



Estimated year-end distributions

ETFs

Vanguard ETF®	Ticker	2017 declaration date	2017 ex-div. date	2017 payable date	Estimated QDI	Net income available 12/31/2017	Estimated capital gains			
							Short-term	Long-term	Total	% of NAV
Consumer Discretionary	VCR	12/12	12/14	12/19	100%	\$0.48	–	–	–	0.00%
Consumer Staples	VDC	12/12	12/14	12/19	100%	\$0.83	–	–	–	0.00%
Dividend Appreciation	VIG	12/19	12/21	12/27	100%	\$0.52	–	–	–	0.00%
Energy	VDE	12/12	12/14	12/19	100%	\$0.58	–	–	–	0.00%
Extended Duration Treasury	EDV	12/21	12/26	12/29	0%	\$0.92	\$0.01	\$0.33	\$0.34	0.27%
Extended Market	VXF	12/19	12/21	12/27	70%	\$0.47	–	–	–	0.00%
Financials	VFH	12/12	12/14	12/19	100%	\$0.33	–	–	–	0.00%
FTSE All-World ex-US	VEU	12/19	12/21	12/27	72%	\$0.44	–	–	–	0.00%
FTSE All-World ex-US Small-Cap	VSS	12/19	12/21	12/27	41%	\$1.92	–	–	–	0.00%
FTSE Developed Markets	VEA	12/19	12/21	12/27	71%	\$0.42	–	–	–	0.00%
FTSE Emerging Markets	VWO	12/19	12/21	12/27	49%	\$0.19	–	–	–	0.00%
FTSE Europe	VGK	12/15	12/19	12/22	78%	\$0.31	–	–	–	0.00%
FTSE Pacific	VPL	12/15	12/19	12/22	67%	\$0.93	–	–	–	0.00%
Global ex-U.S. Real Estate	VNQI	12/15	12/19	12/22	20%	\$1.90	–	–	–	0.00%
Growth	VUG	12/19	12/21	12/27	100%	\$0.42	–	–	–	0.00%
Health Care	VHT	12/12	12/14	12/19	100%	\$0.52	–	–	–	0.00%
High Dividend Yield	VYM	12/19	12/21	12/27	100%	\$0.58	–	–	–	0.00%
Industrials	VIS	12/12	12/14	12/19	100%	\$0.50	–	–	–	0.00%
Information Technology	VGT	12/12	12/14	12/19	100%	\$0.42	–	–	–	0.00%
Intermediate-Term Bond	BIV	12/21	12/26	12/29	0%	Daily Dividend	–	\$0.08	\$0.08	0.10%
International Dividend Appreciation	VIGI	12/15	12/19	12/22	73%	\$0.27	–	–	–	0.00%
International High Dividend Yield	VYMI	12/15	12/19	12/22	64%	\$0.45	–	–	–	0.00%
Large-Cap	VV	12/19	12/21	12/27	100%	\$0.54	–	–	–	0.00%
Materials	VAW	12/12	12/14	12/19	100%	\$0.51	–	–	–	0.00%
Mega Cap	MGC	12/21	12/26	12/29	100%	\$0.40	–	–	–	0.00%
Mega Cap Growth	MGK	12/21	12/26	12/29	100%	\$0.34	–	–	–	0.00%
Mega Cap Value	MGV	12/21	12/26	12/29	100%	\$0.43	–	–	–	0.00%
Mid-Cap	VO	12/19	12/21	12/27	89%	\$0.59	–	–	–	0.00%
Mid-Cap Growth	VOT	12/19	12/21	12/27	76%	\$0.22	–	–	–	0.00%
Mid-Cap Value	VOE	12/19	12/21	12/27	95%	\$0.61	–	–	–	0.00%

