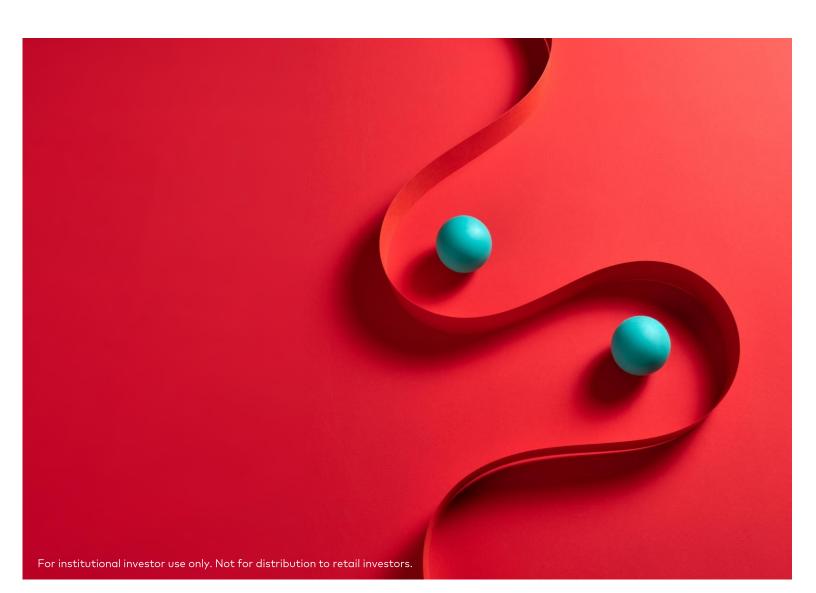


Vanguard Index Funds

Quarterly Review | June 30, 2024



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Executive summary

Markets remain positive for the first half of 2024

Positive momentum continued into the second quarter of 2024, with global equity markets posting gains. Bond markets had a rocky start as strong April economic data in the U.S. pushed back the timing of potential interest rate cuts. However, softer inflation data in recent weeks helped the domestic fixed income market end the quarter with small gains.

In the U.S., stocks continued to rally during the second quarter. Technology was again a leading sector, with performance primarily driven by enthusiasm around artificial intelligence. Large-cap stocks had strong performance during the quarter, outpacing small-cap stocks and interest-rate-sensitive real estate investment trusts, or REITs. U.S. equities continued to outperform developed ex-U.S. equities, where European stocks were weighed down by uncertainty around the election in France. Emerging markets, whose performance was hampered by concerns over China's first-quarter growth, outperformed developed markets in the second quarter after Chinese authorities stepped in with support.

Within fixed income, global developed markets fell marginally in the second quarter as yields, especially those in the eurozone, rose. Emerging markets debt, buoyed by higher real yields, produced a positive return. Likewise, in the U.S. and Europe, lower-quality credit outperformed as spreads narrowed and the default rate remained flat.

Despite market volatility, Vanguard, through its investor-owned* structure, has strived to consistently add value over its 40-plus-year history of managing index portfolios by proactively reducing costs and applying conservative securities lending and collateral reinvestment practices. Vanguard's investment principles are rooted in setting clear goals, maintaining balance, minimizing cost, and staying disciplined with a long-term perspective.

Performance of key Vanguard index funds

Fund name (inception date)	3Q 2023	4Q 2023	1Q 2024	2Q 2024	1-year
Vanguard Total Stock Market Index Fund (07/07/1997)	-3.30%	12.17%	10.00%	3.25%	23.20%
Vanguard Total International Stock Index Fund (11/29/2010)	-4.01%	9.98%	4.32%	0.80%	11.00%
Vanguard Total Bond Market Index Fund (09/18/1995)	-3.08%	6.69%	-0.79%	0.18%	2.77%
Vanguard Total International Bond Index Fund (05/31/2013)	-1.50%	6.54%	0.10%	-0.58%	4.43%
Vanguard Short-Term Inflation-Protected Securities Index Fund (10/17/2012)	0.43%	2.55%	0.85%	1.43%	5.35%

Source of performance figures: Vanguard, Institutional share class, as of June 30, 2024.

The performance data shown represent past performance, which is not a guarantee of future results. Investment returns and principal value will fluctuate, so, investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the performance data cited. For performance data current to the most recent month-end, visit our website at institutional.vanguard.com. Standard performance of the funds can be located on pages 8 and 23–25 of the Quarterly Review.



^{*} Vanguard is owned by its funds, which are owned by Vanguard's fund shareholder clients.



Fixed income market and fund performance

IN THIS SECTION:

Fixed income markets overview

Performance and attribution for Vanguard taxable fixed income index funds



Fixed income markets overview

Figure 5.1 Treasury yields (%)

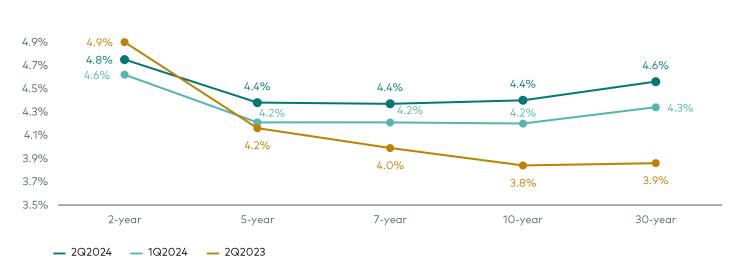


Figure 5.2 Inflation expectations*



The break-even inflation rate represents a measure of expected inflation derived from the difference between the nominal yield on the 10-year Treasury—which includes inflation expectations—and the yield of the 10-year Treasury Inflation-Protected Security (TIPS)—which does not include inflation expectations. This delta implies what the market believes will be the average rate of inflation over the next 10 years.





Fixed income markets overview

Figure 6.1 Credit spreads (1-year)

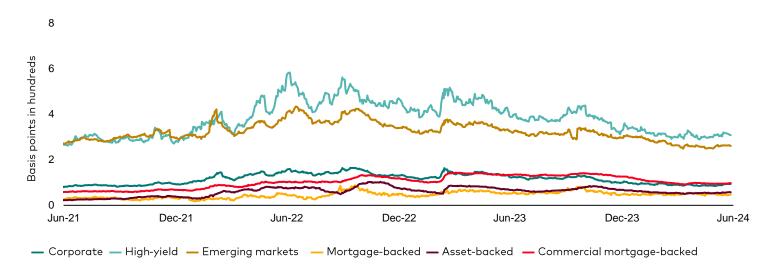
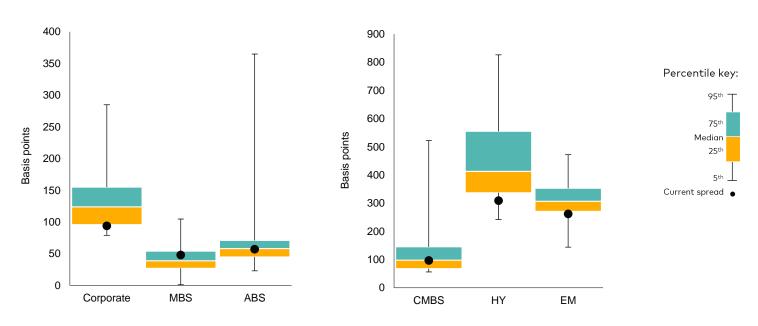


Figure 6.2 Credit spreads relative to comparable Treasuries over 20 years



Sources: Vanguard and Bloomberg. All data as of June 30, 2024, unless otherwise noted.

Note: Sectors represented by data from Bloomberg indexes: Bloomberg US Agg Corporate, Bloomberg US Corporate High Yield, Bloomberg EM USD Agg, Bloomberg US MBS Fixed Rate, Bloomberg US Agg ABS, and Bloomberg US Agg CMBS.





Fixed income markets overview

Figure 7.1 U.S. total return by sector

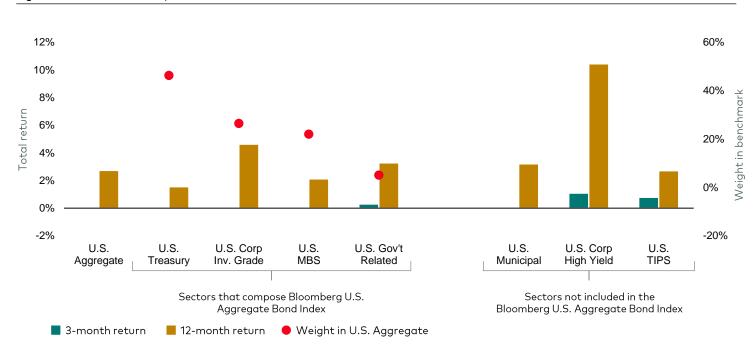
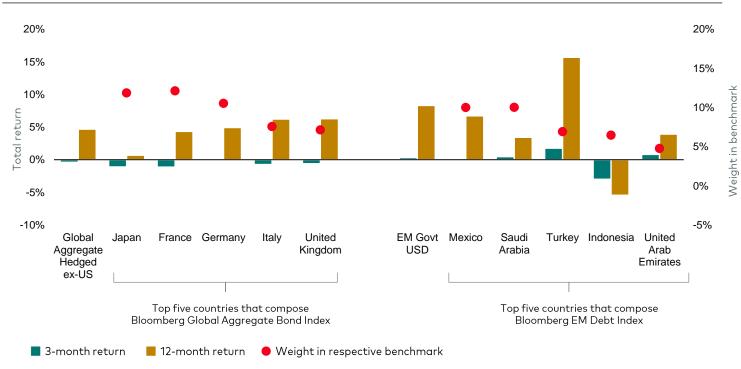


Figure 7.2 Developed and emerging markets total return by country



Sources: Vanguard and Bloomberg. All data as of June 30, 2024, unless otherwise noted.

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





Performance for all Vanguard taxable fixed income index funds

	Expense ratio	3 months	1 year	3 years	5 years	10 years	Since inception	Inception date
Broad-market								
Vanguard Total Bond Market Index Fund (VBTIX)	0.035	0.18	2.77	-2.99	-0.19	1.35	4.18	9/18/1995
Total Bond Market II Index Fund (VTBNX)	0.020	0.20	2.71	-3.00	-0.25	1.31	2.49	2/17/2009
Vanguard Mortgage-Backed Securities Index Fund (VMBIX)	0.050	0.19	2.41	-2.80	-0.72	0.82	1.04	10/31/2013
Vanguard Total Corporate Bond ETF (VTC)	0.040	_	_	_	_	_	_	_
Market price		-0.10	4.37	-3.10	0.47	_	1.47	11/7/2017
NAV		-0.12	4.30	-3.10	0.46	_	1.47	11/7/2017
Short-term								
Vanguard Short-Term Bond Index Fund (VBITX)	0.050	0.84	4.61	-0.23	1.00	1.38	1.37	9/27/2011
Vanguard Short-Term Inflation-Protected Securities Index Fund (VTSPX)	0.040	1.43	5.35	2.14	3.13	2.00	1.77	10/17/2012
Vanguard Short-Term Treasury Index Fund (VSBIX)	0.050	0.93	4.46	0.28	0.98	1.07	0.96	8/23/2010
Vanguard Short-Term Corporate Bond Index Fund (VSTBX)	0.050	1.00	5.95	0.36	1.66	2.05	2.59	11/19/2009
Intermediate-term								
Vanguard Intermediate-Term Bond Index Fund (VBIMX)	0.050	0.26	3.12	-3.04	0.10	1.77	3.78	1/26/2006
Vanguard Intermediate-Term Treasury Index Fund (VIIGX)	0.050	0.38	2.52	-2.68	-0.29	1.08	1.94	3/19/2010
Vanguard Intermediate-Term Corporate Bond Index Fund (VICBX)	0.050	0.47	5.65	-2.26	0.97	2.57	4.05	11/19/2009
Fund Purchase Transaction Fee: 0.25								
Long-term								
Vanguard Long-Term Bond Index Fund (VBLLX)	0.050	-1.54	-1.55	-8.51	-2.16	1.68	4.30	2/2/2006
Fund Purchase Transaction Fee: 0.50								
Vanguard Long-Term Treasury Index Fund (VLGIX)	0.050	-1.64	-5.63	-10.52	-4.30	0.56	2.13	7/30/2010
Vanguard Long-Term Corporate Bond Index Fund (VLCIX)	0.050	-1.67	2.12	-6.92	-0.85	2.46	4.61	11/19/2009
Fund Purchase Transaction Fee: 1.00								
Vanguard Extended Duration Treasury Index Fund (VEDTX)	0.060	-3.41	-12.69	-16.24	-7.39	-0.06	3.03	11/28/2007
Fund Purchase Transaction Fee: 0.50								
International/Global								
Vanguard Total International Bond Index Fund (VTIFX)	0.070	-0.58	4.43	-1.96	-0.37	1.97	2.15	5/31/2013
Vanguard Emerging Markets Government Bond Index Fund (VGIVX)	0.180	0.29	8.16	-2.50	0.10	_	2.81	2/11/2015
Fund Purchase Transaction Fee: 0.75								
Vanguard Total World Bond ETF (BNDW)	0.050	_	_	_	_	_	_	_
Market price		-0.18	3.45	-2.51	-0.30	_	1.02	9/4/2018
NAV		-0.18	3.41	-2.48	-0.28	_	1.02	9/4/2018

Source: Vanguard. All data as of June 30, 2024, unless otherwise noted.

Performance data for periods of less than one year does not reflect the deduction of purchase and redemption fees that may apply. All other performance data are adjusted for purchase and redemption fees, where applicable. If these fees were included, the performance would be lower. The performance data shown represent past performance, which is not a guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the performance data cited. For performance data current to the most recent month-end, visit our website at institutional.vanguard.com/performance



Figure 9.1 Year-to-date excess return performance attribution as of June 30, 2024



	Benchmark return	Expense ratio impact ²	Fair- value impact	Pricing impact ³	Other ⁴	Fund return	Excess return ¹
Vanguard Total Bond Market Index Fund (VBTIX)	-0.644	-0.017	0.000	0.034	0.017	-0.611	0.033
Total Bond Market II Index Fund (VTBNX)	-0.644	-0.010	0.000	0.051	0.002	-0.601	0.043
Vanguard Short-Term Bond Index Fund (VBITX)	0.967	-0.025	0.000	0.067	0.004	1.013	0.047
Vanguard Intermediate-Term Bond Index Fund (VBIMX)	-0.514	-0.025	0.000	0.041	-0.002	-0.500	0.014
Vanguard Long-Term Bond Index Fund (VBLLX)	-4.096	-0.024	0.000	0.106	0.034	-3.980	0.115
Vanguard Mortgage-Backed Securities Index Fund (VMBIX)	-0.760	-0.025	0.000	0.002	0.036	-0.748	0.013
Vanguard Total International Bond Index Fund (VTIFX)	-0.306	-0.035	0.036	-0.180	-0.003	-0.488	-0.182
Vanguard Emerging Markets Government Bond Index Fund (VGIVX)	1.577	-0.091	-0.121	0.098	0.009	1.472	-0.105

Numbers may not total 100% due to rounding.

Source: Vanguard. All data as of June 30, 2024, unless otherwise noted.



¹ Excess return equals fund return minus benchmark return.

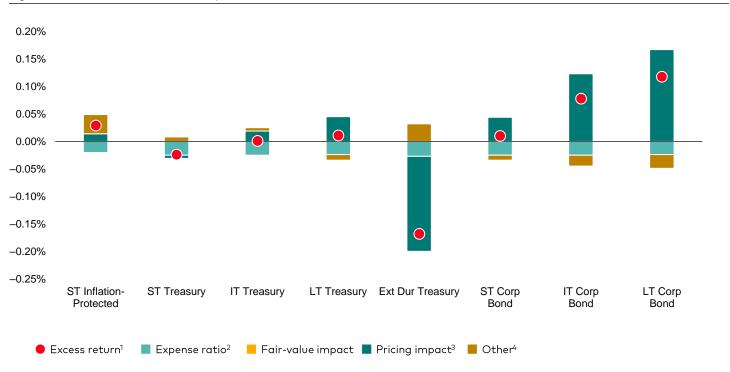
² Expense ratio impact (ER) attribution includes the impact of compounding on fund returns over time. Consequently, a fund's ER (above) may appear larger than the published ER.

³ Pricing impact includes differences in external pricing vendor inputs.

⁴ Other category may include performance impacts from the following sources: portfolio manager investment decisions, trading impact, and tax withholding differences (funds with international investments only).



Figure 10.1 Year-to-date excess return performance attribution as of June 30, 2024



	Benchmark return	Expense ratio impact²	Fair- value impact	Pricing impact ³	Other ⁴	Fund return	Excess return ¹
Vanguard Short-Term Inflation-Protected Securities Index Fund (VTSPX)	2.264	-0.020	0.000	0.014	0.035	2.293	0.029
Vanguard Short-Term Treasury Index Fund (VSBIX)	1.188	-0.025	0.000	-0.006	0.008	1.164	-0.024
Vanguard Intermediate-Term Treasury Index Fund (VIIGX)	-0.480	-0.025	0.000	0.019	0.006	-0.480	0.001
Vanguard Long-Term Treasury Index Fund (VLGIX)	-5.012	-0.024	0.000	0.045	-0.010	-5.001	0.011
Vanguard Extended Duration Treasury Index Fund (VEDTX)	-9.156	-0.027	0.000	-0.173	0.032	-9.324	-0.168
Vanguard Short-Term Corporate Bond Index Fund (VSTBX)	1.561	-0.025	0.000	0.044	-0.009	1.571	0.010
Vanguard Intermediate-Term Corporate Bond Index Fund (VICBX)	0.185	-0.025	0.000	0.123	-0.020	0.263	0.078
Vanguard Long-Term Corporate Bond Index Fund (VLCIX)	-3.394	-0.024	0.000	0.167	-0.025	-3.277	0.118

Numbers may not total 100% due to rounding.

Source: Vanguard. All data as of June 30, 2024, unless otherwise noted.



¹ Excess return equals fund return minus benchmark return.

