

Do You Invest with the Fed?

Economic Index Associates (EIA) develops active index strategies that are investable and rules-based. EIA created the "Invest with the Fed" (IFEDTM) strategy, which uses Fed policy signals to guide security selection.

EIA's founders are *authorities on Fed monetary policy and security returns* – they have published over 200 academic articles, which have over 10,000 citations. The premise of their research is in their book - *Invest with the Fed* (McGraw-Hill, 2015).



EIA's INDEX OFFERINGS & THEIR PERFORMANCE, JAN 1999 - DEC 2023

	<i>IFED-A</i> (All Cap)	<i>IFED-LG</i> (Large Cap)	<i>IFED-LM</i> (Large Mid)	<i>IFED-M</i> (Mid Cap)	IFED-S (Small Cap)	<i>IFED-LV</i> (Low Vol)
Annual Return	20.20%	18.30%	19.43%	18.63%	17.52%	12.85%
Alpha vs Benchmark	12.52%	10.77%	11.85%	9.08%	8.05%	4.19%
Standard Deviation	21.38%	18.66%	20.10%	20.78%	22.69%	12.95%
Upside Capture*	150.27%	137.22%	143.18%	125.14%	128.42%	122.27%
Downside Capture*	66.93%	62.18%	65.37%	71.11%	83.05%	89.48%
Tracking Error*	13.80%	10.75%	12.22%	10.07%	10.91%	5.25%
Benchmark	S&P 1500	S&P 500	Russell 1000	S&P MidCap 400	S&P SmallCap 600	S&P 500 Low Vol

^{*} Each IFED index vs its respective benchmark

THE EVOLUTION OF INDEX INVESTING







SMART BETA

Smart beta ushered in the concept of fundamentallyweighted indexes.



ECONOMIC INDEXING

EIA applies the next generation approach – dynamically-weighted portfolios positioned to benefit from prevailing market conditions.

IFED INDEX OUTPERFORMANCE (ALPHA) BY HOLDING PERIOD

	<i>IFED-A</i> (All Cap)	<i>IFED-LG</i> (Large Cap)	<i>IFED-LM</i> (Large Mid)	<i>IFED-M</i> (Mid Cap)	<i>IFED-S</i> (Small Cap)	IFED-LV (Low Vol)
Full Period (Jan 1999 – Dec 2023)	12.52%	10.77%	11.85%	9.08%	8.05%	4.19%
20 Years	7.58%	7.23%	7.17%	5.87%	4.65%	4.26%
10 Years	7.01%	6.15%	4.70%	6.85%	7.51%	5.63%
5 Years	7.26%	4.26%	2.42%	7.77%	11.42%	7.09%
3 Years	5.96%	7.03%	3.96%	6.76%	9.34%	6.36%
2 Years	10.65%	7.85%	5.37%	6.35%	14.66%	7.73%
1 Year	11.18%	-7.08%	-8.13%	2.82%	21.44%	9.00%
3 Months*	5.27%	-1.93%	-0.56%	4.37% 2.63%		3.16%
1 Month*	6.79%	-0.98%	2.53%	3.63%	2.22%	1.06%

^{*} Not annualized

IFED METHODOLOGY



STARTING UNIVERSE AND STOCK SCORING

- Stocks listed on NYSE or Nasdaq with 3+ years of data
- EIA's proprietary market indicator classifies conditions as expansive, restrictive or indeterminate
- 12 firm-specific metrics determine stock IFED Scores (i.e., ability to benefit from prevailing market conditions)



COMPOSITION & WEIGHTING

- Each stock is ranked by its *IFED*Score
- 75 stocks with highest Scores for prevailing conditions are selected
- Selected stocks are weighted by IFED Score
- Customized *IFED* indexes integrate unique features



INDEX REBALANCE TIMING

- IFED indexes rebalance when required to maintain alignment with market conditions.
- IFED Model reacts to shifts in Fed policy, rather than existing rate levels or past economic conditions.
- See below....

Selected Data by Market Environment: Jan 1999 - Dec 2023

Market Environment

	Expansive	Indeterminate	Restrictive					
Fed Signal	Easing	Mixed	Tightening					
IFED-A Alpha	15.50%	14.08%	10.06%					
Fed Mandate Priority	Full Employment	Balanced	Price Stability (Inflation)					
% Sample Period	25.33%	25.67%	49.00%					

MARKET ENVIRONMENT CHARACTERISTICS







Indeterminate



Restrictive

* As of June 1st in any year, if there has been no change in the market environment in the prior six months, *IFED* indexes rebalance to reflect updated financial metrics.

IFED Turnover/Rebalance Data

- · Fed policy shifts are primary trigger for rebalances
- During the 25-year period, there were 46 rebalances
 - → 35 due to changes in the market environment
 - → 11 due to changes in firm metrics with no environment change *
- Rebalances per year: max. = 3 (e.g., 2021); min. = 1 (e.g., 2022)
 - → Average number of rebalances is 1.8 per annum
 - → Turnover per rebalance range 40.28% to 97.35%
 - → Average annual turnover is 168.98%
- Index holdings change with each rebalance; alpha is captured by maintaining alignment with conditions
 - → Firm metrics drive the holdings, so factor and sector exposures vary substantially across environment

COMPARATIVE ANNUAL RETURNS BY HOLDING PERIOD

	IFED-A	S&P 1500	IFED-LG	S&P 500	IFED-LM	Russell 1000	IFED-M	S&P 400	IFED-S	S&P 600	IFED-LV	S&P Low Vol
Full Period	20.20%	7.68%	18.30%	7.53%	19.43%	7.58%	18.63%	9.55%	17.52%	9.46%	12.85%	8.65%
20 Years	17.33%	9.75%	16.88%	9.65%	16.95%	9.78%	15.68%	9.81%	14.30%	9.65%	13.45%	9.19%
10 Years	18.77%	11.76%	18.09%	11.95%	16.51%	11.80%	16.13%	9.27%	16.16%	8.66%	14.83%	9.20%
5 Years	22.64%	15.39%	19.79%	15.52%	17.94%	15.52%	20.39%	12.62%	22.45%	11.03%	15.74%	8.65%
3 Years	16.01%	10.06%	16.97%	9.94%	13.12%	9.17%	14.91%	8.15%	16.66%	7.32%	12.79%	6.43%
2 Years	12.22%	1.57%	9.54%	1.69%	6.53%	1.16%	6.96%	0.61%	13.34%	-1.32%	5.76%	-1.97%
1 Year	36.64%	25.47%	19.21%	26.29%	18.40%	26.53%	19.26%	16.44%	37.49%	16.05%	9.72%	0.72%
3 Months*	17.05%	11.78%	9.76%	11.69%	11.40%	11.96%	16.04%	11.67%	17.75%	15.12%	10.52%	7.37%
1 Month*	11.77%	4.98%	3.57%	4.54%	7.47%	4.94%	12.35%	8.72%	15.01%	12.80%	3.41%	2.35%

* Not annualized

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