							Estimated capital gains			
Vanguard ETF®	Ticker	2017 declaration date	2017 ex-div. date	2017 payable date	Estimated QDI	Net income available 12/31/2017	Short-term	Long-term	Total	% of NAV
REIT	VNQ	12/19	12/21	12/27	0%	\$0.93	–	–	–	0.00%
Russell 1000	VONE	12/12	12/14	12/19	100%	\$0.53	–	–	–	0.00%
Russell 1000 Growth	VONG	12/12	12/14	12/19	100%	\$0.40	–	–	–	0.00%
Russell 1000 Value	VONV	12/12	12/14	12/19	100%	\$0.61	–	–	–	0.00%
Russell 2000	VTWO	12/12	12/14	12/19	73%	\$0.47	–	–	–	0.00%
Russell 2000 Growth	VTWG	12/12	12/14	12/19	81%	\$0.23	–	–	–	0.00%
Russell 2000 Value	VTWV	12/12	12/14	12/19	73%	\$0.64	–	–	–	0.00%
Russell 3000	VTHR	12/12	12/14	12/19	100%	\$0.52	–	–	–	0.00%
S&P 500	VOO	12/21	12/26	12/29	100%	\$1.08	–	–	–	0.00%
S&P 500 Growth	VOOG	12/15	12/19	12/22	100%	\$0.44	–	–	–	0.00%
S&P 500 Value	VOOV	12/15	12/19	12/22	100%	\$0.58	–	–	–	0.00%
S&P Mid-Cap 400	IVOO	12/15	12/19	12/22	88%	\$0.54	–	–	–	0.00%
S&P Mid-Cap 400 Growth	IVOG	12/15	12/19	12/22	100%	\$1.25	–	–	–	0.00%
S&P Mid-Cap 400 Value	IVOV	12/19	12/21	12/27	87%	\$1.79	–	–	–	0.00%
S&P Small-Cap 600	VIOO	12/15	12/19	12/22	81%	\$1.48	–	–	–	0.00%
S&P Small-Cap 600 Growth	VIOG	12/15	12/19	12/22	86%	\$0.41	–	–	–	0.00%
S&P Small-Cap 600 Value	VIOV	12/15	12/19	12/22	90%	\$0.55	–	–	–	0.00%
Short-Term Inflation-Protected Securities	VTIP	12/21	12/26	12/29	0%	\$0.81	–	–	–	0.00%
Small-Cap	VB	12/19	12/21	12/27	71%	\$0.68	–	–	–	0.00%
Small-Cap Growth	VBK	12/19	12/21	12/27	62%	\$0.48	–	–	–	0.00%
Small-Cap Value	VBR	12/19	12/21	12/27	77%	\$0.75	–	–	–	0.00%
Telecommunication Services	VOX	12/12	12/14	12/19	90%	\$0.89	–	–	–	0.00%
Total Bond Market	BND	12/21	12/26	12/29	0%	Daily Dividend	–	\$0.04	\$0.04	0.05%
Total International Bond	BNDX	12/21	12/26	12/29	0%	\$0.74	–	–	–	0.00%
Total International Stock	VXUS	12/19	12/21	12/27	66%	\$0.52	–	–	–	0.00%
Total Stock Market	VTI	12/19	12/21	12/27	94%	\$0.61	–	–	–	0.00%
Total World Stock	VT	12/15	12/19	12/22	79%	\$0.46	–	–	–	0.00%
Utilities	VPU	12/12	12/14	12/19	100%	\$0.86	–	–	–	0.00%
Value	VTV	12/19	12/21	12/27	100%	\$0.61	–	–	–	0.00%

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For more information about Vanguard ETF Shares, visit vanguard.com to obtain a prospectus or, if available, a summary prospectus. Investment objectives, risks, charges, expenses, and other important information are contained in the prospectus; read and consider it carefully before investing.

Each ETF's year-end income dividend will include net income for the full calendar year, so the amounts shown above will increase by any net income earned in December.

The estimated QDI percentages represent the portion of total 2017 income dividends expected to qualify for reduced tax rates for 2017.

All investing is subject to risk, including the possible loss of the money you invest.

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

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.



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