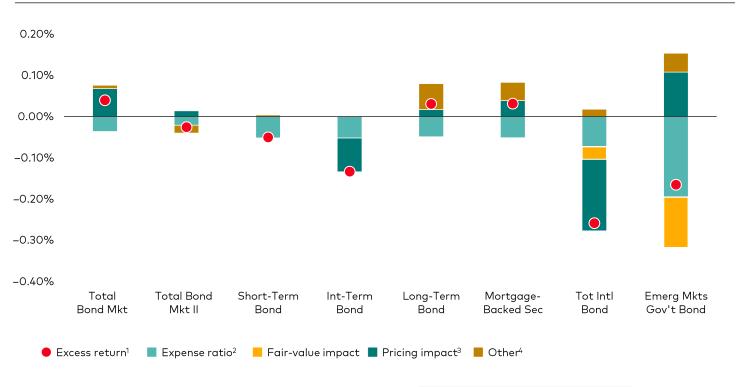
² Expense ratio impact (ER) attribution includes the impact of compounding on fund returns over time. Consequently, a fund's ER (above) may appear larger than the published ER.

³ Pricing impact includes differences in external pricing vendor inputs.

⁴ Other category may include performance impacts from the following sources: portfolio manager investment decisions, trading impact, and tax withholding differences (funds with international investments only).



Figure 11.1 One-year excess return performance attribution as of June 30, 2024



	Benchmark return	Expense ratio impact ²	Fair- value impact	Pricing impact ³	Other⁴	Fund return	Excess return ¹
Vanguard Total Bond Market Index Fund (VBTIX)	2.734	-0.036	0.000	0.068	0.008	2.774	0.040
Total Bond Market II Index Fund (VTBNX)	2.734	-0.021	0.000	0.014	-0.019	2.709	-0.025
Vanguard Short-Term Bond Index Fund (VBITX)	4.658	-0.052	0.000	-0.001	0.004	4.608	-0.050
Vanguard Intermediate-Term Bond Index Fund (VBIMX)	3.255	-0.052	0.000	-0.082	0.000	3.121	-0.133
Vanguard Long-Term Bond Index Fund (VBLLX)	-1.583	-0.049	0.000	0.017	0.063	-1.552	0.031
Vanguard Mortgage-Backed Securities Index Fund (VMBIX)	2.382	-0.051	0.000	0.039	0.044	2.414	0.032
Vanguard Total International Bond Index Fund (VTIFX)	4.688	-0.073	-0.031	-0.173	0.018	4.429	-0.258
Vanguard Emerging Markets Government Bond Index Fund (VGIVX)	8.324	-0.195	-0.123	0.108	0.046	8.159	-0.165

Numbers may not total 100% due to rounding.

Source: Vanguard. All data as of June 30, 2024, unless otherwise noted.



¹ Excess return equals fund return minus benchmark return.

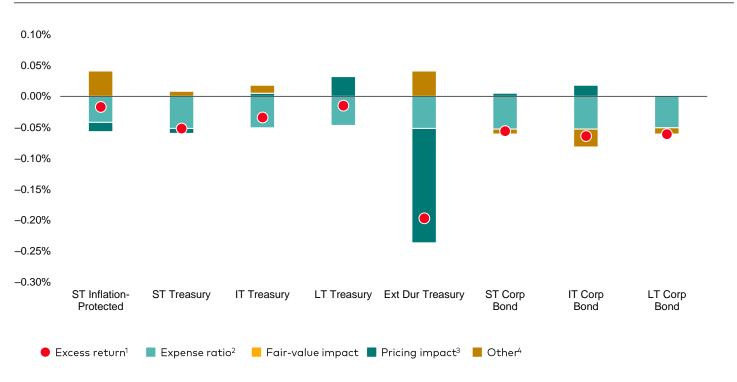
² Expense ratio impact (ER) attribution includes the impact of compounding on fund returns over time. Consequently, a fund's ER (above) may appear larger than the published ER.

³ Pricing impact includes differences in external pricing vendor inputs.

⁴ Other category may include performance impacts from the following sources: portfolio manager investment decisions, trading impact, and tax withholding differences (funds with international investments only).



Figure 12.1 One-year excess return performance attribution as of June 30, 2024



	Benchmark return	Expense ratio impact ²	Fair- value impact	Pricing impact ³	Other ⁴	Fund return	Excess return ¹
Vanguard Short-Term Inflation-Protected Securities Index Fund (VTSPX)	5.369	-0.042	0.000	-0.015	0.041	5.352	-0.017
Vanguard Short-Term Treasury Index Fund (VSBIX)	4.508	-0.052	0.000	-0.008	0.008	4.456	-0.052
Vanguard Intermediate-Term Treasury Index Fund (VIIGX)	2.551	-0.051	0.000	0.005	0.013	2.517	-0.034
Vanguard Long-Term Treasury Index Fund (VLGIX)	-5.614	-0.047	0.000	0.032	0.000	-5.629	-0.015
Vanguard Extended Duration Treasury Index Fund (VEDTX)	-12.494	-0.052	0.000	-0.185	0.041	-12.691	-0.197
Vanguard Short-Term Corporate Bond Index Fund (VSTBX)	6.007	-0.053	0.000	0.005	-0.008	5.951	-0.056
Vanguard Intermediate-Term Corporate Bond Index Fund (VICBX)	5.719	-0.053	0.000	0.018	-0.029	5.654	-0.064
Vanguard Long-Term Corporate Bond Index Fund (VLCIX)	2.179	-0.051	0.000	0.000	-0.010	2.119	-0.061

Numbers may not total 100% due to rounding.

Source: Vanguard. All data as of June 30, 2024, unless otherwise noted.



¹ Excess return equals fund return minus benchmark return.

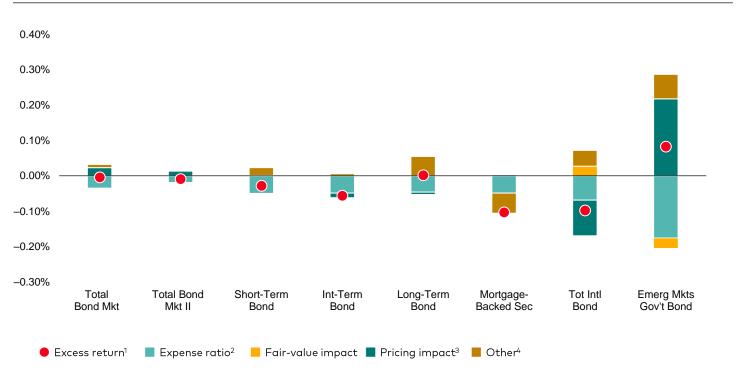
² Expense ratio impact (ER) attribution includes the impact of compounding on fund returns over time. Consequently, a fund's ER (above) may appear larger than the published ER.

³ Pricing impact includes differences in external pricing vendor inputs.

⁴ Other category may include performance impacts from the following sources: portfolio manager investment decisions, trading impact, and tax withholding differences (funds with international investments only).



Figure 13.1 Three-year excess return performance attribution as of June 30, 2024



	Benchmark return	Expense ratio impact ²	Fair- value impact	Pricing impact ³	Other ⁴	Fund return	Excess return ¹
Vanguard Total Bond Market Index Fund (VBTIX)	-2.991	-0.035	0.000	0.023	0.009	-2.994	-0.004
Total Bond Market II Index Fund (VTBNX)	-2.991	-0.019	0.000	0.013	-0.002	-2.999	-0.009
Vanguard Short-Term Bond Index Fund (VBITX)	-0.198	-0.050	0.000	0.001	0.022	-0.225	-0.028
Vanguard Intermediate-Term Bond Index Fund (VBIMX)	-2.986	-0.049	0.000	-0.013	0.006	-3.043	-0.056
Vanguard Long-Term Bond Index Fund (VBLLX)	-8.511	-0.046	0.000	-0.007	0.055	-8.509	0.002
Vanguard Mortgage-Backed Securities Index Fund (VMBIX)	-2.693	-0.049	0.000	0.003	-0.057	-2.796	-0.103
Vanguard Total International Bond Index Fund (VTIFX)	-1.866	-0.069	0.027	-0.101	0.045	-1.963	-0.098
Vanguard Emerging Markets Government Bond Index Fund (VGIVX)	-2.583	-0.176	-0.029	0.218	0.069	-2.500	0.083

Numbers may not total 100% due to rounding.

Source: Vanguard. All data as of June 30, 2024, unless otherwise noted.



¹ Excess return equals fund return minus benchmark return.

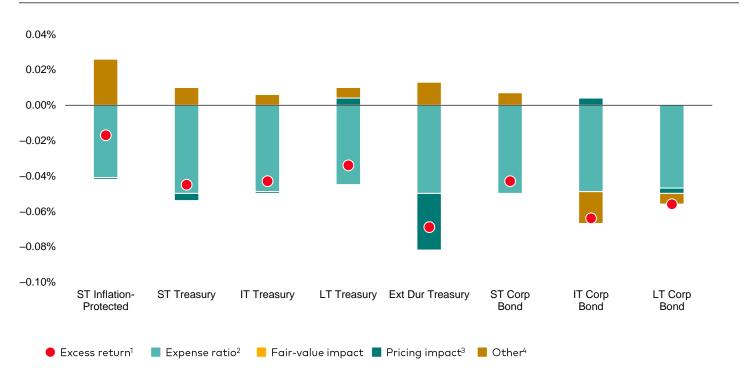
² Expense ratio impact (ER) attribution includes the impact of compounding on fund returns over time. Consequently, a fund's ER (above) may appear larger than the published ER.

³ Pricing impact includes differences in external pricing vendor inputs.

⁴ Other category may include performance impacts from the following sources: portfolio manager investment decisions, trading impact, and tax withholding differences (funds with international investments only).



Figure 14.1 Three-year excess return performance attribution as of June 30, 2024



	Benchmark return	Expense ratio impact ²	Fair- value impact	Pricing impact ³	Other ⁴	Fund return	Excess return ¹
Vanguard Short-Term Inflation-Protected Securities Index Fund (VTSPX)	2.153	-0.041	0.000	-0.001	0.026	2.137	-0.017
Vanguard Short-Term Treasury Index Fund (VSBIX)	0.328	-0.050	0.000	-0.004	0.010	0.283	-0.045
Vanguard Intermediate-Term Treasury Index Fund (VIIGX)	-2.640	-0.049	0.000	-0.001	0.006	-2.683	-0.043
Vanguard Long-Term Treasury Index Fund (VLGIX)	-10.488	-0.045	0.000	0.004	0.006	-10.522	-0.034
Vanguard Extended Duration Treasury Index Fund (VEDTX)	-16.170	-0.050	0.000	-0.032	0.013	-16.240	-0.069
Vanguard Short-Term Corporate Bond Index Fund (VSTBX)	0.403	-0.050	0.000	0.000	0.007	0.360	-0.043
Vanguard Intermediate-Term Corporate Bond Index Fund (VICBX)	-2.199	-0.049	0.000	0.004	-0.018	-2.263	-0.064
Vanguard Long-Term Corporate Bond Index Fund (VLCIX)	-6.868	-0.047	0.000	-0.003	-0.006	-6.924	-0.056

Numbers may not total 100% due to rounding.

Source: Vanguard. All data as of June 30, 2024, unless otherwise noted.



¹ Excess return equals fund return minus benchmark return.

² Expense ratio impact (ER) attribution includes the impact of compounding on fund returns over time. Consequently, a fund's ER (above) may appear larger than the published ER.

³ Pricing impact includes differences in external pricing vendor inputs.

⁴ Other category may include performance impacts from the following sources: portfolio manager investment decisions, trading impact, and tax withholding differences (funds with international investments only).



Equity market and fund performance

IN THIS SECTION:

Equity markets overview

Performance and attribution for Vanguard equity index funds



U.S. equity markets overview

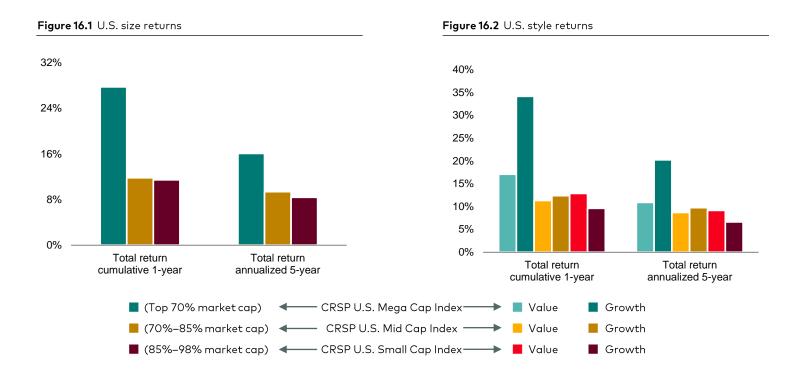
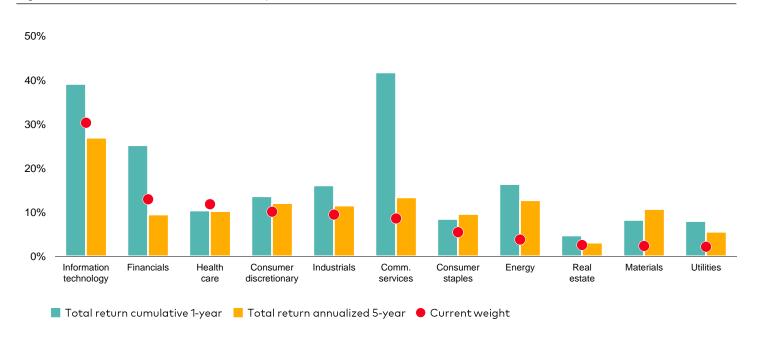


Figure 16.3 CRSP Total Stock Market: Sector exposures and returns



Source: Vanguard. All data as of June 30, 2024, unless otherwise noted.

Past performance is no guarantee of future returns. The performance of an index is not an exact representation of any particular investment, as you cannot invest directly in an index.



Global equity markets overview

Figure 17.1 Regional returns

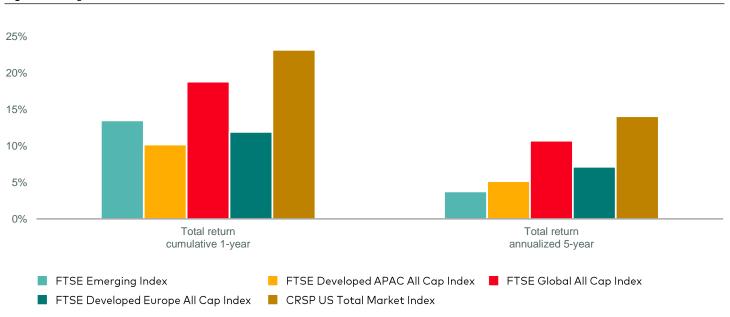


Figure 17.2 FTSE All Cap Developed ex-U.S.: Largest markets and returns1

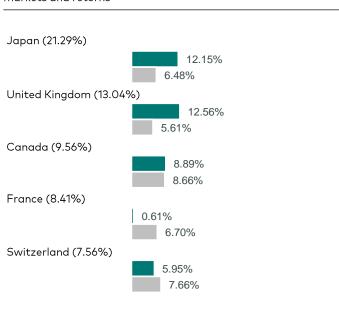
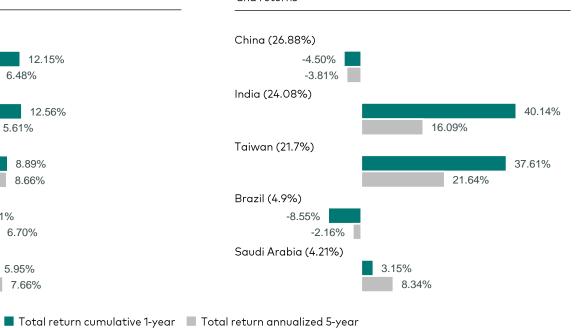


Figure 17.3 FTSE All Cap Emerging: Largest markets and returns1



Source: FactSet. All data as of June 30, 2024, unless otherwise noted.

¹Global benchmarks include other countries not listed above

Market name (index weight)

Past performance is no guarantee of future returns. The performance of an index is not an exact representation of any particular investment, as you cannot invest directly in an index.





Performance for selected Vanguard equity index funds

Figure 18.1 Fund net returns since inception

	Expense ratio	3 months	1 year	3 years	5 years	10 years	Since inception	Inception date
Vanguard Total Stock Market Index Fnd (VITSX)	0.03	3.25	23.20	7.91	14.07	12.11	8.95	7/7/1997
Vanguard Mega Cap Index Fnd (VMCTX)	0.06	5.76	27.72	10.61	16.03	13.45	11.42	2/22/2008
Vanguard Institutional Index Fnd (VINIX)	0.04	4.28	24.51	9.97	15.01	12.83	10.61	7/31/1990
Vanguard Extended Market Index Fnd (VIEIX)	0.05	-3.42	14.97	-2.46	8.71	8.27	8.68	7/7/1997
Vanguard Large-Cap Index Fnd (VLISX)	0.04	4.30	24.96	9.16	14.92	12.72	10.59	6/30/2005
Vanguard Mid-Cap Index Fnd (VMCIX)	0.04	-2.74	11.82	2.23	9.39	9.11	9.81	5/21/1998
Vanguard Small-Cap Index Fnd (VSCIX)	0.04	-4.15	11.50	0.51	8.45	8.09	8.83	7/7/1997
Vanguard Developed Markets Index Fnd (VTMNX)	0.06	-0.75	10.60	1.82	6.54	4.53	4.76	1/4/2001
Vanguard Emerging Markets Stock Index Fnd (VEMIX)	0.10	5.31	11.92	-3.69	3.79	3.04	6.55	6/22/2000
Vanguard Total International Stock Index Fnd (VTSNX)	0.09	0.80	11.00	0.37	5.78	4.05	5.09	11/29/2010

Source: Vanguard. All data as of June 30, 2024, unless otherwise noted.

