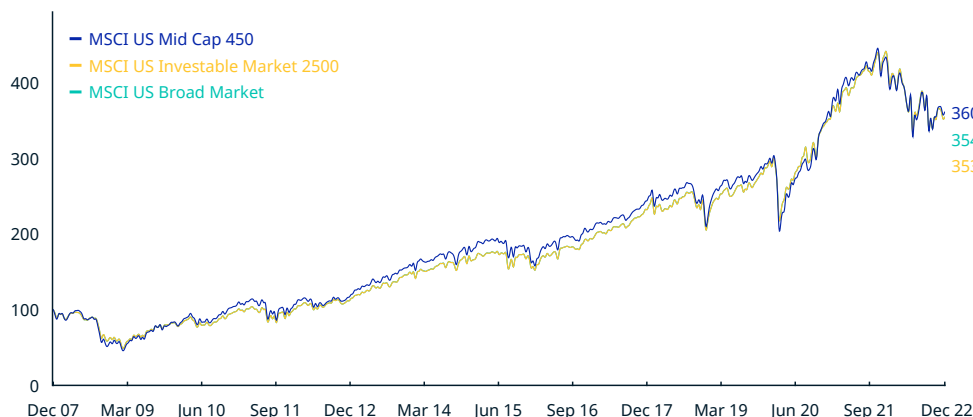


# MSCI US Mid Cap 450 Index (USD)

The MSCI US Mid Cap 450 Index is comprised of the next largest 450 companies in terms of market capitalization of the US equity market and designed to measure the performance of the mid cap segment. The index represents approximately 16% of the free float-adjusted market capitalization of the US equity market.

## CUMULATIVE INDEX PERFORMANCE – GROSS RETURNS (USD) (DEC 2007 – DEC 2022)



## ANNUAL PERFORMANCE (%)

Year	MSCI US Mid Cap 450	MSCI US Investable Market 2500	MSCI US Broad Market
2022	-16.94	-19.24	-19.23
2021	24.03	26.13	26.10
2020	19.82	21.01	21.02
2019	30.61	31.09	31.07
2018	-8.14	-5.27	-5.28
2017	20.26	21.22	21.21
2016	12.62	12.63	12.67
2015	-0.55	0.61	0.57
2014	13.39	12.71	12.66
2013	36.34	33.51	33.62
2012	16.04	16.40	16.44
2011	-1.91	1.15	1.08
2010	25.69	17.17	17.28
2009	40.49	28.63	28.76

## INDEX PERFORMANCE – GROSS RETURNS (%) (DEC 30, 2022)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED				Since May 30, 2003
					3 Yr	5 Yr	10 Yr		
MSCI US Mid Cap 450	-4.93	9.35	-16.94	-16.94	7.27	8.17	11.92	10.66	
MSCI US Investable Market 2500	-5.90	7.22	-19.24	-19.24	7.22	8.89	12.21	9.67	
MSCI US Broad Market	-5.89	7.21	-19.23	-19.23	7.22	8.88	12.21	9.67	

## FUNDAMENTALS (DEC 30, 2022)

Div Yld (%)	P/E	P/E Fwd	P/BV
1.74	18.62	15.14	2.66
1.70	19.65	17.00	3.56
1.70	19.87	na	3.54

## INDEX RISK AND RETURN CHARACTERISTICS (DEC 30, 2022)

	Turnover (%) <sup>1</sup>	ANNUALIZED STD DEV (%) <sup>2</sup>			SHARPE RATIO <sup>2,3</sup>			Since May 30, 2003	MAXIMUM DRAWDOWN	
		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI US Mid Cap 450	12.23	24.04	21.05	16.58	0.38	0.42	0.71	0.55	58.90	2007-07-13–2009-03-09
MSCI US Investable Market 2500	2.11	21.86	19.27	15.22	0.39	0.47	0.78	0.52	55.29	2007-10-09–2009-03-09
MSCI US Broad Market	2.09	21.86	19.27	15.23	0.39	0.47	0.78	0.59	55.39	2007-10-09–2009-03-09

