

Vanguard Expense Ratio Changes: February 2017

- 68 mutual fund and ETF shares reported lower expense ratios, saving clients more than \$105 million.*
- 2 mutual fund shares and 1 ETF share reported an increase in expense ratios.
- Cumulative \$143 million in savings across 124 fund shares over the last three months.**

Actively Managed Balanced			
Fund	2015 Expense Ratio	2016 Expense Ratio	Basis Point Change
STAR Fund	0.34%	0.32%	-2

Actively Managed Equity			
Fund	2015 Expense Ratio	2016 Expense Ratio	Basis Point Change
Alternative Strategies Fund Investor	0.73%	0.71%	-2
Diversified Equity Fund	0.40%	0.36%	-4
Emerging Markets Select Stock Fund	0.93%	0.90%	-3
Explorer Fund Admiral	0.35%	0.34%	-1
Explorer Fund Investor	0.49%	0.46%	-3
Global Minimum Volatility Fund Admiral	0.21%	0.17%	-4
Global Minimum Volatility Fund Investor	0.27%	0.25%	-2
International Explorer Fund	0.42%	0.41%	-1
International Value Fund	0.46%	0.43%	-3
Mid-Cap Growth	0.43%	0.36%	-7
Selected Value Fund	0.39%	0.35%	-4
Windsor Fund Admiral	0.29%	0.20%	-9
Windsor Fund Investor	0.39%	0.30%	-9
Windsor II Fund Admiral	0.26%	0.25%	-1
Windsor II Fund Investor	0.34%	0.33%	-1

Equity Index			
Fund	2015 Expense Ratio	2016 Expense Ratio	Basis Point Change
Emerging Markets Index Fund Institutional Plus	0.10%	0.09%	-1
Emerging Markets Stock Index Fund Admiral	0.15%	0.14%	-1
Emerging Markets Stock Index Fund Institutional	0.12%	0.11%	-1
Emerging Markets Stock Index Fund Investor	0.33%	0.32%	-1
European Stock Index Fund Admiral	0.12%	0.10%	-2
European Stock Index Fund Institutional Plus	0.08%	0.07%	-1
European Stock Index Fund Institutional	0.09%	0.08%	-1
FTSE All-World ex-US Index Fund Admiral	0.13%	0.11%	-2
FTSE All-World ex-US Index Fund Institutional Plus	0.09%	0.07%	-2
FTSE All-World ex-US Index Fund Institutional	0.11%	0.10%	-1
FTSE All-World ex-US Index Fund Investor	0.26%	0.23%	-3
FTSE All-World ex-US Small-Cap Index Fund Institutional	0.15%	0.12%	-3
FTSE All-World ex-US Small-Cap Index Fund Investor	0.31%	0.27%	-4
Global ex-U.S. Real Estate Index Fund Admiral	0.18%	0.15%	-3
Global ex-U.S. Real Estate Index Fund Institutional	0.16%	0.13%	-3
Global ex-U.S. Real Estate Index Fund Investor	0.36%	0.35%	-1
High Dividend Yield Index Fund Investor	0.16%	0.15%	-1
International High Dividend Yield Index Admiral	0.30%	0.32%	+2
International High Dividend Yield Index Investor	0.40%	0.42%	+2
Pacific Stock Index Fund Admiral	0.12%	0.10%	-2
Pacific Stock Index Fund Institutional	0.09%	0.08%	-1
Total International Stock Index Fund Admiral	0.12%	0.11%	-1
Total International Stock Index Fund Institutional	0.10%	0.09%	-1
Total International Stock Index Fund Investor	0.19%	0.18%	-1
Total World Stock Index Fund Institutional	0.13%	0.10%	-3
Total World Stock Index Fund Investor	0.25%	0.21%	-4

Equity Index ETF			
Fund	2015 Expense Ratio	2016 Expense Ratio	Basis Point Change
FTSE Emerging Markets ETF	0.15%	0.14%	-1
FTSE Europe ETF	0.12%	0.10%	-2
FTSE All-World ex-US ETF	0.13%	0.11%	-2
FTSE All-World ex-US Small-Cap ETF	0.17%	0.13%	-4
Global ex-U.S. Real Estate ETF	0.18%	0.15%	-3
High Dividend Yield ETF	0.09%	0.08%	-1
International High Dividend Yield Index ETF	0.30%	0.32%	+2
FTSE Pacific ETF	0.12%	0.10%	-2
Total International Stock ETF	0.13%	0.11%	-2
Total World Stock ETF	0.14%	0.11%	-3

Bond Index			
Fund	2015 Expense Ratio	2016 Expense Ratio	Basis Point Change
Emerging Markets Government Bond Index Fund Admiral	0.33%	0.32%	-1
Total International Bond Index Fund Admiral	0.14%	0.12%	-2
Total International Bond Index Fund Institutional	0.09%	0.07%	-2
Total International Bond Index Fund Investor	0.17%	0.15%	-2

Bond Index ETF			
Fund	2015 Expense Ratio	2016 Expense Ratio	Basis Point Change
Emerging Markets Government Bond ETF	0.34%	0.32%	-2
Total International Bond ETF	0.15%	0.12%	-3

Actively Managed Bond: Tax-Exempt			
Fund	2015 Expense Ratio	2016 Expense Ratio	Basis Point Change
High-Yield Tax-Exempt Fund Admiral	0.12%	0.09%	-3
High-Yield Tax-Exempt Fund Investor	0.20%	0.19%	-1
Intermediate-Term Tax-Exempt Fund Admiral	0.12%	0.09%	-3
Intermediate-Term Tax-Exempt Fund Investor	0.20%	0.19%	-1
Limited-Term Tax-Exempt Fund Admiral	0.12%	0.09%	-3
Limited-Term Tax-Exempt Fund Investor	0.20%	0.19%	-1
Long-Term Tax-Exempt Fund Admiral	0.12%	0.09%	-3
Long-Term Tax-Exempt Fund Investor	0.20%	0.19%	-1
Short-Term Tax-Exempt Fund Admiral	0.12%	0.09%	-3
Short-Term Tax-Exempt Fund Investor	0.20%	0.19%	-1

Bond Index: Tax-Exempt			
Fund	2015 Expense Ratio	2016 Expense Ratio	Basis Point Change
Tax-Exempt Bond Index Fund Admiral	0.12%	0.09%	-3
Tax-Exempt Bond Index Fund Investor	0.20%	0.19%	-1

Bond Index ETF: Tax-Exempt			
Fund	2015 Expense Ratio	2016 Expense Ratio	Basis Point Change
Tax-Exempt Bond Index Fund ETF	0.12%	0.09%	-3

Source: Vanguard.

*Vanguard calculation based on average fund assets over a 12-month period and the change in expense ratios through the fiscal year ended October 2016.

**Vanguard calculations based on average fund assets over a 12-month period and changes in expense ratios for all share classes from December 2016 through February 2017.

All 2016 expense ratios are as of the most recent prospectus. Generally, expense ratios are backwardlooking, meaning they are based on actual operating expenses reported from the prior fiscal year.

For more information about Vanguard funds, visit vanguard.com or call 800-662-7447 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 ETF Shares are not redeemable with the issuing Fund other than in very large aggregations worth millions of dollars. Instead, investors must buy and sell Vanguard ETF Shares in the secondary market and hold those shares in a brokerage account. In doing so, the investor may incur brokerage commissions and may pay more than net asset value when buying and receive less than net asset value when selling.