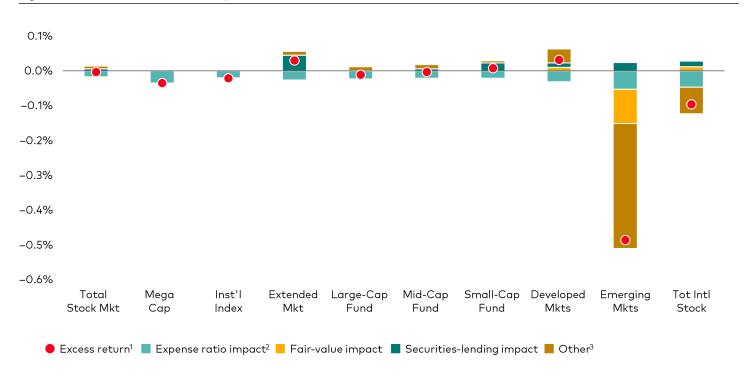
The performance data shown represent past performance, which is not a guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the performance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





Attribution for selected Vanguard equity index funds

Figure 19.1 Year-to-date excess return performance attribution as of June 30, 2024



	Benchmark return	Expense ratio impact ²	Fair- value impact	Securities- lending impact	Other ³	Fund return	Excess return ¹
Vanguard Total Stock Market Index Fund (VITSX)	13.581	-0.017	0.000	0.006	0.008	13.578	-0.003
Vanguard Mega Cap Index Fund (VMCTX)	17.311	-0.035	0.000	0.000	0.000	17.276	-0.035
Vanguard Institutional Index Fund (VINIX)	15.292	-0.020	0.000	0.000	-0.001	15.271	-0.021
Vanguard Extended Market Index Fund (VIEIX)	3.282	-0.026	0.000	0.045	0.011	3.312	0.030
Vanguard Large-Cap Index Fund (VLISX)	15.143	-0.023	0.000	0.001	0.011	15.132	-0.011
Vanguard Mid-Cap Index Fund (VMCIX)	4.899	-0.021	0.000	0.006	0.012	4.896	-0.003
Vanguard Small-Cap Index Fund (VSCIX)	3.053	-0.021	0.000	0.023	0.006	3.061	0.008
Vanguard Developed Markets Index Fund (VTMNX)	4.323	-0.031	0.010	0.013	0.040	4.355	0.032
Vanguard Emerging Markets Stock Index Fund (VEMIX)	7.799	-0.053	-0.098	0.024	-0.359	7.313	-0.486
Vanguard Total International Stock Index Fund (VTSNX)	5.241	-0.047	0.012	0.016	-0.076	5.145	-0.096

Numbers may not total 100% due to rounding.

Source: Vanguard. All data as of June 30, 2024, unless otherwise noted.



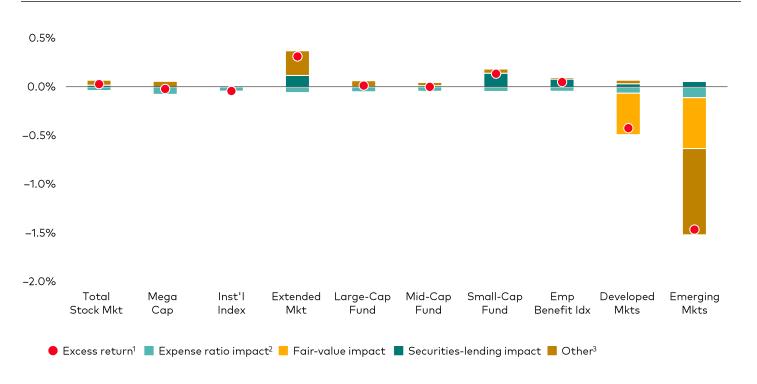
 $^{^{\}rm 1}\,$ Excess return equals fund return minus benchmark return.

² Expense ratio impact (ER) attribution includes the impact of compounding on fund returns over time. Consequently, a fund's ER (above) may appear larger than the published ER.

³ Other category may include fund performance impacts from the following sources: portfolio manager investment decisions, trading impact, tax withholding differences with the benchmark (funds with international investments only, India capital gains tax (not part of the benchmark methodology), and security pricing differences with the benchmark.



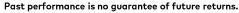
Figure 20.1 One-year excess return performance attribution as of June 30, 2024



	Benchmark return	Expense ratio impact ²	Fair- value impact	Securities- lending impact	Other ³	Fund return	Excess return ¹
Vanguard Total Stock Market Index Fund (VITSX)	23.168	-0.037	0.000	0.016	0.051	23.197	0.029
Vanguard Mega Cap Index Fund (VMCTX)	27.737	-0.077	0.000	0.000	0.056	27.716	-0.021
Vanguard Institutional Index Fund (VINIX)	24.556	-0.044	0.000	0.000	0.001	24.514	-0.042
Vanguard Extended Market Index Fund (VIEIX)	14.658	-0.058	0.000	0.117	0.252	14.969	0.312
Vanguard Large-Cap Index Fund (VLISX)	24.943	-0.050	0.000	0.002	0.061	24.957	0.014
Vanguard Mid-Cap Index Fund (VMCIX)	11.817	-0.045	0.000	0.012	0.033	11.817	0.000
Vanguard Small-Cap Index Fund (VSCIX)	11.449	-0.045	0.000	0.079	0.016	11.500	0.050
Vanguard Developed Markets Index Fund (VTMNX)	11.025	-0.066	-0.425	0.031	0.036	10.600	-0.424
Vanguard Emerging Markets Stock Index Fund (VEMIX)	13.385	-0.112	-0.521	0.055	-0.886	11.921	-1.464
Vanguard Total International Stock Index Fund (VTSNX)	11.681	-0.100	-0.433	0.036	-0.187	10.997	-0.684
Vanguard Employee Benefit Index Fund	24.556	-0.001	0.000	0.001	0.002	24.558	0.002

Numbers may not total 100% due to rounding.

³ Other category may include fund performance impacts from the following sources: portfolio manager investment decisions, trading impact, tax withholding differences with the benchmark (funds with international investments only, India capital gains tax (not part of the benchmark methodology), and security pricing differences with the benchmark.



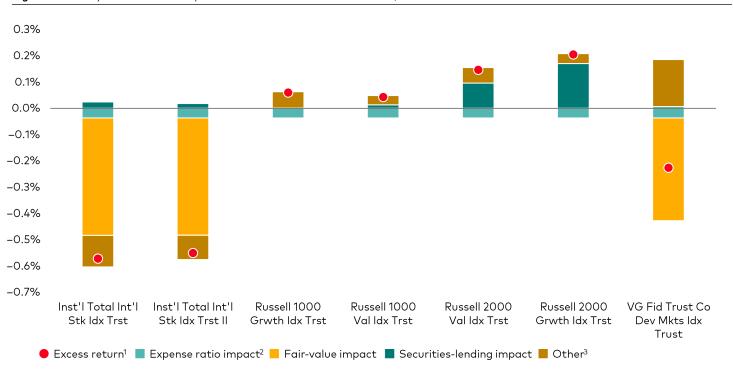
¹ Excess return equals fund return minus benchmark return.

² Expense ratio impact (ER) attribution includes the impact of compounding on fund returns over time. Consequently, a fund's ER (above) may appear larger than the published ER.



Attribution for selected Vanguard equity index trusts

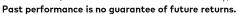
Figure 21.1 One-year excess return performance attribution as of June 30, 2024



	Benchmark return	Expense ratio impact ²	Fair- value impact	Securities- lending impact	Other ³	Fund return	Excess return ¹
Vanguard Institutional Total International Stock Index Trust	11.681	-0.030	-0.447	0.024	-0.120	11.109	-0.572
Vanguard Institutional Total International Stock Market Index Trust II	11.681	-0.030	-0.446	0.018	-0.093	11.130	-0.551
Vanguard Russell 1000 Growth Index Trust	33.482	-0.002	0.000	0.001	0.062	33.542	0.060
Vanguard Russell 1000 Value Index Trust	13.057	-0.005	0.000	0.013	0.035	13.100	0.043
Vanguard Russell 2000 Value Index Trust	10.896	-0.009	0.000	0.096	0.059	11.042	0.146
Vanguard Russell 2000 Growth Index Trust	9.137	-0.003	0.000	0.170	0.038	9.342	0.205
Vanguard Fiduciary Trust Company Developed Markets Index Trust	11.025	-0.020	-0.391	0.006	0.179	10.798	-0.226

Numbers may not total 100% due to rounding.

³ Other category may include fund performance impacts from the following sources: portfolio manager investment decisions, trading impact, tax withholding differences with the benchmark (funds with international investments only, India capital gains tax (not part of the benchmark methodology), and security pricing differences with the benchmark.



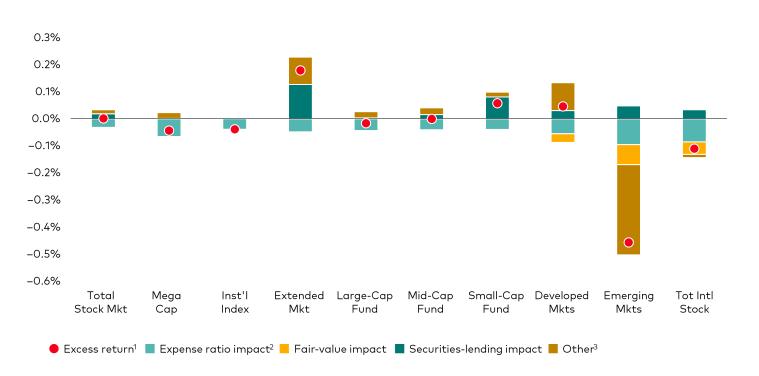


¹ Excess return equals fund return minus benchmark return.

² Expense ratio impact (ER) attribution includes the impact of compounding on fund returns over time. Consequently, a fund's ER (above) may appear larger than the published ER.



Figure 22.1 Three-year excess return performance attribution as of June 30, 2024



	Benchmark return	Expense ratio impact ²	Fair- value impact	Securities- lending impact	Other ³	Fund return	Excess return ¹
Vanguard Total Stock Market Index Fund (VITSX)	7.912	-0.032	0.000	0.018	0.015	7.914	0.001
Vanguard Mega Cap Index Fund (VMCTX)	10.650	-0.066	0.000	0.001	0.021	10.606	-0.044
Vanguard Institutional Index Fund (VINIX)	10.013	-0.039	0.000	0.000	0.000	9.974	-0.039
Vanguard Extended Market Index Fund (VIEIX)	-2.636	-0.049	0.000	0.126	0.101	-2.457	0.178
Vanguard Large-Cap Index Fund (VLISX)	9.180	-0.044	0.000	0.003	0.023	9.163	-0.017
Vanguard Mid-Cap Index Fund (VMCIX)	2.227	-0.041	0.000	0.015	0.025	2.226	-0.001
Vanguard Small-Cap Index Fund (VSCIX)	0.457	-0.040	0.000	0.080	0.018	0.514	0.057
Vanguard Developed Markets Index Fund (VTMNX)	1.771	-0.056	-0.032	0.030	0.103	1.816	0.045
Vanguard Emerging Markets Stock Index Fund (VEMIX)	-3.228	-0.096	-0.074	0.047	-0.333	-3.685	-0.457
Vanguard Total International Stock Index Fund (VTSNX)	0.477	-0.086	-0.046	0.033	-0.012	0.366	-0.111

Numbers may not total 100% due to rounding.

³ Other category may include performance impacts from the following sources: portfolio manager investment decisions, trading impact, tax withholding differences (funds with international investments only), and security pricing differences.





¹ Excess return equals fund return minus benchmark return.

² Expense ratio impact (ER) attribution includes the impact of compounding on fund returns over time. Consequently, a fund's ER (above) may appear larger than the published ER.



Performance for all Vanguard equity index funds

	Expense ratio	3 months	1 year	3 years	5 years	10 years	Since inception	Inception date
All-cap								
Vanguard Total Stock Market Index Fnd (VITSX)	0.03	3.25	23.20	7.91	14.07	12.11	8.95	7/7/1997
Vanguard Instl Total Stock Market Index Fnd (VITNX)	0.03	3.23	23.21	7.94	14.09	12.13	9.46	8/31/2001
Vanguard High Dividend Yield ETF (VYM)								
Market price	_	-1.21	15.31	7.51	9.75	9.37	8.33	11/10/2006
NAV	0.06	-1.17	15.37	7.53	9.76	9.38	8.33	11/10/2006
Vanguard Russell 3000 Index Fnd (VRTTX)	0.08	3.20	23.08	7.99	14.08	12.08	13.47	11/1/2010
Large-cap								
Vanguard Institutional Index Fnd (VINIX)	0.04	4.28	24.51	9.97	15.01	12.83	10.61	7/31/1990
Vanguard Tax-Managed Capital Apprec. Fnd (VTCIX)	0.06	3.38	23.68	8.86	14.70	12.65	8.36	2/24/1999
Vanguard FTSE Social Index Fnd (VFTNX)	0.12	4.86	26.21	8.84	15.29	13.40	10.35	1/14/2003
Vanguard Large-Cap Index Fnd (VLISX)	0.04	4.30	24.96	9.16	14.92	12.72	10.59	6/30/2005
Vanguard Mega Cap Index Fnd (VMCTX)	0.06	5.76	27.72	10.61	16.03	13.45	11.42	2/22/2008
Vanguard Mega Cap Growth Index Fnd (VMGAX)	0.06	9.61	34.07	11.34	20.16	16.25	13.77	4/3/2008
Vanguard Mega Cap Value Index Fnd (VMVLX)	0.06	-0.25	17.12	8.69	10.87	10.20	8.97	3/5/2008
Vanguard Value Index Fnd (VIVIX)	0.04	-0.93	15.85	8.01	10.51	9.89	7.37	7/2/1998
Vanguard Growth Index Fnd (VIGIX)	0.04	8.66	32.79	9.91	18.79	15.34	9.15	5/14/1998
Vanguard 500 Index Fnd Admiral™ (VFIAX)	0.04	4.27	24.51	9.97	15.00	12.82	8.10	11/13/2000
Vanguard S&P 500 Growth ETF (VOOG)								
Market price	_	9.56	32.38	9.29	16.76	14.82	16.17	9/7/2010
NAV	0.10	9.56	32.39	9.30	16.75	14.82	16.17	9/7/2010
Vanguard S&P 500 Value Index Fnd (VSPVX)	0.08	-2.11	15.21	9.50	11.81	_	9.89	3/3/2015
Vanguard Russell 1000 Index Fnd (VRNIX)	0.07	3.56	23.85	8.69	14.55	12.43	13.76	10/15/2010
Vanguard Russell 1000 Value Index Fnd (VRVIX)	0.07	-2.17	13.02	5.46	8.95	8.16	10.30	12/10/2010
Vanguard Russell 1000 Growth Index Fnd (VRGWX)	0.07	8.31	33.45	11.23	19.28	16.26	16.22	12/6/2010
Vanguard Dividend Apprec. Index Fnd Adm (VDADX)	0.08	0.41	14.58	7.72	11.72	11.07	11.17	12/19/2013
Vanguard Employee Benefit Index Fnd	_	4.28	24.56	10.02	15.06	12.88	11.60	9/30/1985
Vanguard Russell 1000 Growth Index Trust	_	8.33	33.54	11.30	19.36	16.35	12.43	9/30/2003
Vanguard Russell 1000 Value Index Trust	_	-2.16	13.10	5.54	9.04	8.26	8.77	9/30/2003
Mid-cap								
Vanguard Extended Market Index Fnd (VIEIX)	0.05	-3.42	14.97	-2.46	8.71	8.27	8.68	7/7/1997
Vanguard Mid-Cap Index Fnd (VMCIX)	0.04	-2.74	11.82	2.23	9.39	9.11	9.81	5/21/1998
Vanguard S&P Mid-Cap 400 Index Fnd (VSPMX)	0.08	-3.46	13.50	4.40	10.20	9.07	10.37	3/28/2011
Vanguard S&P Mid-Cap 400 Grth Index Fnd (VMFGX)	0.08	-3.39	18.74	3.98	10.42	9.64	10.58	3/28/2011
Vanguard S&P Mid-Cap 400 Value ldx Fnd (VMFVX)	0.08	-3.53	8.12	4.60	9.49	8.13	10.72	11/2/2010
Vanguard Mid-Cap Grth Index Fnd Adm (VMGMX)	0.07	-2.53	12.33	-0.29	9.72	9.91	12.20	9/27/2011
Vanguard Mid-Cap Value Index Fnd Adm (VMVAX)	0.07	-2.95	11.33	4.64	8.68	8.08	11.78	9/27/2011

Source: Vanguard. All data as of June 30, 2024, unless otherwise noted.

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Performance for all Vanguard equity index funds

	Expense ratio	3 months	1 year	3 years	5 years	10 years	Since inception	Inception date
Small-cap								
Vanguard Tax-Managed Small-Cap Fnd (VTSIX)	0.11	-3.16	8.59	-0.23	8.08	8.24	9.81	4/21/1999
Vanguard Small-Cap Index Fnd (VSCIX)	0.10	-4.15	11.50	0.51	8.45	8.09	8.83	7/7/1997
Vanguard Small-Cap Value Index Fnd (VSIIX)	0.10	-4.35	12.86	3.91	9.19	7.90	9.78	12/7/1999
Vanguard Small-Cap Growth Index Fnd (VSGIX)	0.10	-3.89	9.68	-4.20	6.67	7.83	8.90	5/24/2000
Vanguard S&P Small-Cap 600 Index Fnd (VSMSX)	0.10	-3.12	8.60	-0.34	8.04	8.22	9.88	4/1/2011
Vanguard S&P Small-Cap 600 Growth ETF (VIOG)								
Market price	_	0.00	0.00	0.00	0.00	0.00	0.00	1/0/1900
NAV	0.10	-1.44	12.86	0.00	8.19	8.94	12.40	9/7/2010
Vanguard S&P Small-Cap 600 Value ldx Fnd (VSMVX)	0.10	-4.85	4.17	-0.85	7.44	_	7.59	11/19/2014
Vanguard Russell 2000 Index Fnd (VRTIX)	0.10	-3.27	10.12	-2.53	7.02	7.09	8.84	12/22/2010
Vanguard Russell 2000 Value Index Fnd (VRTVX)	0.10	-3.64	10.92	-0.52	7.12	6.26	8.94	7/13/2012
Vanguard Russell 2000 Growth Index Fnd (VRTGX)	0.00	-2.90	9.25	-4.78	6.28	7.52	9.13	5/25/2011
Vanguard Russell 2000 Growth Index Trust	_	-2.89	9.34	-4.69	6.36	7.62	9.06	9/30/2003
Vanguard Russell 2000 Value Index Trust	_	-3.61	11.04	-0.43	7.20	6.34	8.28	9/30/2003
Sector								
Vanguard Real Estate Index Fnd (VGSNX)	0.11	-1.91	4.79	-2.53	2.98	5.32	7.71	12/2/2003
Vanguard Energy Index Fnd Admiral (VENAX)	0.10	-2.29	16.67	23.56	12.96	2.36	7.24	10/7/2004
Vanguard Materials Index Fnd Admiral (VMIAX)	0.10	-5.32	7.69	4.05	10.52	7.71	8.76	2/11/2004
Vanguard Industrials Index Fnd Admiral (VINAX)	0.10	-3.34	16.09	7.71	11.68	10.36	9.00	5/8/2006
Vanguard Consumer Discretionary Index Fnd Admiral (VCDAX)	0.10	-1.57	11.30	0.82	13.06	12.56	10.99	7/14/2005
Vanguard Consumer Staples Idx Fnd Admiral (VCSAX)	0.10	0.26	7.27	6.28	9.16	8.56	9.53	1/30/2004
Vanguard Health Care Index Fnd Admiral (VHCIX)	0.10	-1.30	10.22	3.93	10.39	10.68	10.00	2/5/2004
Vanguard Financials Index Fnd Admiral (VFAIX)	0.10	-2.06	25.43	5.65	10.14	10.29	5.73	2/4/2004
Vanguard Information Technology Idx Fnd Adm (VITAX)	0.10	10.06	31.25	13.96	23.35	20.88	14.34	3/25/2004
Vanguard Communication Services Index Fnd Admiral (VTCAX)	0.10	5.59	31.35	-0.34	10.86	6.79	7.69	3/11/2005
Vanguard Utilities Index Fnd Admiral (VUIAX)	0.10	4.48	7.59	5.45	5.43	7.75	9.14	4/28/2004

Source: Vanguard. All data as of June 30, 2024, unless otherwisenoted.