<sup>1</sup> Last 12 months

<sup>2</sup> Based on monthly gross returns data

<sup>3</sup> Based on NY FED Overnight SOFR from Sep 1 2021 & on ICE LIBOR 1M prior that date

# MSCI US Mid Cap 450 Index (USD)

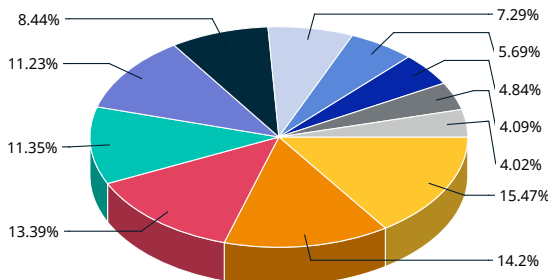
## INDEX CHARACTERISTICS

MSCI US Mid Cap 450	
<b>Number of Constituents</b>	453
<b>Mkt Cap (USD Millions)</b>	
<b>Index</b>	5,252,979.46
<b>Largest</b>	35,688.26
<b>Smallest</b>	614.29
<b>Average</b>	11,595.98
<b>Median</b>	10,001.52

## TOP 10 CONSTITUENTS

	Float Adj Mkt Cap (USD Billions)	Index Wt. (%)	Sector
HALLIBURTON CO	35.69	0.68	Energy
CONSOLIDATED EDISON	33.80	0.64	Utilities
DOLLAR TREE	31.67	0.60	Cons Discr
VICI PROPERTIES	31.20	0.59	Real Estate
KEYSIGHT TECHNOLOGIES	30.67	0.58	Info Tech
BAKER HUGHES CO	29.88	0.57	Energy
ARISTA NETWORKS	29.54	0.56	Info Tech
HORTON (DR)	29.43	0.56	Cons Discr
ONEOK	29.36	0.56	Energy
ALNYLAM PHARMACEUTICALS	28.52	0.54	Health Care
<b>Total</b>	<b>309.76</b>	<b>5.90</b>	

## SECTOR WEIGHTS



- Information Technology 15.47%
- Industrials 14.2%
- Financials 13.39%
- Health Care 11.35%
- Consumer Discretionary 11.23%
- Real Estate 8.44%
- Utilities 7.29%
- Materials 5.69%
- Energy 4.84%
- Communication Services 4.09%
- Consumer Staples 4.02%

The MSCI US Mid Cap 450 Index was launched on Mar 27, 2003. Data prior to the launch date is back-tested test (i.e. calculations of how the index might have performed over that time period had the index existed). There are frequently material differences between back-tested performance and actual results. Past performance -- whether actual or back-tested -- is no indication or guarantee of future performance.

## INDEX FRAMEWORK

The index is based on the [MSCI US Equity Indexes Methodology](#). In constructing the MSCI US Equity market capitalization Indexes, MSCI has adopted a broad index structure that reflects the full breadth of investment opportunities across size segments in the US equity markets. Companies are categorized into different market capitalization segments and indexes are defined by a fixed number of companies. The MSCI US Equity Indexes are managed with the objective of reflecting the evolution of equity markets and equity market segments in a timely fashion. In reviewing its various sub-indexes, MSCI's goal is to strike a balance between ensuring that the various indexes continue to accurately reflect the different investment processes and their opportunity sets and at the same time minimize index turnover. The market capitalization indexes are fully reviewed on a semi-annual basis, at the end of May and November, and partially reviewed at the end of February and August. During these index reviews, MSCI uses "buffer zones" to manage the migration of companies from one market capitalization index to another.

This summary is provided for illustrative purposes only and does not include all material elements of the index or its methodology. For a complete description of the index methodology, please see [Index methodology - MSCI](#).

## ABOUT MSCI

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