance as of 03/31/24. These ratings are subject to change every month. For each fund with at least a three-year history, Morningstar calculates a Morningstar Rating[™] based on a Morningstar Risk-Adjusted Return measure that accounts for variation in a fund's monthly performance (including the effects of sales charges, loads and redemption fees), placing more emphasis on downward variations and rewarding consistent performance. (Each share class is counted as a fraction of one fund within this scale and rated separately, which may cause slight variations in the distribution percentages.) The top 10% of the funds in an investment category receive 5 stars, 22.5% receive 4 stars, 35% receive 3 stars, the next 22.5% receive 2 stars, and the bottom 10% receive 1 star. The overall Morningstar Rating is a weighted average of the funds' three-, five-, and 10-year (if applicable) Morningstar rating metrics. To contact Morningstar, Inc. call 1-800-735-0700.

One or more investments in your plan may be subject to a Contingent Redemption Fee. In addition, some mutual fund companies have strict policies on excessive trading and expressly prohibit transactions deemed detrimental to long-term shareholders of the fund. Investors should consider carefully information contained in the prospectus, including investment objectives, risks, trading restrictions, charges and expenses. You can request a prospectus by calling Schwab at 1-800-435-4000. You may also request a prospectus at www.schwab.com/workplace. Please read the prospectus carefully before investing.

Performance data quoted represents past performance and does not indicate future results. Visit schwab.com/workplace for month-end performance information. Current performance may be lower or higher. Investment value will fluctuate, and shares when redeemed, may be worth more or less than original cost. Please visit http://www.schwab.com/workplace for more recent performance information.

FUND PROFILE as of 03/31/24 Available at Schwab Inception Date Status Category Index Fund Fund Company Portfolio Turnover FUND PROFILE as of 03/31/24 Yes 10/27/2003 Target-Date 2045 No Vanguard Portfolio Turnover 1%



The ratings reflect historical risk-adjusted performance and the overall Morningstar Rating™ is derived from a weighted average of the performance figures associated with fund's 3, 5, and 10 year rating metrics.

QUARTERLY AVERAGE ANNUAL TOTAL RETURN as of 03/31/2024

1 Year	19.45%	10 Years	8.40%
5 Years	9.74%	Since Incep.	8.20%

Numbers are adjusted for possible sales charges, and assume reinvestment of dividends & capital gains over each time period.

EXPENSES

Gross Expense Ratio (before waivers)
Net Expense Ratio (after waivers)
Category Average Expense Ratio
12b-1 Fees
Max Front Load
Max Back Load
Redemption Fee

0.08%
0.70%
None
None
None
None

A net expense ratio lower than the gross expense ratio may reflect a cap on or contractual waiver of fund expenses. Please read the fund prospectus for details on limits or expiration dates for any such waivers.

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0.01

2.76

0.05

42 21%

Non-US assets includes assets without a specific country classification

Convertible

as of 03/31/2024

Giant Cap

MARKET CAPITALIZATION

Cash

Other

62.57%

5.99%

3.31%

2.70%

2.64%

0.00

0.27

0.00

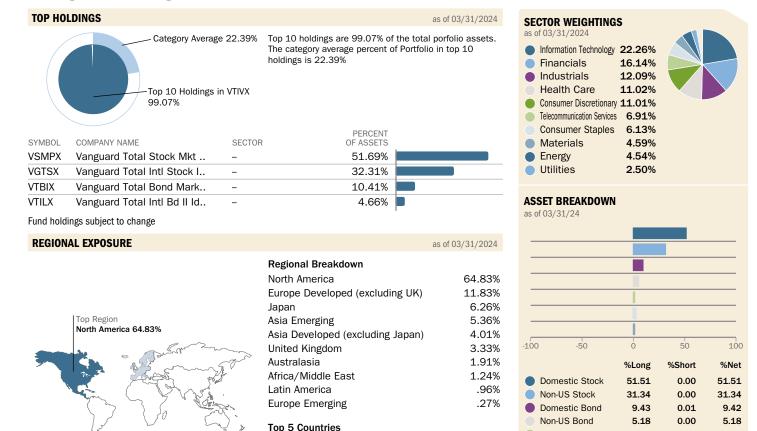
0.01

2.49

0.04



Vanguard Target Retirement 2045 Fund VTIVX





addition to researching possible investment choices.

Sector weightings for fund portfolios are determined using the Global Industry Classification Standard (GICS). GICS was developed by and is the exclusive property of Morgan Stanley Capital

United States

United Kingdom

Japan

Canada

France

International Inc. and Standard & Poor's. GICS is a service mark of MSCI and S&P and has been licensed for use by Charles Schwab & Co., Inc.

Government bond fund shares are not guaranteed. Their price and investment return will fluctuate with market conditions and interest rates. Investment income from municipal bond funds may

be subject to certain state and local taxes and the federal alternative minimum tax. Capital gains are not exempt from federal income tax.

International investing involves special risks such as currency fluctuation and political instability. Investing in emerging markets may accentuate these risks. Small cap funds are subject to

greater volatility than those in other asset categories. Due to the limited focus of sector funds, they may experience greater volatility than funds with a broader investment strategy.

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For participants who utilize the Personal Choice Retirement Account (PCRA)®, the following fees and conditions may apply: Schwab's short-term redemption fee of \$49.95 will be charged on redemption of funds purchased through Schwab's Mutual Fund OneSource® service (and certain other funds with no transaction fee) and held for 90 days or less. Schwab reserves the right to exempt certain funds from this fee, including Schwab Funds®, which may charge a separate redemption fee, and funds that accommodate short-term trading.

The Laudus Group® of Funds includes the Laudus Mondrian and Laudus Growth Investors Funds, which are part of the Laudus Trust and Laudus Institutional Trust and distributed by ALPS Distributors, Inc., and the Laudus MarketMasters Funds®, which are part of the Schwab Capital Trust and distributed by Charles Schwab & Co., Inc. ALPS Distributors, Inc. and Charles Schwab & Co., Inc. are unaffiliated entities. Fund investment adviser: Charles Schwab Investment Management, Inc. (CSIM). Distributor: Charles Schwab & Co., Inc. (Schwab). CSIM and Schwab are separate but affiliated companies and subsidiaries of The Charles Schwab Corporation. The aggregate fees Schwab or its affiliates receive from Schwab Affiliate Funds are greater than the remuneration Schwab receives from other fund companies participating in the Mutual Fund OneSource Service.

under 10% 10%-20%

20%-30%

30%-50%