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



Performance for all Vanguard equity index funds

	Expense ratio	3 months	1 year	3 years	5 years	10 years	Since inception	Inception date
International								
Vanguard Developed Markets Index Fnd (VTMNX)	0.06	-0.75	10.60	1.82	6.54	4.53	4.76	1/4/2001
Vanguard European Stock Index Fnd (VESIX)	0.09	0.52	11.52	3.23	7.19	4.33	4.60	5/15/2000
Vanguard Pacific Stock Index Fnd (VPKIX)	0.08	-2.23	9.59	-0.54	5.09	4.54	3.47	5/15/2000
Vanguard Emerging Markets Stock Index Fnd (VEMIX)	0.10	5.31	11.92	-3.69	3.79	3.04	6.55	6/22/2000
Vanguard Int'l Dividend Appreciation Index Fnd Admiral (VIAAX)	0.16	0.13	10.10	1.41	6.74	_	8.22	3/2/2016
Fund Purchase Transaction Fee: 0.25								
Fund Redemption Fee: 0.25								
Vanguard Int'l High Dividend Yield Index Fnd Admiral (VIHAX)	0.22	0.88	13.72	5.22	6.82	_	7.75	3/2/2016
Fund Purchase Transaction Fee: 0.25								
Fund Redemption Fee: 0.25								
Vanguard Total World Stock Index Fnd (VTWIX)	0.08	2.38	18.50	5.02	10.66	8.49	10.58	10/9/2008
Vanguard FTSE All-World ex-US Index Fnd (VFWSX)	0.08	0.78	11.30	0.64	5.90	4.16	3.30	4/30/2007
Vanguard FTSE All-World ex-US Small-Cap Index Fnd (VFSNX)	0.12	1.04	9.39	-2.17	4.96	3.35	8.36	4/2/2009
Vanguard Global ex-U.S. Real Estate Index Fnd (VGRNX)	0.11	-4.12	4.77	-8.19	-3.72	0.33	2.28	4/19/2011
Fund Purchase Transaction Fee: 0.25								
Fund Redemption Fee: 0.25								
Vanguard Total International Stock Index Fnd (VTSNX)	0.09	0.80	11.00	0.37	5.78	4.05	5.09	11/29/2010
Vanguard Inst'l Total International Stock Market Index Trust	_	0.84	11.11	0.46	5.90	_	7.51	6/24/2016
Vanguard Inst'l Total International Stock Market Index Trust II	0.03	0.84	11.13	0.46	_	_	6.51	8/18/2020
Vanguard Developed Markets Index Trust	_	-0.64	10.80	_	_	_	2.10	12/7/2021

Source: Vanguard. All data as of June 30, 2024, unless otherwisenoted.

Performance data for periods of less than one year does not reflect the deduction of purchase and redemption fees that may apply. All other performance data are adjusted for purchase and redemption fees, where applicable. If these fees were included, the performance would be lower. The performance data shown represent past performance, which is not a guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the performance data cited. For performance data current to the most recent month-end, visit our website at institutional.vanguard.com/performance.





Year to date—Institutional share class unless otherwise noted	Benchmark return	Expense ratio impact ¹	Fair-value impact	Securities lending impact	Other ²	Fund return	Excess return ³
All-cap							
Vanguard High Dividend Yield ETF (VYM)	7.83	-0.032	0.000	0.002	0.017	7.816	-0.013
Vanguard Institutional Total Stock Market Index Fund (VITNX)	13.58	-0.017	0.000	0.004	0.021	13.590	0.009
Vanguard Russell 3000 Index Fund (VRTTX)	13.56	-0.045	0.000	0.004	0.000	13.516	-0.042
Vanguard Total Stock Market Index Fund (VITSX)	13.58	-0.017	0.000	0.006	0.008	13.578	-0.003
Large-cap							
Vanguard 500 Index Fund Admiral™ (VFIAX)	15.29	-0.023	0.000	0.000	-0.003	15.266	-0.026
Vanguard Dividend Appreciation Index Fund Admiral (VDADX)	8.18	-0.043	0.000	0.001	0.018	8.156	-0.025
Vanguard FTSE Social Index Fund (VFTNX)	15.61	-0.069	0.000	0.001	0.006	15.549	-0.061
Vanguard Growth Index Fund (VIGIX)	20.54	-0.024	0.000	0.000	-0.002	20.514	-0.026
Vanguard Institutional Index Fund (VINIX)	15.29	-0.020	0.000	0.000	-0.001	15.271	-0.021
Vanguard Large-Cap Index Fund (VLISX)	15.14	-0.023	0.000	0.001	0.011	15.132	-0.011
Vanguard Mega Cap Growth Index Fund (VMGAX)	21.33	-0.036	0.000	0.000	-0.003	21.294	-0.039
Vanguard Mega Cap Index Fund (VMCTX)	17.31	-0.035	0.000	0.000	0.000	17.276	-0.035
Vanguard Mega Cap Value Index Fund (VMVLX)	9.72	-0.033	0.000	0.000	0.015	9.701	-0.018
Vanguard Russell 1000 Growth Index Fund (VRGWX)	20.70	-0.042	0.000	0.000	-0.011	20.647	-0.053
Vanguard Russell 1000 Index Fund (VRNIX)	14.24	-0.040	0.000	0.002	0.004	14.201	-0.034
Vanguard Russell 1000 Value Index Fund (VRVIX)	6.62	-0.037	0.000	0.004	0.016	6.607	-0.018
Vanguard S&P 500 Growth ETF (VOOG)	23.56	-0.061	0.000	-0.000	-0.010	23.491	-0.072
Vanguard S&P 500 Value Index Fund (VSPVX)	5.79	-0.042	0.000	0.001	0.012	5.760	-0.029
Vanguard Tax-Managed Capital Appreciation Fund (VTCIX	() 14.24	-0.034	0.000	0.000	-0.125	14.076	-0.159
Vanguard Value Index Fund (VIVIX)	8.73	-0.022	0.000	0.002	0.023	8.733	0.004
Mid-cap							
Vanguard Extended Market Index Fund (VIEIX)	3.28	-0.026	0.000	0.045	0.011	3.312	0.030
Vanguard Mid-Cap Growth Index Fund Admiral (VMGMX)	4.87	-0.036	0.000	0.001	0.006	4.843	-0.029
Vanguard Mid-Cap Index Fund (VMCIX)	4.90	-0.021	0.000	0.006	0.012	4.896	-0.003
Vanguard Mid-Cap Value Index Fund Admiral (VMVAX)	4.92	-0.037	0.000	0.012	0.036	4.932	0.012
Vanguard S&P Mid-Cap 400 Growth Index Fund (VMFGX)	11.70	-0.044	0.000	0.000	0.010	11.662	-0.034
Vanguard S&P Mid-Cap 400 Index Fund (VSPMX)	6.17	-0.042	0.000	0.002	0.011	6.137	-0.029
Vanguard S&P Mid-Cap 400 Value Index Fund (VMFVX)	0.45	-0.040	0.000	0.005	0.023	0.438	-0.012
Small-cap							
Vanguard Russell 2000 Growth Index Fund (VRTGX)	4.44	-0.042	0.000	0.077	0.013	4.490	0.048
Vanguard Russell 2000 Index Fund (VRTIX)	1.73	-0.040	0.000	0.059	0.005	1.757	0.024
Vanguard Russell 2000 Value Index Fund (VRTVX)	-0.85	-0.039	0.000	0.033	0.012	-0.844	0.005
Vanguard S&P Small-Cap 600 Growth ETF (VIOG)	3.30	-0.077	0.000	0.001	-0.012	3.215	-0.088
Vanguard S&P Small-Cap 600 Index Fund (VSMSX)	-0.72	-0.039	0.000	0.016	0.003	-0.745	-0.021
Vanguard S&P Small-Cap 600 Value Index Fund (VSMVX)	-4.72	-0.038	0.000	0.029	0.014	-4.714	0.005
Vanguard Small-Cap Growth Index Fund (VSGIX)	3.79	-0.031	0.000	0.041	-0.007	3.791	0.003
Vanguard Small-Cap Index Fund (VSCIX)	3.05	-0.021	0.000	0.023	0.006	3.061	0.008
Vanguard Small-Cap Value Index Fund (VSIIX)	2.48	-0.031	0.000	0.008	0.007	2.469	-0.015
Vanguard Tax-Managed Small-Cap Fund (VTSIX)	-0.72	-0.030	0.000	0.000	-0.020	-0.774	-0.049

Excess return equals fund return minus benchmark return.



¹ Expense ratio impact (ER) attribution includes the impact of compounding on fund returns over time. Consequently, a fund's ER (above) may appear larger than the published ER.

² Other category may include fund performance impacts from the following sources: portfolio manager investment decisions, trading impact, tax withholding differences with the benchmark (funds with international investments only, India capital gains tax (not part of the benchmark methodology), and security pricing differences with the benchmark.



Year to date—Institutional share class unless otherwise noted	Benchmark return	Expense ratio impact ¹	Fair-value impact	Securities lending impact	Other ²	Fund return	Excess return ³
Sector							
Vanguard Communication Services Index Fund Admiral (VTCAX)	17.92	-0.059	0.000	0.037	0.021	17.919	-0.001
Vanguard Consumer Discretionary Index Fund Admiral (VCDAX)	3.05	-0.051	0.000	0.017	0.001	3.022	-0.033
Vanguard Consumer Staples Index Fund Admiral (VCSAX)	7.64	-0.054	0.000	0.029	0.009	7.625	-0.016
Vanguard Energy Index Fund Admiral (VENAX)	10.57	-0.055	0.000	0.001	-0.000	10.512	-0.055
Vanguard Financials Index Fund Admiral (VFAIX)	9.24	-0.054	0.000	0.003	0.007	9.197	-0.044
Vanguard Health Care Index Fund Admiral (VHCIX)	6.97	-0.053	0.000	0.005	-0.002	6.916	-0.050
Vanguard Industrials Index Fund Admiral (VINAX)	7.42	-0.053	0.000	0.006	-0.005	7.363	-0.053
Vanguard Information Technology Index Fund Admiral (VITAX)	19.58	-0.059	0.000	0.005	0.002	19.524	-0.052
Vanguard Materials Index Fund Admiral (VMIAX)	2.24	-0.051	0.000	0.006	0.008	2.202	-0.037
Vanguard Real Estate Index Fund (VGSNX)	-3.01	-0.053	0.000	0.003	0.010	-3.048	-0.040
Vanguard Utilities Index Fund Admiral (VUIAX)	9.60	-0.054	0.000	0.001	-0.016	9.529	-0.070
International							
Vanguard Developed Markets Index Fund (VTMNX)	4.32	-0.031	0.010	0.013	0.040	4.355	0.032
Vanguard Emerging Markets Stock Index Fund (VEMIX)	7.80	-0.053	-0.098	0.024	-0.359	7.313	-0.486
Vanguard European Stock Index Fund (VESIX)	5.59	-0.047	-0.271	0.006	0.056	5.338	-0.256
Vanguard FTSE All-World ex-US Index Fund (VFWSX)	5.52	-0.042	0.017	0.010	0.038	5.543	0.023
Vanguard FTSE All-World ex-US Small-Cap Index Fund (VFSNX)	2.68	-0.061	0.061	0.070	-0.216	2.530	-0.147
Vanguard Global ex-U.S. Real Estate Index Fund (VGRNX)	-4.99	-0.052	0.102	0.039	0.093	-4.810	0.181
Vanguard International Dividend Appreciation Index Fund Admiral (VIAAX)	3.26	-0.082	0.008	0.004	0.142	3.327	0.071
Vanguard International High Dividend Yield Index Fund Admiral (VIHAX)	5.35	-0.115	0.091	0.012	0.030	5.366	0.018
Vanguard Pacific Stock Index Fund (VPKIX)	2.99	-0.041	0.378	0.014	-0.026	3.317	0.325
Vanguard Total International Stock Index Fund (VTSNX)	5.24	-0.047	0.012	0.016	-0.076	5.145	-0.096
Vanguard Total World Stock Index Fund (VTWIX)	10.43	-0.044	0.009	0.008	-0.031	10.376	-0.058



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² Other category may include fund performance impacts from the following sources: portfolio manager investment decisions, trading impact, tax withholding differences with the benchmark (funds with international investments only, India capital gains tax (not part of the benchmark methodology), and security pricing differences with the benchmark.

 $^{^{\}rm 3}~$ Excess return equals fund return minus benchmark return.



One year—Institutional share class unless otherwise noted	Benchmark return	Expense ratio impact ¹	Fair-value impact	Securities lending impact	Other ²	Fund return	Excess return ³
All-cap							
Vanguard High Dividend Yield ETF (VYM)	15.42	-0.069	0.000	0.005	0.014	15.373	-0.050
Vanguard Institutional Total Stock Market Index Fund (VITNX)	23.17	-0.037	0.000	0.013	0.069	23.212	0.045
Vanguard Russell 3000 Index Fund (VRTTX)	23.13	-0.099	0.000	0.011	0.047	23.085	-0.040
Vanguard Total Stock Market Index Fund (VITSX)	23.17	-0.037	0.000	0.016	0.051	23.197	0.029
Large-cap							
Vanguard 500 Index Fund Admiral™ (VFIAX)	24.56	-0.050	0.000	0.000	-0.001	24.506	-0.050
Vanguard Dividend Appreciation Index Fund Admiral (VDADX)	14.64	-0.092	0.000	0.001	0.026	14.579	-0.065
Vanguard FTSE Social Index Fund (VFTNX)	26.30	-0.152	0.000	0.002	0.060	26.210	-0.089
Vanguard Growth Index Fund (VIGIX)	32.84	-0.053	0.000	0.000	-0.001	32.792	-0.053
Vanguard Institutional Index Fund (VINIX)	24.56	-0.044	0.000	0.000	0.001	24.514	-0.042
Vanguard Large-Cap Index Fund (VLISX)	24.94	-0.050	0.000	0.002	0.061	24.957	0.014
Vanguard Mega Cap Growth Index Fund (VMGAX)	34.15	-0.081	0.000	0.000	-0.002	34.071	-0.082
Vanguard Mega Cap Index Fund (VMCTX)	27.74	-0.077	0.000	0.000	0.056	27.716	-0.021
Vanguard Mega Cap Value Index Fund (VMVLX)	17.06	-0.070	0.000	0.000	0.132	17.118	0.062
Vanguard Russell 1000 Growth Index Fund (VRGWX)	33.48	-0.094	0.000	0.001	0.057	33.446	-0.036
Vanguard Russell 1000 Index Fund (VRNIX)	23.88	-0.087	0.000	0.006	0.050	23.847	-0.031
Vanguard Russell 1000 Value Index Fund (VRVIX)	13.06	-0.079	0.000	0.012	0.026	13.016	-0.041
Vanguard S&P 500 Growth ETF (VOOG)	32.52	-0.133	0.000	-0.000	0.002	32.387	-0.131
Vanguard S&P 500 Value Index Fund (VSPVX)	15.29	-0.092	0.000	0.001	0.012	15.215	-0.080
Vanguard Tax-Managed Capital Appreciation Fund (VTC)	X) 23.88	-0.074	0.000	0.000	-0.121	23.682	-0.195
Vanguard Value Index Fund (VIVIX)	15.77	-0.046	0.000	0.004	0.130	15.855	0.088
Mid-cap							
Vanguard Extended Market Index Fund (VIEIX)	14.66	-0.058	0.000	0.117	0.252	14.969	0.312
Vanguard Mid-Cap Growth Index Fund Admiral (VMGMX)	12.38	-0.079	0.000	0.003	0.020	12.329	-0.056
Vanguard Mid-Cap Index Fund (VMCIX)	11.82	-0.045	0.000	0.012	0.033	11.817	0.000
Vanguard Mid-Cap Value Index Fund Admiral (VMVAX)	11.33	-0.078	0.000	0.023	0.053	11.331	-0.002
Vanguard S&P Mid-Cap 400 Growth Index Fund (VMFGX)	18.82	-0.095	0.000	0.000	0.012	18.742	-0.082
Vanguard S&P Mid-Cap 400 Index Fund (VSPMX)	13.57	-0.091	0.000	0.006	0.013	13.501	-0.072
Vanguard S&P Mid-Cap 400 Value Index Fund (VMFVX)	8.17	-0.087	0.000	0.012	0.027	8.122	-0.047
Small-cap							
Vanguard Russell 2000 Growth Index Fund (VRTGX)	9.14	-0.088	0.000	0.170	0.029	9.248	0.111
Vanguard Russell 2000 Index Fund (VRTIX)	10.06	-0.088	0.000	0.132	0.015	10.115	0.059
Vanguard Russell 2000 Value Index Fund (VRTVX)	10.90	-0.089	0.000	0.094	0.020	10.921	0.025
Vanguard S&P Small-Cap 600 Growth ETF (VIOG)	13.03	-0.170	0.000	0.003	-0.003	12.864	-0.169
Vanguard S&P Small-Cap 600 Index Fund (VSMSX)	8.66	-0.087	0.000	0.025	0.000	8.595	-0.062
Vanguard S&P Small-Cap 600 Value Index Fund (VSMVX)	4.20	-0.083	0.000	0.045	0.007	4.167	-0.032
Vanguard Small-Cap Growth Index Fund (VSGIX)	9.62	-0.066	0.000	0.100	0.022	9.680	0.056
Vanguard Small-Cap Index Fund (VSCIX)	11.45	-0.045	0.000	0.079	0.016	11.500	0.050
Vanguard Small-Cap Value Index Fund (VSIIX)	12.85	-0.068	0.000	0.063	0.017	12.863	0.012
Vanguard Tax-Managed Small-Cap Fund (VTSIX)	8.66	-0.065	0.000	0.000	0.001	8.593	-0.064

Excess return equals fund return minus benchmark return.



