

# ETF Sector Rotation Model

Model MSCI CA Index

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## Annual Returns

## Compound Annual Growth

## Standard Deviation History

## Average Monthly Returns

Sharpe	0.97	0.32	2004	20.64	22.73	Inception	10.63	7.12
Skew	-0.06	-0.94	2005	20.83	27.52	20 Year	10.34	6.68
Kurtosis	2.44	4.49	2006	22.14	15.62	15 Year	8.45	4.92
Max drawdown	-13.39	-56.88	2007	12.83	28.39	10 Year	7.96	6.11
Up Capture	0.48		2008	-4.57	-44.72	5 Year	9.69	14.31
Down Capture	0.18		2009	35.33	53.08	3 Year	2.12	7.07
Alpha	8.43		2010	3.38	18.94			
Beta	0.29		2011	1.66	-12.49			
Up Beta	0.25		2012	1.87	9.09			
Down Beta	0.25		2013	17.10	5.25			
Correlation	0.57		2014	20.94	1.02			
Up Correlation	0.33		2015	1.82	-23.90			
Down Correlation	0.41		2016	0.38	23.83			
			2017	6.04	15.70			
Positive months	163	146	2018	-3.76	-17.15			
Negative months	93	108	2019	26.88	27.51			
Win rate	63.67	57.03	2020	13.15	5.51			
			2021	27.69	26.95			
Positive quarters	59	59	2022	1.67	-12.84	January	1.11	0.19
Negative quarters	26	26	2023	-4.07	14.68	February	1.19	0.83
Win rate	69.41	69.41	2024	7.77	12.42	March	0.25	0.49
			2025-04	9.22	5.33	April	0.78	2.08
Positive years	18	16				May	1.03	0.74
Negative years	3	5				June	-0.03	-0.34
Win Rate	85.71	76.19				July	1.86	2.22
						August	0.32	-0.09
Positive positions	197					September	0.61	-0.56
Average gain	7.33					October	0.17	-0.69
Negative positions	94					November	1.14	1.37
Average loss	-5.33					December	1.70	0.57
Trades	206					May-Oct	3.78	1.97
... per month	0.81					Nov-Apr	6.32	4.84

## Range of Historical Rolling CAGRs:

Best 1-year	38.74	74.00
Worst 1-year	-8.66	-51.97
Best 3-year	22.38	31.14
Worst 3-year	0.80	-12.64
Best 5-year	16.96	16.16
Worst 5-year	3.11	-6.48
Best 10-year	13.51	10.28
Worst 10-year	6.18	-0.42



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Model returns reflect a 0.50% annual trading expense on total portfolio value – which may be higher or lower than actual trading costs. Actual performance will vary from that of investing in the Model because it may not be fully invested at all times. Hypothetical model returns in certain years were significantly higher than the returns of the S&P TSX Index. It is important to note that models may underperform in certain years and may produce negative results. Investments in models should be made with an understanding of the risks involved with owning common stocks, such as an economic recession and the possible deterioration of either the financial condition of the issuers of the equity securities or the general condition of the stock market. The value of the securities selected by the Model may be subject to steep declines or increased volatility or perception of the issuers.

**Sharpe ratio** is the average return earned in excess of the risk-free rate per unit of volatility or total risk. **Maximum drawdown** (MDD) is the **maximum** loss from a peak to a trough of a portfolio, before a new peak is attained and is an indicator of downside risk over a specified time period. **Upside and downside capture ratios** measure whether a given fund has outperformed--gained more or lost less than--a broad market benchmark during periods of market strength and weakness, and if so, by how much. **Alpha** gauges the performance of an investment against a market index used as a benchmark. **Beta** measures the volatility of an investment compared to the market as a whole. **Correlation**, measures the degree to which two securities move in relation to each other. In order to make Beta and Correlation more relevant factors, we've split each between up markets and down markets.

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