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² Other category may include fund performance impacts from the following sources: portfolio manager investment decisions, trading impact, tax withholding differences with the benchmark (funds with international investments only, India capital gains tax (not part of the benchmark methodology), and security pricing differences with the benchmark.



One year—Institutional share class unless otherwise noted	Benchmark return	Expense ratio impact ¹	Fair-value impact	Securities lending impact	Other ²	Fund return	Excess return ³
Sector							
Vanguard Communication Services Index Fund Admiral (VTCAX)	31.20	-0.132	0.000	0.198	0.082	31.351	0.149
Vanguard Consumer Discretionary Index Fund Admiral (VCDAX)	11.38	-0.112	0.000	0.033	0.005	11.303	-0.074
Vanguard Consumer Staples Index Fund Admiral (VCSAX)	7.34	-0.107	0.000	0.050	-0.006	7.274	-0.063
Vanguard Energy Index Fund Admiral (VENAX)	16.79	-0.117	0.000	0.001	-0.002	16.674	-0.117
Vanguard Financials Index Fund Admiral (VFAIX)	25.53	-0.126	0.000	0.013	0.019	25.433	-0.094
Vanguard Health Care Index Fund Admiral (VHCIX)	10.31	-0.110	0.000	0.010	0.011	10.219	-0.090
Vanguard Industrials Index Fund Admiral (VINAX)	16.19	-0.116	0.000	0.016	0.006	16.093	-0.095
Vanguard Information Technology Index Fund Admiral (VITAX)	31.21	-0.132	0.000	0.013	0.162	31.254	0.043
Vanguard Materials Index Fund Admiral (VMIAX)	7.78	-0.108	0.000	0.009	0.003	7.688	-0.096
Vanguard Real Estate Index Fund (VGSNX)	4.88	-0.116	0.000	0.005	0.029	4.795	-0.081
Vanguard Utilities Index Fund Admiral (VUIAX)	7.71	-0.108	0.000	0.002	-0.012	7.592	-0.118
International							
Vanguard Developed Markets Index Fund (VTMNX)	11.02	-0.066	-0.425	0.031	0.036	10.600	-0.424
Vanguard Emerging Markets Stock Index Fund (VEMIX)	13.38	-0.112	-0.521	0.055	-0.886	11.921	-1.464
Vanguard European Stock Index Fund (VESIX)	11.93	-0.101	-0.381	0.012	0.064	11.522	-0.405
Vanguard FTSE All-World ex-US Index Fund (VFWSX)	11.85	-0.089	-0.429	0.024	-0.051	11.303	-0.545
Vanguard FTSE All-World ex-US Small-Cap Index Fund (VFSNX)	10.14	-0.132	-0.373	0.171	-0.417	9.386	-0.749
Vanguard Global ex-U.S. Real Estate Index Fund (VGRNX)	5.01	-0.115	-0.354	0.109	0.115	4.769	-0.245
Vanguard International Dividend Appreciation Index Fund Admiral (VIAAX)	10.46	-0.177	-0.375	0.008	0.186	10.103	-0.357
Vanguard International High Dividend Yield Index Fund Admiral (VIHAX)	14.31	-0.251	-0.319	0.022	-0.045	13.718	-0.592
Vanguard Pacific Stock Index Fund (VPKIX)	10.19	-0.088	-0.532	0.046	-0.027	9.591	-0.602
Vanguard Total International Stock Index Fund (VTSNX)	11.68	-0.100	-0.433	0.036	-0.187	10.997	-0.684
Vanguard Total World Stock Index Fund (VTWIX)	18.81	-0.095	-0.181	0.021	-0.054	18.502	-0.309



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 $^{^{\}rm 3}~$ Excess return equals fund return minus benchmark return.



Three years—Institutional share class unless otherwise noted	Benchmark return	Expense ratio impact ¹	Fair-value impact	Securities lending impact	Other ²	Fund return	Excess return ³
All-cap		-					
Vanguard High Dividend Yield ETF (VYM)	7.59	-0.065	0.000	0.004	-0.003	7.528	-0.064
Vanguard Institutional Total Stock Market Index Fund (VITNX)	7.91	-0.032	0.000	0.015	0.042	7.938	0.025
Vanguard Russell 3000 Index Fund (VRTTX)	8.05	-0.086	0.000	0.012	0.015	7.993	-0.060
Vanguard Total Stock Market Index Fund (VITSX)	7.91	-0.032	0.000	0.018	0.015	7.914	0.001
Large-cap							
Vanguard 500 Index Fund Admiral™ (VFIAX)	10.01	-0.044	0.000	0.000	-0.004	9.966	-0.048
Vanguard Dividend Appreciation Index Fund Admiral (VDADX)	7.80	-0.086	0.000	0.000	0.007	7.723	-0.079
Vanguard FTSE Social Index Fund (VFTNX)	8.95	-0.131	0.000	0.003	0.016	8.836	-0.112
Vanguard Growth Index Fund (VIGIX)	9.95	-0.044	0.000	0.002	0.006	9.911	-0.036
Vanguard Institutional Index Fund (VINIX)	10.01	-0.039	0.000	0.000	-0.000	9.974	-0.039
Vanguard Large-Cap Index Fund (VLISX)	9.18	-0.044	0.000	0.003	0.023	9.163	-0.017
Vanguard Mega Cap Growth Index Fund (VMGAX)	11.40	-0.067	0.000	0.001	0.007	11.340	-0.060
Vanguard Mega Cap Index Fund (VMCTX)	10.65	-0.066	0.000	0.001	0.021	10.606	-0.044
Vanguard Mega Cap Value Index Fund (VMVLX)	8.71	-0.065	0.000	0.001	0.046	8.692	-0.018
Vanguard Russell 1000 Growth Index Fund (VRGWX)	11.28	-0.078	0.000	0.003	0.019	11.227	-0.056
Vanguard Russell 1000 Index Fund (VRNIX)	8.74	-0.076	0.000	0.007	0.017	8.691	-0.052
Vanguard Russell 1000 Value Index Fund (VRVIX)	5.52	-0.074	0.000	0.011	0.003	5.464	-0.060
Vanguard S&P 500 Growth ETF (VOOG)	9.42	-0.109	0.000	0.000	-0.005	9.302	-0.114
Vanguard S&P 500 Value Index Fund (VSPVX)	9.59	-0.088	0.000	0.000	0.002	9.505	-0.085
Vanguard Tax-Managed Capital Appreciation Fund (VTCI	X) 8.74	-0.065	0.000	0.000	0.187	8.865	0.122
Vanguard Value Index Fund (VIVIX)	8.00	-0.043	0.000	0.005	0.049	8.008	0.010
Mid-cap							
Vanguard Extended Market Index Fund (VIEIX)	-2.64	-0.049	0.000	0.126	0.101	-2.457	0.178
Vanguard Mid-Cap Growth Index Fund Admiral (VMGMX)	-0.25	-0.070	0.000	0.009	0.025	-0.286	-0.036
Vanguard Mid-Cap Index Fund (VMCIX)	2.23	-0.041	0.000	0.015	0.025	2.226	-0.001
Vanguard Mid-Cap Value Index Fund Admiral (VMVAX)	4.68	-0.073	0.000	0.022	0.012	4.639	-0.039
Vanguard S&P Mid-Cap 400 Growth Index Fund (VMFGX)	4.04	-0.083	0.000	0.022	0.005	3.984	-0.056
Vanguard S&P Mid-Cap 400 Index Fund (VSPMX)	4.47	-0.084	0.000	0.017	0.000	4.404	-0.066
Vanguard S&P Mid-Cap 400 Value Index Fund (VMFVX)	4.65	-0.084	0.000	0.014	0.019	4.600	-0.051
Small-cap							
Vanguard Russell 2000 Growth Index Fund (VRTGX)	-4.86	-0.076	0.000	0.149	0.011	-4.776	0.084
Vanguard Russell 2000 Index Fund (VRTIX)	-2.58	-0.078	0.000	0.121	0.010	-2.528	0.053
Vanguard Russell 2000 Value Index Fund (VRTVX)	-0.53	-0.080	0.000	0.076	0.016	-0.517	0.012
Vanguard S&P Small-Cap 600 Growth ETF (VIOG)	0.17	-0.150	0.000	0.006	-0.017	0.004	-0.162
Vanguard S&P Small-Cap 600 Index Fund (VSMSX)	-0.26	-0.080	0.000	0.015	-0.010	-0.339	-0.075
Vanguard S&P Small-Cap 600 Value Index Fund (VSMVX)	-0.79	-0.079	0.000	0.022	-0.003	-0.852	-0.060
Vanguard Small-Cap Growth Index Fund (VSGIX)	-4.26	-0.058	0.000	0.103	0.013	-4.203	0.059
Vanguard Small-Cap Index Fund (VSCIX)	0.46	-0.040	0.000	0.080	0.018	0.514	0.057
Vanguard Small-Cap Value Index Fund (VSIIX)	3.90	-0.062	0.000	0.061	0.008	3.905	0.006
Vanguard Tax-Managed Small-Cap Fund (VTSIX)	-0.26	-0.060	0.000	0.000	0.090	-0.233	0.030

Excess return equals fund return minus benchmark return.



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² Other category may include fund performance impacts from the following sources: portfolio manager investment decisions, trading impact, tax withholding differences with the benchmark (funds with international investments only, India capital gains tax (not part of the benchmark methodology), and security pricing differences with the benchmark.



Three years—Institutional share class unless otherwise noted	Benchmark return	Expense ratio impact ¹	Fair-value impact	Securities lending impact	Other ²	Fund return	Excess return ³
Sector							
Vanguard Communication Services Index Fund Admiral (VTCAX)	-0.38	-0.100	0.000	0.127	0.019	-0.338	0.046
Vanguard Consumer Discretionary Index Fund Admiral (VCDAX)	0.89	-0.101	0.000	0.026	0.007	0.818	-0.067
Vanguard Consumer Staples Index Fund Admiral (VCSAX)	6.34	-0.106	0.000	0.045	0.002	6.278	-0.059
Vanguard Energy Index Fund Admiral (VENAX)	23.69	-0.124	0.000	0.002	-0.002	23.563	-0.123
Vanguard Financials Index Fund Admiral (VFAIX)	5.72	-0.106	0.000	0.018	0.016	5.651	-0.072
Vanguard Health Care Index Fund Admiral (VHCIX)	4.02	-0.104	0.000	0.008	0.012	3.935	-0.084
Vanguard Industrials Index Fund Admiral (VINAX)	7.80	-0.108	0.000	0.012	0.005	7.706	-0.091
Vanguard Information Technology Index Fund Admiral (VITAX)	14.03	-0.114	0.000	0.009	0.032	13.960	-0.074
Vanguard Materials Index Fund Admiral (VMIAX)	4.14	-0.104	0.000	0.007	0.004	4.049	-0.094
Vanguard Real Estate Index Fund (VGSNX)	-2.44	-0.102	0.000	0.003	0.007	-2.531	-0.092
Vanguard Utilities Index Fund Admiral (VUIAX)	5.56	-0.106	0.000	0.001	-0.005	5.454	-0.109
International							
Vanguard Developed Markets Index Fund (VTMNX)	1.77	-0.056	-0.032	0.030	0.103	1.816	0.045
Vanguard Emerging Markets Stock Index Fund (VEMIX)	-3.23	-0.096	-0.074	0.047	-0.333	-3.685	-0.457
Vanguard European Stock Index Fund (VESIX)	3.23	-0.099	-0.110	0.016	0.191	3.233	-0.002
Vanguard FTSE All-World ex-US Index Fund (VFWSX)	0.75	-0.084	-0.043	0.023	-0.005	0.644	-0.109
Vanguard FTSE All-World ex-US Small-Cap Index Fund (VFSNX)	-2.04	-0.113	-0.030	0.138	-0.120	-2.166	-0.125
Vanguard Global ex-U.S. Real Estate Index Fund (VGRNX)	-8.58	-0.101	0.017	0.084	0.384	-8.194	0.384
Vanguard International Dividend Appreciation Index Fund Admiral (VIAAX)	1.47	-0.162	-0.019	0.006	0.117	1.414	-0.058
Vanguard International High Dividend Yield Index Fund Admiral (VIHAX)	5.48	-0.232	-0.030	0.021	-0.025	5.216	-0.266
Vanguard Pacific Stock Index Fund (VPKIX)	-0.54	-0.080	0.071	0.035	-0.020	-0.538	0.006
Vanguard Total International Stock Index Fund (VTSNX)	0.48	-0.086	-0.046	0.033	-0.012	0.366	-0.111
Vanguard Total World Stock Index Fund (VTWIX)	5.12	-0.084	-0.018	0.021	-0.019	5.021	-0.100



¹ Expense ratio impact (ER) attribution includes the impact of compounding on fund returns over time. Consequently, a fund's ER (above) may appear larger than the published ER.

² Other category may include fund performance impacts from the following sources: portfolio manager investment decisions, trading impact, tax withholding differences with the benchmark (funds with international investments only, India capital gains tax (not part of the benchmark methodology), and security pricing differences with the benchmark.

 $^{^{\}rm 3}~$ Excess return equals fund return minus benchmark return.



Securities lending

IN THIS SECTION:

Vanguard securities-lending program overview

Vanguard securities lending by fund

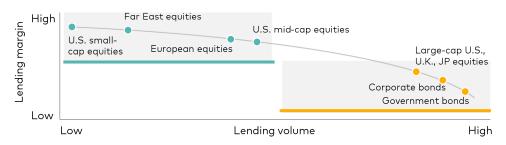


Vanguard securities-lending program overview

Lending securities from equity index funds provides an opportunity to increase portfolio returns. There are two broad strategic approaches to securities lending: value and volume. Vanguard is a value lender, meaning we seek to optimize client outcomes by maximizing revenue generation while minimizing the percentage of the portfolio on loan to manage risk. Additionally, Vanguard's at-cost lending program returns more than 95% of securities-lending revenues directly back to the funds, a competitive and shareholder-friendly return rate.

Figure 33.1 Securities-lending program overview

Vanguard's lending program focuses on lending "specials"—securities with a high lending margin—to maximize the return generated by each loan.



Asset-weighted cost 3.1% (2023)Revenue returned to funds 96.9% (2023)Up to 33% Range of acceptable loans by regulations of gross assets - Best practice range 0% to 7% by Vanguard of gross assets Weighted-average 0.33% percentage of portfolios of gross assets on loan

Sources: Brown Brothers Harriman (BBH) and Vanguard.

Vanguard Fixed Income Group's credit research team manages a list of approved borrowers and assigns each a credit limit. Vanguard considers the financial viability of all approved counterparties on an ongoing basis and monitors individual counterparty exposure daily. If necessary, the amounts on loan are adjusted based on changes in perceived creditworthiness of each borrowing institution. Collateral is reinvested in a conservative, internally managed, money market fund called the Market Liquidity Fund.

Total average market value on loan for 2Q2024

Goldman Sachs & Co. LLC	\$3,788,381,066
JP Morgan Securities LLC	\$2,874,022,270
Morgan Stanley & Co. LLC	\$2,075,358,304
BofA Securities Inc	\$2,011,993,886
Barclays Capital Inc	\$1,945,635,519



Average maturity	14
Expense ratio	0.5 bps
SEC yield	5.38%
Number of holdings	171

Securities lending from fixed income funds

Vanguard lends securities only from its equity funds. We lent securities from our fixed income funds until 2009, when market conditions made the risk-reward unattractive. We continually monitor market conditions and other factors, periodically reevaluating our securities-lending program's effectiveness in meeting its goal of giving our clients the best chance for investment success.

Numbers may not total 100% due to rounding. Source: Vanguard. All data as of June 30, 2024, unless otherwise noted.



Figure 34.1 2023/2024 securities-lending data by fund

Vanguard Institutional Tatal Stock Market Index Fund 2023 \$73,266,654 0.26% \$5,963,411 0.021% Vanguard Russell 3000 Index Fund 2023 \$17,069,796 0.02% \$1394,387 0.004% Vanguard Russell 3000 Index Fund 2024 YTD \$1,395,804 0.04% \$117,738 0.004% Vanguard High Dividend Yield Index Fund 2023 \$36,869,2279 0.06% \$31,373,505 0.005% Vanguard Total Stock Market Index Fund 2024 YTD \$3,152,417,859 0.21% \$87,640,354 0.006% Lorge-cop Vanguard 500 Index Fund 2023 \$78,261,600 0.01% \$515,674 0.006% Vanguard 500 Index Fund 2023 \$78,261,600 0.01% \$515,674 0.000% Vanguard Employee Benefit Index Fund 2023 \$78,261,600 0.01% \$515,674 0.000% Vanguard Employee Benefit Index Fund 2023 \$11,644,550 0.02% \$614,351 0.001% Vanguard FTSE Social Index Fund 2023 \$1,694,509 0.02% \$614,351 0.001% Vanguard Growth Index Fu		Year	Average market value of open loans	Average % on loan	Total period earned income	Income as % of average fund assets
Vongourd Institutional Total Stock Market Index Fund 2024 YTD \$27,210,725 0.09% \$1,394,397 0.004% Vanguard Russell 3000 Index Fund 2023 \$7,069,796 0.24% \$582,676 0.020% Vanguard High Dividend Yield Index Fund 2023 \$32,692,279 0.06% \$3,293,054 0.005% Vanguard Total Stock Market Index Fund 2023 \$3,692,279 0.06% \$3,293,054 0.005% Large-cap 2023 \$3,46,922,779 0.07% \$30,8412,738 0.02% Vanguard Total Stock Market Index Fund 2023 \$3,152,247,859 0.21% \$87,60,354 0.006% Large-cap Vanguard 500 Index Fund 2023 \$78,261,604 0.01% \$515,587 0.006% Vanguard Employee Benefit Index Fund 2023 \$564,721 0.00% \$46,07 0.000% Vanguard Employee Benefit Index Fund 2023 \$11,844,156 0.06% \$258,659 0.01% Vanguard FTSE Social Index Fund 2023 \$13,152,898 0.03% \$44,047 0.000% Vanguard Institutional Index Fund	All-cap					
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Vanguard Russell 3000 Index Fund 2024 YTID \$1,385,804 0,04% \$11,778 0,06% Vanguard High Dividend Yield Index Fund 2023 \$3,6822,279 0,06% \$1,516,473 0,002% Vanguard Total Stock Market Index Fund 2023 \$3,448,565,391 0,27% \$308,412,738 0,026% Large-tap 2024 YTD \$3,152,417,859 0,21% \$308,412,738 0,026% Large-tap 2023 \$7,816,604 0,01% \$515,874 0,000% Vanguard 500 Index Fund 2023 \$664,721 0,00% \$46,607 0,000% Vanguard Dividend Appreciation Index Fund 2023 \$11,844,156 0,06% \$255,659 0,01% Vanguard Employee Benefit Index Fund 2023 \$11,844,156 0,06% \$256,659 0,001% Vanguard FTSE Social Index Fund 2023 \$8,110,979 0,06% \$700,422 0,005% Vanguard Growth Index Fund 2024 YTD \$3,768,873 0,00% \$215,511 0,001% Vanguard Mega Cap Index Fund 2023 \$91,279,16 0,06%		2024 YTD	\$27,210,725	0.09%	\$1,394,387	0.004%
Vanguard High Dividend Yield Index Fund 2023 \$3.38,22.79 0.06% \$1.17,28 0.005%	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2023	\$7,069,796	0.24%	\$582,676	0.020%
Vanguard Fligh Dividend Yield Index Fund 2024 YTID \$3,539,48,55 0,0% \$1,516,493 0,02% Vanguard Total Stock Market Index Fund 2023 \$3,484,565,391 0,27% \$308,412,738 0,02% Lorge-cap Vanguard 500 Index Fund 2023 \$78,261,604 0,01% \$515,874 0,000% Vanguard Dividend Appreciation Index Fund 2023 \$664,271 0,00% \$46,67 0,000% Vanguard Employee Benefit Index Fund 2023 \$11,844,156 0,06% \$258,659 0,01% Vanguard FTSE Social Index Fund 2023 \$11,844,156 0,06% \$258,659 0,00% Vanguard FTSE Social Index Fund 2023 \$11,097 0,06% \$258,659 0,00% Vanguard Growth Index Fund 2023 \$91,1097 0,06% \$258,659 0,00% Vanguard Growth Index Fund 2023 \$91,1097 0,06% \$233,3552 0,00% Vanguard Institutional Index Fund 2023 \$91,929,916 0,06% \$233,3552 0,00% Vanguard Mega Cap Index Fund 2023	vangoara Rossell 3000 index Fond	2024 YTD	\$1,385,804	0.04%	\$117,738	0.004%
Vanguard Fotal Stock Market Index Fund 2023 3,448,565,391 0,27% \$30,841,738 0,002%	Vanguard High Dividend Viold Index Fund		\$36,822,279	0.06%	\$3,293,054	0.005%
Vanguard Total Stock Market Index Fund 2024 YTD \$3,152,417,859 0.21% \$87,640,354 0.006% Large-cap Lorge-cap 2023 \$78,241,604 0.01% \$515,874 0.000% Vanguard 500 Index Fund 2023 \$664,721 0.00% \$2,572,112 0.000% Vanguard Dividend Appreciation Index Fund 2023 \$11,849,559 0.00% \$44,041 0.000% Vanguard Employee Benefit Index Fund 2023 \$11,844,156 0.06% \$238,659 0.001% Vanguard FTSE Social Index Fund 2023 \$8,110,997 0.06% \$233,552 0.005% Vanguard Growth Index Fund 2023 \$8,110,997 0.06% \$233,352 0.001% Vanguard Institutional Index Fund 2023 \$91,929,916 0.06% \$23,335,52 0.001% Vanguard Large-Cap Index Fund 2024 YTD \$13,157,598 0.01% \$376,279 0.00% Vanguard Mega Cap Growth Index Fund 2023 \$22,184,834 0.01% \$548,658 0.00% Vanguard Mega Cap Index Fund 2024 YTD \$5,	Valigodia High Dividena Hela Ilidex Fond	2024 YTD	\$25,934,855	0.04%	\$1,516,493	0.002%
Large-cap 2024 F10 \$,15,2417,859 0.7% \$97,840,354 0.00% Large-cap 2023 \$78,261,604 0.01% \$515,874 0.000% Vanguard 500 Index Fund 2023 \$78,261,604 0.01% \$551,874 0.000% Vanguard Dividend Appreciation Index Fund 2023 \$664,721 0.00% \$46,07 0.000% Vanguard Employee Benefit Index Fund 2024 YTD \$114,694,509 0.02% \$614,351 0.001% Vanguard FTSE Social Index Fund 2024 YTD \$7,587,863 0.03% \$42,047 0.000% Vanguard FTSE Social Index Fund 2023 \$81,10,997 0.06% \$700,422 0.005% Vanguard Growth Index Fund 2023 \$91,929,916 0.06% \$2333,592 0.001% Vanguard Institutional Index Fund 2023 \$11,815,7598 0.01% \$376,279 0.000% Vanguard Mega Cap Growth Index Fund 2023 \$22,155,441 0.06 \$11119,570 0.000% Vanguard Mega Cap Index Fund 2024 YTD \$5,660,097 0.01% \$562	Vanguard Total Stock Market Index Fund		\$3,448,565,391	0.27%	\$308,412,738	0.024%
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Vanguard Dividend Appreciation Index Fund 2024 YTD \$14,694,509 0.02% \$614,351 0.001% Vanguard Employee Benefit Index Fund 2023 \$11,844,156 0.06% \$258,659 0.001% Vanguard Employee Benefit Index Fund 2024 YTD \$7,587,863 0.00% \$42,047 0.005% Vanguard FTSE Social Index Fund 2023 \$8,110,997 0.06% \$70,0422 0.005% Vanguard Growth Index Fund 2023 \$91,929,916 0.06% \$2,333,592 0.001% Vanguard Institutional Index Fund 2023 \$21,684,834 0.01% \$376,279 0.000% Vanguard Large-Cap Index Fund 2023 \$22,155,441 0.06% \$11,115,70 0.003% Vanguard Mega Cap Growth Index Fund 2023 \$22,155,441 0.06% \$11,260 0.000% Vanguard Mega Cap Index Fund 2023 \$16,383 0.00% \$1,260 0.000% Vanguard Mega Cap Value Index Fund 2024 YTD \$0 0.00% \$27 0.000% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 <td>vangoara 500 maex r ona</td> <td></td> <td></td> <td>0.01%</td> <td>\$2,572,112</td> <td>0.000%</td>	vangoara 500 maex r ona			0.01%	\$2,572,112	0.000%
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Vanguard Employee Benefit Index Fund 2024 YTD \$7,587,863 0.03% \$42,047 0.00% Vanguard FTSE Social Index Fund 2023 \$8,110,997 0.06% \$700,422 0.005% Vanguard Growth Index Fund 2024 YTD \$3,3968,713 0.02% \$21,5511 0.001% Vanguard Institutional Index Fund 2023 \$91,929,916 0.06% \$2,333,592 0.001% Vanguard Institutional Index Fund 2023 \$21,684,834 0.01% \$171,120 0.000% Vanguard Large-Cap Index Fund 2023 \$22,115,441 0.06% \$1,119,570 0.003% Vanguard Mega Cap Growth Index Fund 2024 YTD \$5,460,097 0.01% \$562,751 0.001% Vanguard Mega Cap Index Fund 2024 YTD \$0 0.00% \$1,260 0.00% Vanguard Mega Cap Index Fund 2024 YTD \$0 0.00% \$272 0.000% Vanguard Mega Cap Value Index Fund 2023 \$16,383 0.00% \$272 0.000% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% </td <td></td> <td>2024 YTD</td> <td>\$14,694,509</td> <td>0.02%</td> <td>\$614,351</td> <td>0.001%</td>		2024 YTD	\$14,694,509	0.02%	\$614,351	0.001%
Vanguard FTSE Social Index Fund 2023 \$8,110,977 0.06% \$700,422 0.005% Vanguard FTSE Social Index Fund 2024 YTD \$3,968,713 0.02% \$215,511 0.001% Vanguard Growth Index Fund 2024 YTD \$13,157,598 0.01% \$376,279 0.005% Vanguard Institutional Index Fund 2024 YTD \$15,159,371 0.01% \$171,120 0.000% Vanguard Large-Cap Index Fund 2024 YTD \$15,159,371 0.01% \$548,658 0.000% Vanguard Large-Cap Index Fund 2024 YTD \$15,159,371 0.01% \$546,658 0.000% Vanguard Mega Cap Growth Index Fund 2024 YTD \$5,460,097 0.01% \$562,751 0.001% Vanguard Mega Cap Index Fund 2023 \$96,451 0.00% \$11,19,570 0.003% Vanguard Mega Cap Index Fund 2023 \$16,383 0.00% \$1,260 0.000% Vanguard Mega Cap Index Fund 2024 YTD \$0 0.00% \$0 0.000% Vanguard Mega Cap Index Fund 2024 YTD \$0 0.00% \$274 0.000% Vanguard Mega Cap Index Fund 2023 \$16,383 0.00% \$274 0.000% Vanguard Mega Cap Value Index Fund 2023 \$16,383 0.00% \$274 0.000% Vanguard Russell 1000 Growth Index Fund 2024 YTD \$0 0.00% \$43 0.000% Vanguard Russell 1000 Growth Index Fund 2024 YTD \$0 0.00% \$454,36 0.003% Vanguard Russell 1000 Growth Index Fund 2024 YTD \$1,927,929 0.01% \$31,340 0.000% Vanguard Russell 1000 Index Fund 2024 YTD \$1,927,929 0.01% \$31,340 0.000% Vanguard Russell 1000 Value Index Fund 2024 YTD \$1,727,259 0.01% \$31,340 0.000% Vanguard Russell 1000 Index Fund 2024 YTD \$1,752,65 0.02% \$8,016 0.000% Vanguard Russell 1000 Value Index Fund 2024 YTD \$1,763,378 0.03% \$168,581 0.003% Vanguard Russell 1000 Value Index Fund 2024 YTD \$1,763,378 0.03% \$18,581 0.002% Vanguard Russell 1000 Value Index Fund 2024 YTD \$2,74,659 0.00% \$3,399 0.01% Vanguard Russell 1000 Value Index Fund 2024 YTD \$2,74,659 0.00% \$3,399 0.00% Vanguard Russell 1000 Value Index Fund 2024 YTD \$8,370,689 0.21% \$1,733,580 0.021% Vanguard Russell 1000 Value Index Fund 2024 YTD \$8,370,689 0.21% \$1,733,580 0.021% Vanguard Russell 1000 Value Index Fund 2024 YTD \$8,370,689 0.21% \$1,733,580 0.021% Vanguard Russell 1000 Value Index Fund 2024 YTD \$8,390,574 0.00% \$3,399 0.000% Vanguard Russel	Vanguard Employee Repetit Index Fund		\$11,844,156	0.06%	\$258,659	0.001%
Vanguard FISE Social Index Fund 2024 YTD \$3,968,713 0.02% \$215,511 0.001% Vanguard Growth Index Fund 2023 \$91,929,916 0.06% \$2,333,592 0.001% Vanguard Institutional Index Fund 2023 \$21,684,834 0.01% \$171,120 0.000% Vanguard Large-Cap Index Fund 2023 \$22,115,441 0.06% \$1,119,570 0.03% Vanguard Mega Cap Growth Index Fund 2024 YTD \$55,460,097 0.01% \$562,751 0.001% Vanguard Mega Cap Index Fund 2023 \$96,451 0.00% \$1,260 0.000% Vanguard Mega Cap Index Fund 2023 \$16,383 0.00% \$274 0.000% Vanguard Mega Cap Index Fund 2023 \$16,383 0.00% \$274 0.000% Vanguard Russell 1000 Growth Index Fund 2024 YTD \$0 0.00% \$474 0.000% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% \$454,236 0.03% Vanguard Russell 1000 Index Fund 2023 \$7,488,639 0.13% <			\$7,587,863	0.03%	\$42,047	0.000%
Vanguard Growth Index Fund 2024 YTD \$3,98,713 0.02% \$215,511 0.001% Vanguard Growth Index Fund 2023 \$91,929,716 0.06% \$2,333,592 0.001% Vanguard Institutional Index Fund 2023 \$21,684,834 0.01% \$171,120 0.000% Vanguard Large-Cap Index Fund 2023 \$22,115,441 0.06% \$1,119,570 0.003% Vanguard Mega Cap Growth Index Fund 2024 YTD \$5,460,097 0.01% \$562,751 0.001% Vanguard Mega Cap Index Fund 2024 YTD \$0 0.00% \$1,260 0.000% Vanguard Mega Cap Index Fund 2023 \$16,383 0.00% \$27 0.000% Vanguard Mega Cap Value Index Fund 2023 \$0 0.00% \$27 0.00% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% \$454,236 0.00% Vanguard Russell 1000 Growth Index Fund 2023 \$1,927,292 0.01% \$31,340 0.00% Vanguard Russell 1000 Index Fund 2024 YTD \$1,375,265 0.02%	Vanguard ETSE Social Index Fund		\$8,110,997	0.06%	\$700,422	0.005%
Vanguard Growth Index Fund 2024 YTD \$13,157,598 0.01% \$376,279 0.000% Vanguard Institutional Index Fund 2023 \$21,684,684 0.01% \$517,1120 0.000% Vanguard Large-Cap Index Fund 2023 \$22,115,441 0.06% \$1,119,570 0.003% Vanguard Mega Cap Growth Index Fund 2024 YTD \$5,460,097 0.01% \$562,751 0.001% Vanguard Mega Cap Growth Index Fund 2023 \$96,451 0.00% \$1,260 0.000% Vanguard Mega Cap Index Fund 2023 \$16,383 0.00% \$27 0.000% Vanguard Mega Cap Value Index Fund 2023 \$9,189,082 0.00% \$27 0.000% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% \$454,236 0.03% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% \$454,236 0.03% Vanguard Russell 1000 Growth Index Fund 2023 \$3,79,85,73 0.08% \$13,40 0.000% Vanguard Russell 1000 Value Index Fund 2024 YTD \$1,375,265<	valigodia i 13E 30cidi ilidex i olid		\$3,968,713	0.02%	\$215,511	0.001%
Vanguard Institutional Index Fund 2023 \$21,884,834 \$2,00% \$171,120 \$0.000% \$171,120 \$0.000% \$171,120 \$0.000% \$171,120 \$0.000% \$171,120 \$0.000% \$171,120 \$0.000% \$171,120 \$0.000% \$171,120 \$0.000% \$171,120 \$0.000% \$172,600 \$171,120 \$0.000% \$171,120 \$0.000% \$171,120 \$0.000% \$172,600 \$0.000% \$1.0000% \$1.0000% \$1.000% \$1.000% \$1.000% \$1.000% \$1.0000% \$1.0000% \$1.0000% \$1.0000% \$1.0000%	Vanguard Growth Index Fund		\$91,929,916	0.06%	\$2,333,592	0.001%
Vanguard Institutional Index Fund 2024 YTD \$15,159,371 0.01% \$548,658 0.000% Vanguard Large-Cap Index Fund 2023 \$22,115,441 0.06% \$1,119,570 0.003% Vanguard Mega Cap Growth Index Fund 2023 \$\$6,451 0.00% \$1,260 0.000% Vanguard Mega Cap Index Fund 2023 \$\$16,383 0.00% \$274 0.000% Vanguard Mega Cap Index Fund 2024 YTD \$0 0.00% \$274 0.000% Vanguard Mega Cap Value Index Fund 2023 \$16,383 0.00% \$274 0.000% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% \$454,236 0.003% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% \$454,236 0.003% Vanguard Russell 1000 Index Fund 2023 \$3,798,573 0.08% \$134,326 0.003% Vanguard Russell 1000 Value Index Fund 2023 \$1,748,633 0.01% \$685,222 0.012% Vanguard Russell 1000 Value Index Fund 2023 \$17,033,378 <td< td=""><td>valigodia Growth ilidex i olid</td><td>2024 YTD</td><td>\$13,157,598</td><td>0.01%</td><td>\$376,279</td><td>0.000%</td></td<>	valigodia Growth ilidex i olid	2024 YTD	\$13,157,598	0.01%	\$376,279	0.000%
Vanguard Large-Cap Index Fund 2024 YTD \$15,159,371 0.00% \$434,5658 0.000% Vanguard Large-Cap Index Fund 2023 \$22,115,441 0.06% \$1,1119,570 0.003% Vanguard Mega Cap Growth Index Fund 2023 \$96,451 0.00% \$1,260 0.000% Vanguard Mega Cap Index Fund 2024 YTD \$0 0.00% \$1,260 0.000% Vanguard Mega Cap Index Fund 2023 \$16,383 0.00% \$274 0.000% Vanguard Mega Cap Index Fund 2023 \$16,383 0.00% \$274 0.000% Vanguard Mega Cap Value Index Fund 2023 \$0 0.00% \$79 0.000% Vanguard Russell 1000 Growth Index Fund 2024 YTD \$0 0.00% \$43,3000% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% \$454,236 0.003% Vanguard Russell 1000 Growth Index Trust 2024 YTD \$1,375,265 0.02% \$8,016 0.000% Vanguard Russell 1000 Index Fund 2024 YTD \$1,375,265 0.02% \$8,016 0.000% Vanguard Russell 1000 Value Index Fund 2024 YTD \$1,763,378 0.03% \$108,581 0.002% Vanguard Russell 1000 Value Index Fund 2024 YTD \$8,274,659 0.09% \$345,779 0.004% Vanguard Russell 1000 Value Index Fund 2024 YTD \$8,370,689 0.21% \$5,859,93 0.021% Vanguard Russell 1000 Value Index Fund 2024 YTD \$8,390,574 0.29% \$9,568 0.003% Vanguard S&P 500 Growth Index Fund 2024 YTD \$0.00,00% \$33,399 0.000% Vanguard S&P 500 Value Index Fund 2024 YTD \$0.00,00% \$33,399 0.000% Vanguard S&P 500 Value Index Fund 2024 YTD \$0.00,00% \$33,399 0.000% Vanguard S&P 500 Value Index Fund 2024 YTD \$0.00,00% \$33,399 0.000% Vanguard S&P 500 Value Index Fund 2024 YTD \$0.00,00% \$33,399 0.000% Vanguard S&P 500 Value Index Fund 2024 YTD \$0.00,00% \$33,399 0.000% Vanguard Tax-Managed Capital Appreciation Fund 2024 YTD \$0.00,00% \$0.00% \$0.000% \$0.000% Vanguard Tax-Managed Capital Appreciation Fund 2024 YTD \$0.000% \$0.0000% \$0.000% \$0.0000% \$0.0000	Vanguard Institutional Index Fund		\$21,684,834	0.01%	\$171,120	0.000%
Vanguard Large-Cap Index Fund 2024 YTD \$5,460,097 0.01% \$562,751 0.001% Vanguard Mega Cap Growth Index Fund 2023 \$96,451 0.00% \$1,260 0.000% Vanguard Mega Cap Index Fund 2023 \$16,383 0.00% \$274 0.000% Vanguard Mega Cap Index Fund 2023 \$16,383 0.00% \$27 0.000% Vanguard Mega Cap Value Index Fund 2023 \$0 0.00% \$79 0.000% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% \$454,236 0.003% Vanguard Russell 1000 Growth Index Trust 2023 \$9,189,082 0.06% \$454,236 0.003% Vanguard Russell 1000 Growth Index Trust 2023 \$3,798,573 0.08% \$134,326 0.003% Vanguard Russell 1000 Index Fund 2023 \$7,488,639 0.13% \$685,292 0.012% Vanguard Russell 1000 Value Index Fund 2023 \$17,030,689 0.21% \$1,733,580 0.02% Vanguard Russell 1000 Value Index Fund 2023 \$12,38,557 0			\$15,159,371	0.01%	\$548,658	0.000%
Vanguard Mega Cap Growth Index Fund 2023 \$96,451 0.00% \$1,260 0.000% Vanguard Mega Cap Growth Index Fund 2024 YTD \$0 0.00% \$0 0.000% Vanguard Mega Cap Index Fund 2023 \$16,383 0.00% \$274 0.000% Vanguard Mega Cap Value Index Fund 2023 \$0 0.00% \$27 0.000% Vanguard Russell 1000 Growth Index Fund 2023 \$0 0.00% \$43 0.000% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% \$454,236 0.003% Vanguard Russell 1000 Growth Index Trust 2023 \$3,798,573 0.08% \$454,236 0.003% Vanguard Russell 1000 Index Fund 2023 \$3,798,573 0.08% \$134,326 0.003% Vanguard Russell 1000 Value Index Fund 2023 \$7,488,639 0.13% \$685,292 0.012% Vanguard Russell 1000 Value Index Fund 2023 \$17,030,689 0.21% \$1,733,580 0.021% Vanguard S&P 500 Growth Index Fund 2024 YTD \$8,274,659 0.09	Vanguard Largo-Cap Indox Fund	2023	\$22,115,441	0.06%	\$1,119,570	0.003%
Vanguard Mega Cap Growth Index Fund 2024 YTD \$0 0.00% \$0 0.000% Vanguard Mega Cap Index Fund 2023 \$16,383 0.00% \$274 0.000% Vanguard Mega Cap Value Index Fund 2023 \$0 0.00% \$27 0.000% Vanguard Russell 1000 Growth Index Fund 2024 YTD \$0 0.00% \$43 0.000% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% \$454,236 0.003% Vanguard Russell 1000 Growth Index Trust 2023 \$3,798,573 0.08% \$134,326 0.003% Vanguard Russell 1000 Index Fund 2023 \$7,488,639 0.13% \$685,292 0.012% Vanguard Russell 1000 Value Index Fund 2024 YTD \$1,763,378 0.03% \$108,581 0.002% Vanguard Russell 1000 Value Index Fund 2023 \$17,030,689 0.21% \$1,733,580 0.021% Vanguard S&P 500 Growth Index Fund 2024 YTD \$8,374,559 0.09% \$345,779 0.004% Vanguard S&P 500 Value Index Fund 2024 YTD \$8,390,574		2024 YTD	\$5,460,097	0.01%	\$562,751	0.001%
Vanguard Mega Cap Index Fund 2023 \$16,383 0.00% \$274 0.000% Vanguard Mega Cap Index Fund 2024 YTD \$0 0.00% \$272 0.000% Vanguard Mega Cap Value Index Fund 2023 \$0 0.00% \$79 0.000% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% \$454,236 0.003% Vanguard Russell 1000 Growth Index Fund 2023 \$3,798,573 0.08% \$134,326 0.003% Vanguard Russell 1000 Index Fund 2024 YTD \$1,375,265 0.02% \$8,016 0.000% Vanguard Russell 1000 Index Fund 2023 \$7,488,639 0.13% \$685,292 0.012% Vanguard Russell 1000 Value Index Fund 2024 YTD \$1,763,378 0.03% \$108,581 0.002% Vanguard Russell 1000 Value Index Fund 2023 \$17,030,689 0.21% \$1,733,580 0.021% Vanguard S&P 500 Growth Index Fund 2024 YTD \$8,274,659 0.09% \$345,779 0.004% Vanguard S&P 500 Value Index Fund 2023 \$1,213,664	Vanguard Maga Can Growth Indox Fund		\$96,451	0.00%	\$1,260	0.000%
Vanguard Mega Cap Index Fund 2024 YTD \$0 0.00% \$27 0.000% Vanguard Mega Cap Value Index Fund 2023 \$0 0.00% \$79 0.000% Vanguard Russell 1000 Growth Index Fund 2024 YTD \$0 0.00% \$43 0.000% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% \$454,236 0.003% Vanguard Russell 1000 Growth Index Trust 2023 \$3,798,573 0.08% \$134,326 0.003% Vanguard Russell 1000 Index Fund 2023 \$7,488,639 0.13% \$685,292 0.012% Vanguard Russell 1000 Value Index Fund 2023 \$17,030,689 0.21% \$1,733,580 0.02% Vanguard Russell 1000 Value Index Fund 2023 \$17,030,689 0.21% \$1,733,580 0.021% Vanguard Russell 1000 Value Index Fund 2023 \$12,338,557 0.45% \$585,993 0.021% Vanguard S&P 500 Growth Index Fund 2023 \$144,383 0.00% \$33,399 0.00% Vanguard S&P 500 Value Index Fund 2023 \$1,213,664		2024 YTD	\$0	0.00%	\$0	0.000%
Vanguard Russell 1000 Growth Index Fund 2023 \$0.00% \$27 0.000% \$0.00% \$0	Vanguard Maga Can Indox Fund		\$16,383	0.00%	\$274	0.000%
Vanguard Mega Cap Value Index Fund 2024 YTD \$0 0.00% \$43 0.000% Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% \$454,236 0.003% Vanguard Russell 1000 Growth Index Trust 2023 \$1,927,929 0.01% \$31,340 0.000% Vanguard Russell 1000 Growth Index Trust 2023 \$3,798,573 0.08% \$134,326 0.003% Vanguard Russell 1000 Index Fund 2023 \$7,488,639 0.13% \$685,292 0.012% Vanguard Russell 1000 Value Index Fund 2024 YTD \$1,763,378 0.03% \$108,581 0.002% Vanguard Russell 1000 Value Index Fund 2023 \$17,030,689 0.21% \$1,733,580 0.021% Vanguard Swestell 1000 Value Index Trust 2023 \$12,338,557 0.45% \$585,993 0.021% Vanguard S&P 500 Growth Index Fund 2023 \$144,383 0.00% \$99,568 0.003% Vanguard S&P 500 Value Index Fund 2023 \$1,213,664 0.03% \$3,399 0.000% Vanguard Tax-Managed Capital Appreciation Fund <t< td=""><td>vangoara Mega Cap index Fond</td><td>2024 YTD</td><td>\$0</td><td>0.00%</td><td>\$27</td><td>0.000%</td></t<>	vangoara Mega Cap index Fond	2024 YTD	\$0	0.00%	\$27	0.000%
Vanguard Russell 1000 Growth Index Fund 2023 \$9,189,082 0.06% \$454,236 0.003% 2024 YTD \$1,927,929 0.01% \$31,340 0.000% Vanguard Russell 1000 Growth Index Trust 2023 \$3,798,573 0.08% \$134,326 0.003% 2024 YTD \$1,375,265 0.02% \$8,016 0.000% 2024 YTD \$1,375,265 0.02% \$8,016 0.000% 2024 YTD \$1,763,378 0.13% \$685,292 0.012% 2024 YTD \$1,763,378 0.03% \$108,581 0.002% 2024 YTD \$1,763,378 0.03% \$108,581 0.002% 2024 YTD \$1,763,378 0.03% \$108,581 0.002% 2024 YTD \$8,274,659 0.09% \$345,779 0.004% 2024 YTD \$8,274,659 0.09% \$345,779 0.004% 2024 YTD \$8,390,574 0.29% \$99,568 0.03% 2024 YTD \$8,390,574 0.29% \$99,568 0.003% 2024 YTD \$8,390,574 0.29% \$99,568 0.003% 2024 YTD \$0.000% \$1,733,590 0.000% 2024 YTD \$0.000% \$0.000% \$0.000%	Vanguard Maga Can Value Index Fund	2023	\$0	0.00%	\$79	0.000%
Vanguard Russell 1000 Growth Index Fund 2024 YTD \$1,927,929 0.01% \$31,340 0.000% Vanguard Russell 1000 Growth Index Trust 2023 \$3,798,573 0.08% \$134,326 0.003% Vanguard Russell 1000 Index Fund 2024 YTD \$1,375,265 0.02% \$8,016 0.000% Vanguard Russell 1000 Index Fund 2023 \$7,488,639 0.13% \$685,292 0.012% Vanguard Russell 1000 Value Index Fund 2023 \$17,030,378 0.03% \$108,581 0.002% Vanguard Russell 1000 Value Index Fund 2023 \$17,030,689 0.21% \$1,733,580 0.021% Vanguard Russell 1000 Value Index Trust 2023 \$12,338,557 0.45% \$585,993 0.021% Vanguard S&P 500 Growth Index Fund 2024 YTD \$8,390,574 0.29% \$99,568 0.003% Vanguard S&P 500 Value Index Fund 2024 YTD \$0 0.00% \$3,399 0.000% Vanguard Tax-Managed Capital Appreciation Fund 2023 \$1,213,664 0.03% \$25,054 0.000% Vanguard Value Index Fund 202	valigodra Mega Cap valoe Ilidex Folia	2024 YTD		0.00%	\$43	0.000%
Vanguard Russell 1000 Growth Index Trust 2023 \$3,798,573 0.08% \$134,326 0.000% 2024 YTD \$1,375,265 0.02% \$8,016 0.000% 2024 YTD \$1,375,265 0.02% \$8,016 0.000% 2024 YTD \$1,375,265 0.02% \$8,016 0.000% 2024 YTD \$1,763,378 0.03% \$108,581 0.002% 2024 YTD \$1,763,378 0.03% \$108,581 0.002% 2024 YTD \$8,274,659 0.09% \$1,733,580 0.021% 2024 YTD \$8,274,659 0.09% \$345,779 0.004% 2024 YTD \$8,274,659 0.09% \$345,779 0.004% 2024 YTD \$8,390,574 0.29% \$99,568 0.03% 2024 YTD \$8,390,574 0.29% \$99,568 0.003% 2024 YTD \$0,000% \$3,399 0.000% 2024 YTD \$0,000% \$1,213,664 0.03% \$3,399 0.000% 2024 YTD \$0,000% \$0,000% \$3,399 0.000% 2024 YTD \$424,258 0.01% \$25,054 0.001% 2024 YTD \$424,258 0.01% \$25,054 0.001% 2024 YTD \$0,000% \$0,000% \$0,000%	Vanguard Puscell 1000 Growth Index Fund		\$9,189,082	0.06%	\$454,236	0.003%
Vanguard Russell 1000 Growth Index Trust 2024 YTD \$1,375,265 0.02% \$8,016 0.000% Vanguard Russell 1000 Index Fund 2023 \$7,488,639 0.13% \$685,292 0.012% Vanguard Russell 1000 Value Index Fund 2023 \$17,63,378 0.03% \$108,581 0.002% Vanguard Russell 1000 Value Index Fund 2023 \$17,030,689 0.21% \$1,733,580 0.021% Vanguard Russell 1000 Value Index Trust 2023 \$12,338,557 0.45% \$585,993 0.021% Vanguard S&P 500 Growth Index Fund 2023 \$144,383 0.00% \$99,568 0.003% Vanguard S&P 500 Value Index Fund 2023 \$1,213,664 0.03% \$3,399 0.000% Vanguard Tax-Managed Capital Appreciation Fund 2023 \$1,213,664 0.03% \$3,256 0.000% Vanguard Value Index Fund 2023 \$0 0.00% \$0 0.00% Vanguard Value Index Fund 2023 \$90,514,975 0.06% \$6,668,070 0.000%	valigodia Rossell 1000 Growth Index Foria		\$1,927,929	0.01%	\$31,340	0.000%
2024 YTD \$1,3/5,265 0.02% \$8,016 0.000% Vanguard Russell 1000 Index Fund 2023 \$7,488,639 0.13% \$685,292 0.012% Vanguard Russell 1000 Value Index Fund 2024 YTD \$1,763,378 0.03% \$108,581 0.002% Vanguard Russell 1000 Value Index Trust 2023 \$17,030,689 0.21% \$1,733,580 0.021% Vanguard Russell 1000 Value Index Trust 2023 \$12,338,557 0.45% \$585,993 0.021% Vanguard S&P 500 Growth Index Fund 2023 \$144,383 0.00% \$3,399 0.000% Vanguard S&P 500 Value Index Fund 2023 \$1,213,664 0.03% \$3,256 0.000% Vanguard Tax-Managed Capital Appreciation Fund 2023 \$0 0.00% \$0 0.00% Vanguard Value Index Fund 2023 \$90,514,975 0.06% \$6,668,070 0.005%	Vanguard Puscell 1000 Growth Index Trust	2023	\$3,798,573	0.08%	\$134,326	0.003%
Vanguard Russell 1000 Index Fund 2024 YTD \$1,763,378 0.03% \$108,581 0.002% Vanguard Russell 1000 Value Index Fund 2023 \$17,030,689 0.21% \$1,733,580 0.021% Vanguard Russell 1000 Value Index Trust 2024 YTD \$8,274,659 0.09% \$345,779 0.004% Vanguard S&P 500 Growth Index Fund 2023 \$12,338,557 0.45% \$585,993 0.021% Vanguard S&P 500 Growth Index Fund 2023 \$144,383 0.00% \$99,568 0.003% Vanguard S&P 500 Value Index Fund 2024 YTD \$0 0.00% -\$31 0.000% Vanguard Tax-Managed Capital Appreciation Fund 2023 \$1,213,664 0.03% \$25,054 0.001% Vanguard Value Index Fund 2023 \$0 0.00% \$0 0.00% Vanguard Value Index Fund 2023 \$90,514,975 0.06% \$6,668,070 0.000%	vanguara Russell 1000 Growth Index Trust	2024 YTD	\$1,375,265	0.02%	\$8,016	0.000%
Vanguard Russell 1000 Value Index Fund 2023 \$17,030,689 0.21% \$1,733,580 0.021% 2024 YTD \$8,274,659 0.09% \$345,779 0.004% Vanguard Russell 1000 Value Index Trust 2023 \$12,338,557 0.45% \$585,993 0.021% 2024 YTD \$8,390,574 0.29% \$99,568 0.003% Vanguard S&P 500 Growth Index Fund 2023 \$144,383 0.00% \$3,399 0.000% 2024 YTD \$0 0.00% -\$31 0.000% Vanguard S&P 500 Value Index Fund 2023 \$1,213,664 0.03% \$3,256 0.000% Vanguard Tax-Managed Capital Appreciation Fund 2023 \$0.00% \$0.00% \$0.000% Vanguard Value Index Fund 2023 \$90,514,975 0.06% \$6,668,070 0.005%	Vanguard Puscell 1000 Index Fund		\$7,488,639	0.13%	\$685,292	0.012%
Vanguard Russell 1000 Value Index Fund 2024 YTD \$8,274,659 0.09% \$345,779 0.004% Vanguard Russell 1000 Value Index Trust 2023 \$12,338,557 0.45% \$585,993 0.021% 2024 YTD \$8,390,574 0.29% \$99,568 0.003% Vanguard S&P 500 Growth Index Fund 2023 \$144,383 0.00% \$3,399 0.000% Vanguard S&P 500 Value Index Fund 2023 \$1,213,664 0.03% \$3,256 0.000% Vanguard Tax-Managed Capital Appreciation Fund 2023 \$0 0.00% \$0 0.00% Vanguard Value Index Fund 2023 \$90,514,975 0.06% \$6,668,070 0.005%	vanguara kusseli 1000 index Fund	2024 YTD	\$1,763,378	0.03%	\$108,581	0.002%
Vanguard Russell 1000 Value Index Trust \[\begin{array}{c ccccccccccccccccccccccccccccccccccc	Vanguard Pussell 1000 Value Index Fund			0.21%		0.021%
Vanguard Russell 1000 Value Index Trust 2024 YTD \$8,390,574 0.29% \$99,568 0.003% Vanguard S&P 500 Growth Index Fund 2023 \$144,383 0.00% \$3,399 0.000% Vanguard S&P 500 Value Index Fund 2024 YTD \$0 0.00% -\$31 0.000% Vanguard Tax-Managed Capital Appreciation Fund 2024 YTD \$424,258 0.01% \$25,054 0.001% Vanguard Value Index Fund 2023 \$0 0.00% \$0 0.000% Vanguard Value Index Fund 2023 \$90,514,975 0.06% \$6,668,070 0.005%		2024 YTD	\$8,274,659	0.09%	\$345,779	0.004%
Vanguard S&P 500 Growth Index Fund \[\begin{array}{c ccccccccccccccccccccccccccccccccccc	Vanguard Puscell 1000 Value Index Trust		\$12,338,557	0.45%		0.021%
Vanguard S&P 500 Growth Index Fund 2024 YTD \$0 0.00% -\$31 0.000% Vanguard S&P 500 Value Index Fund 2023 \$1,213,664 0.03% \$3,256 0.000% Vanguard Tax-Managed Capital Appreciation Fund 2023 \$0 0.01% \$25,054 0.001% Vanguard Value Index Fund 2023 \$0 0.00% \$0 0.000% Vanguard Value Index Fund 2023 \$90,514,975 0.06% \$6,668,070 0.005%	variguala kusseli 1000 value index Frust	2024 YTD	\$8,390,574	0.29%	\$99,568	0.003%
Vanguard Value Index Fund 2024 YTD \$0 0.00% -\$31 0.000%	Vanguard S&P 500 Growth Index Fund	2023	\$144,383	0.00%	\$3,399	0.000%
Vanguard S&P 500 Value Index Fund 2024 YTD \$424,258 0.01% \$25,054 0.001% Vanguard Tax-Managed Capital Appreciation Fund 2023 \$0 0.00% \$0 0.000% Vanguard Value Index Fund 2023 \$90,514,975 0.06% \$6,668,070 0.005%				0.00%	-\$31	0.000%
Vanguard Value Index Fund 2024 YTD \$424,258 0.01% \$25,054 0.001% 2023 \$0 0.00% \$0 0.000% 2024 YTD \$0 0.00% \$0 0.000% 2024 YTD \$0 0.00% \$0 0.000% 2023 \$90,514,975 0.06% \$6,668,070 0.005%	Vanguard S&P 500 Value Index Fund		\$1,213,664	0.03%	\$3,256	0.000%
Vanguard Value Index Fund 2024 YTD \$0 0.00% \$0 0.000% Vanguard Value Index Fund 2023 \$90,514,975 0.06% \$6,668,070 0.005%			\$424,258	0.01%	\$25,054	0.001%
Vanguard Value Index Fund 2023 \$90,514,975 0.06% \$6,668,070 0.005%	Vanguard Tax-Managed Capital Appreciation Fund		\$0	0.00%	\$0	0.000%
Vanguard Value Index Fund			\$0	0.00%	\$0	0.000%
2024 YTD \$50,729,946 0.03% \$3,390,132 0.002%	Vanauard Value Index Fund		\$90,514,975	0.06%	\$6,668,070	0.005%
	vanguara Value Index Fund	2024 YTD	\$50,729,946	0.03%	\$3,390,132	0.002%

Cash is currently the only acceptable form of collateral. All U.S. and international equities are marked to market daily with a minimum collateralization required equal to 102% and 105%, respectively, of the market value of the security.





Figure 35.1 2023/2024 securities-lending data by fund

	Year	Average market value of open loans	Average % on loan	Total period earned income	Income as % of average fund assets
Mid-cap					
Vanguard Extended Market Index Fund	2023	\$1,456,594,393	1.72%	\$141,973,884	0.168%
	2024 YTD	\$1,479,132,726	1.51%	\$43,877,246	0.045%
Vanguard Mid-Cap Growth Index Fund	2023	\$76,923,670	0.38%	\$2,060,779	0.010%
vanguara Mia-Cap Growth Index Fund	2024 YTD	\$11,153,977	0.05%	\$291,761	0.001%
Vanguard Mid-Cap Index Fund	2023	\$466,749,867	0.33%	\$23,785,257	0.017%
Variguara Mia-Cap index Fund	2024 YTD	\$182,123,694	0.11%	\$9,175,984	0.006%
Vanguard Mid-Cap Value Index Fund	2023	\$82,274,038	0.30%	\$6,749,974	0.024%
variguara Mia-Cap value maex Funa	2024 YTD	\$51,622,583	0.18%	\$3,322,263	0.012%
Vanguard S&P Mid-Cap 400 Growth Index Fund	2023	\$824,850	0.09%	\$22,124	0.002%
Valigodia 3&F Mia-Cap 400 Grower index i oria	2024 YTD	\$439,580	0.04%	\$3,078	0.000%
Vanguard S&P Mid-Cap 400 Index Fund	2023	\$10,597,155	0.36%	\$464,894	0.016%
	2024 YTD	\$6,363,033	0.19%	\$79,596	0.002%
Vanguard S&P Mid-Cap 400 Value Index Fund	2023	\$6,110,978	0.69%	\$320,209	0.036%
	2024 YTD	\$3,301,918	0.34%	\$45,980	0.005%
Small-cap					
)/	2023	\$25,497,343	2.66%	\$1,898,671	0.198%
Vanguard Russell 2000 Growth Index Fund	2024 YTD	\$11,466,332	1.03%	\$856,399	0.077%
	2023	\$72,178,361	3.95%	\$3,256,894	0.178%
Vanguard Russell 2000 Growth Index Trust	2024 YTD	\$90,934,995	4.52%	\$1,566,912	0.078%
Van average Divocal I 2000 Index Frond	2023	\$155,554,612	2.40%	\$10,006,211	0.154%
Vanguard Russell 2000 Index Fund	2024 YTD	\$144,043,070	1.60%	\$5,336,730	0.059%
Vanguard Russell 2000 Value Index Fund	2023	\$20,719,232	2.14%	\$1,163,797	0.120%
vanguara Russell 2000 value Index Fund	2024 YTD	\$6,657,622	0.72%	\$302,321	0.033%
Vanguard Russell 2000 Value Index Trust	2023	\$17,252,621	3.07%	\$620,375	0.110%
variguara Russell 2000 value maex must	2024 YTD	\$15,815,408	2.78%	\$199,157	0.035%
Vanguard S&P Small-Cap 600 Index Fund	2023	\$21,602,762	0.53%	\$669,764	0.016%
Valigual a 3&F Siliali-Cap 000 iliaex Fulia	2024 YTD	\$31,587,354	0.70%	\$712,679	0.016%
Vanguard S&P Small-Cap 600 Growth Index Fund	2023	\$1,615,519	0.30%	\$46,630	0.009%
vanguara 5&P Smail-Cap 600 Growth Index Fund	2024 YTD	\$380,512	0.05%	\$8,790	0.001%
Vanguard S&P Small-Cap 600 Value Index Fund	2023	\$9,063,206	0.69%	\$325,205	0.025%
Valiguata 3&F Sitiali-Cap 000 Value ilidex Fulid	2024 YTD	\$14,194,836	1.01%	\$407,293	0.029%
Vanguard Small-Cap Growth Index Fund	2023	\$604,882,033	2.10%	\$45,193,301	0.157%
valiguara Small-Cap Growth Index Fund	2024 YTD	\$600,069,869	1.81%	\$13,457,185	0.041%
Vanguard Small-Cap Index Fund	2023	\$1,598,785,782	1.35%	\$165,861,150	0.140%
	2024 YTD	\$1,646,349,813	1.21%	\$31,034,122	0.023%
Vanguard Small-Cap Value Index Fund	2023	\$363,672,060	0.77%	\$60,848,100	0.129%
	2024 YTD	\$336,578,214	0.64%	\$4,330,922	0.008%
Vanguard Tax-Managed Small-Cap Fund	2023	\$0	0.00%	\$0	0.000%
	2024 YTD	\$0	0.00%	\$0	0.000%

Cash is currently the only acceptable form of collateral. All U.S. and international equities are marked to market daily with a minimum collateralization required equal to 102% and 105% , respectively, of the market value of the security.





Figure 36.1 2023/2024 securities-lending data by fund

	Year	Average market value of open loans	Average % on loan	Total period earned income	Income as % of average fund assets
Sector					
Vanguard Consumer Discretionary Index Fund	2023	\$25,743,279	0.52%	\$2,012,783	0.040%
	2024 YTD	\$17,588,182	0.29%	\$1,015,204	0.017%
Vanguard Consumer Staples Index Fund	2023	\$12,571,974	0.16%	\$5,098,140	0.064%
	2024 YTD	\$6,526,361	0.08%	\$2,252,896	0.029%
Vanguard Energy Index Fund	2023	\$24,239,156	0.24%	\$328,480	0.003%
	2024 YTD	\$9,267,915	0.09%	\$72,575	0.001%
	2023	\$26,960,922	0.30%	\$1,914,573	0.021%
Vanguard Financials Index Fund	2024 YTD	\$9,813,198	0.10%	\$317,874	0.003%
	2023	\$37,328,070	0.19%	\$1,484,950	0.008%
Vanguard Health Care Index Fund	2024 YTD	\$32,688,930	0.16%	\$1,090,377	0.005%
	2023	\$13,663,734	0.32%	\$754,699	0.018%
Vanguard Industrials Index Fund	2024 YTD	\$10,101,186	0.20%	\$319,178	0.006%
Vanguard Information Technology Index Fund	2023	\$132,241,032	0.24%	\$7,378,383	0.013%
	2024 YTD	\$181,354,785	0.25%	\$3,632,301	0.005%
Vanauard Materials Index Fund	2023	\$6,905,519	0.18%	\$339,532	0.009%
Vanguard Materials Index Fund	2024 YTD	\$7,909,695	0.20%	\$223,343	0.006%
Vanguard Real Estate II Index Fund	2023	\$30,652,421	0.38%	\$302,051	0.004%
Vanguara Real Estate II Index Fund	2024 YTD	\$16,073,570	0.19%	\$197,015	0.002%
Vananciand Dani Catata Index Cond	2023	\$170,307,321	0.27%	\$2,137,999	0.003%
Vanguard Real Estate Index Fund	2024 YTD	\$181,198,239	0.29%	\$1,677,468	0.003%
Vanguard Communication Services Index Fund	2023	\$21,334,986	0.70%	\$10,228,824	0.335%
	2024 YTD	\$11,071,480	0.27%	\$1,502,017	0.037%
V	2023	\$7,603,431	0.11%	\$78,001	0.001%
Vanguard Utilities Index Fund	2024 YTD	\$4,201,234	0.07%	\$65,210	0.001%



Figure 37.1 2023/2024 securities-lending data by fund

	Year	Average market value of open loans	Average % on loan	Total period earned income	Income as % of average fund assets
International					
Vanguard Developed Markets Index Fund	2023	\$2,241,266,061	1.38%	\$56,263,387	0.035%
vanguara Developea Markets Index Fund	2024 YTD	\$1,865,603,794	1.01%	\$23,547,789	0.013%
Van annual Francisco Manda ta Charle India Francis	2023	\$1,301,348,487	1.33%	\$50,319,812	0.052%
Vanguard Emerging Markets Stock Index Fund	2024 YTD	\$1,376,675,719	1.35%	\$24,807,308	0.024%
	2023	\$96,720,439	0.42%	\$3,237,972	0.014%
Vanguard European Stock Index Fund	2024 YTD	\$94,925,781	0.38%	\$1,423,389	0.006%
Vanguard Fiduciary Trust Company Developed Markets	2023	\$1,134,147	0.04%	\$48,213	0.002%
Index Trust	2024 YTD	\$6,808,275	0.20%	\$123,278	0.004%
Van account ETSE All Month account from the	2023	\$492,229,175	0.98%	\$11,572,948	0.023%
Vanguard FTSE All-World ex-US Index Fund	2024 YTD	\$373,532,899	0.69%	\$5,548,778	0.010%
Vanguard FTSE All-World ex-US Small-Cap Index Fund	2023	\$491,391,099	4.86%	\$18,192,160	0.180%
	2024 YTD	\$429,634,535	4.15%	\$7,221,640	0.070%
Vanguard Global ex-U.S. Real Estate Index Fund	2023	\$92,994,995	2.28%	\$4,596,763	0.113%
vanguara Giobai ex-U.S. Real Estate Index Fund	2024 YTD	\$73,458,365	1.90%	\$1,513,710	0.039%
Vanguard Institutional Total International Stock Index	2023	\$248,015,013	1.10%	\$6,447,012	0.029%
Trust	2024 YTD	\$239,163,869	0.87%	\$2,628,948	0.010%
Vanguard Institutional Total International Stock Market	2023	\$957,371,183	0.57%	\$36,672,790	0.022%
Index Trust II	2024 YTD	\$840,708,604	0.42%	\$12,968,694	0.007%
Vanguard International Dividend Appreciation Index	2023	\$33,849,047	0.66%	\$429,413	0.008%
Fund	2024 YTD	\$27,858,916	0.42%	\$238,024	0.004%
V	2023	\$48,719,213	0.76%	\$1,175,933	0.018%
Vanguard International High Dividend Yield Index Fund	2024 YTD	\$64,956,149	0.85%	\$920,977	0.012%
V I D : C	2023	\$150,315,364	1.67%	\$4,630,359	0.052%
Vanguard Pacific Stock Index Fund	2024 YTD	\$95,755,424	0.97%	\$1,359,911	0.014%
	2023	\$5,257,853,479	1.42%	\$137,659,017	0.037%
Vanguard Total International Stock Index Fund	2024 YTD	\$4,863,816,953	1.18%	\$63,849,515	0.016%
Vanguard Total World Stock Index Fund	2023	\$236,448,663	0.64%	\$9,620,693	0.026%
	2024 YTD	\$222,255,278	0.49%	\$3,615,711	0.008%



Benchmark methodologies

IN THIS SECTION: Fixed income

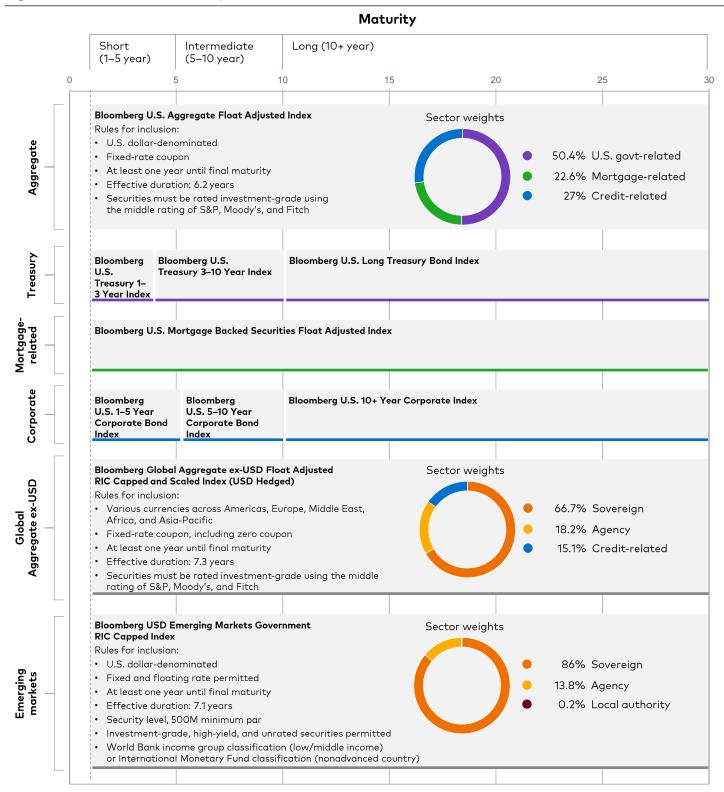
Equity



Benchmark methodologies overview

A review of U.S. and non-U.S. fixed income benchmarks

Figure 39.1 Fixed income benchmark composition



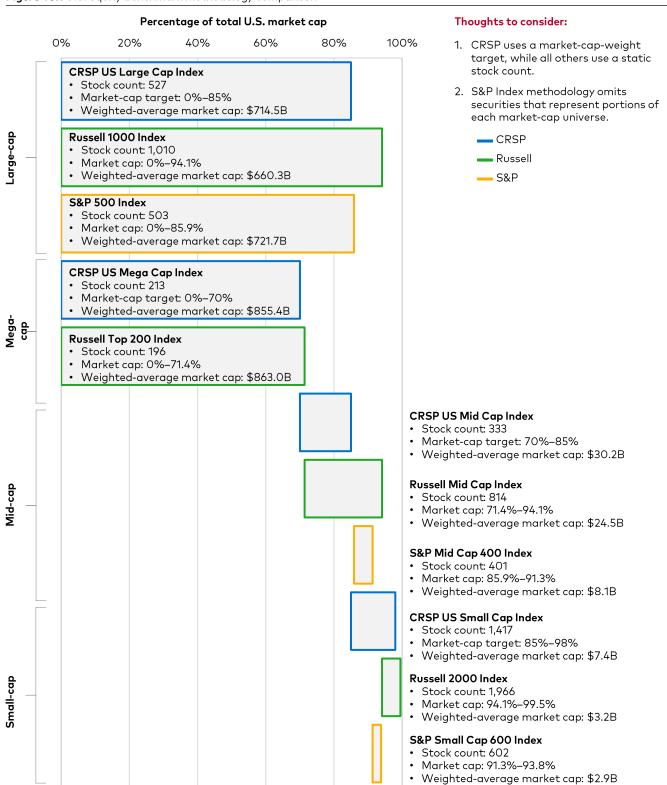
Numbers may not add to 100% due to rounding. All index characteristics data as of December 31, 2023.



Benchmark methodologies overview

Performance differences between indexes are caused by differences in construction methodology. Among the most impactful elements are exposures to market capitalization segments and regional markets, which are depicted by the charts below and on the following page.

Figure 40.1 U.S. equity benchmark methodology comparison



CRSP is shown as a targeted market cap, while the others are shown as a percentage of the S&P Total Stock Market. All index characteristics data as of December 31, 2023.



Benchmark methodologies overview

Figure 41.1 Global equity benchmark methodology comparison

FTSE Global All Cap Index

- Large-, mid-, and small-cap stocks in developed and emerging markets; \$75.3T total market cap
- Stock count: 10,079
- Weighted average market cap: \$415.9B

lobal

MSCI ACWI All Cap Index

- Large-, mid-, and small-cap stocks in developed and emerging markets; \$76.4T total market cap
- Stock count: 15,533
- Weighted-average market cap: \$412.8B

Global ex-U.S.

FTSE Global All Cap ex US Index

- Large-, mid-, and small-cap stocks in developed and emerging markets; \$29.4T total market cap
- Stock count: 8,317
- Weighted-average market cap: \$79.2B

MSCI ACWI ex USA All Cap Index

- Large-, mid-, and small-cap stocks in developed and emerging markets; \$29.7T total market cap
- Stock count: 11,966
- Weighted-average market cap: \$78.8B

Developed and emerging

FTSE Developed All Cap Ex US Index

- Large-, mid-, and small-cap stocks in developed markets; \$22T total market cap
- Stock count: 3,958
- Weighted-average market cap: \$77.1B

MSCI World ex US All Cap Index

- Large-, mid-, and small-cap stocks in developed markets; \$21.4T total market cap
- Stock count: 8,539
- Weighted-average market cap: \$73B

FTSE Emerging Markets All Cap China A Inclusion Index

- Large-, mid-, and small-cap stocks in emerging markets; \$7.5T total market cap
- Stock count: 4,602
- Weighted-average market cap: \$84.9B

MSCI Emerging Markets IMI Index

- Large-, mid-, and small-cap stocks in emerging markets; \$8.2T total market cap
- Stock count: 3,427
- Weighted-average market cap: \$93.8B

FTSE

MSCI

- South Korea is 4.40% of FTSE Developed All Cap ex US Index and 0% for FTSE Emerging Markets All Cap China A Inclusion Index.
 - South Korea is 11.64% of MSCI Emerging Markets IMI Index and 0% for MSCI World ex-U.S. All Cap Index.
- China A-shares is 6.58% of MSCI Emerging Markets Index.
 China A-shares is 11.64% of FTSE Emerging Markets All Cap China A Inclusion Index.

Notes

Notes

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