

Harbor Scientific Alpha High-Yield ETF

Ticker: **SIHY** | December 2024



Average Annual Returns as of 12/31/2024

	3 Months	YTD	1 Yr.	3 Yr.	5 Yr.	10 Yr.	Since Inception	Inception Date	Total Expense Ratio
Harbor Scientific Alpha High-Yield ETF (NAV)	0.47%	8.52%	8.52%	4.35%	N/A	N/A	3.96%	09/14/2021	0.48%
Harbor Scientific Alpha High-Yield ETF (Market)	0.16%	8.64%	8.64%	4.17%	N/A	N/A	3.88%	09/14/2021	
ICE BofA US High Yield Index (H0A0)	0.16%	8.20%	8.20%	2.91%	N/A	N/A	2.72%	09/14/2021	

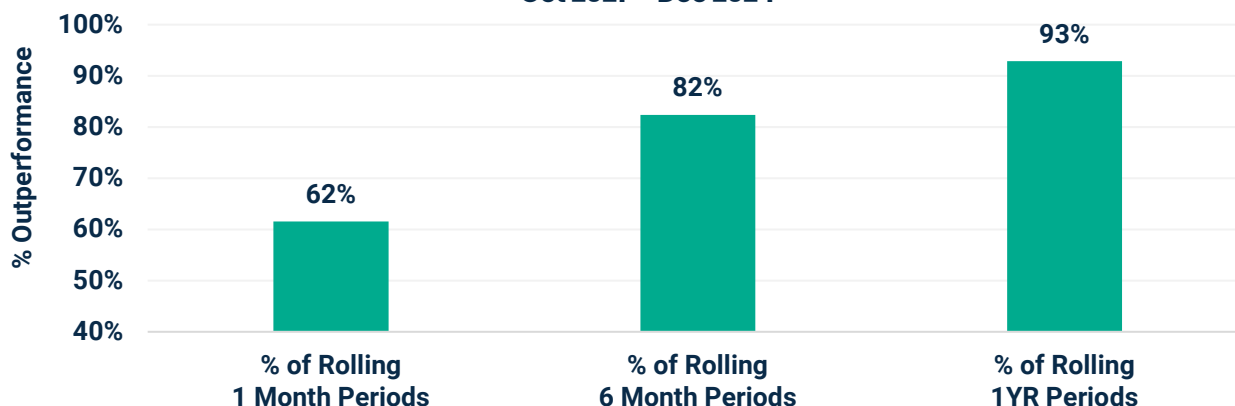
Performance data shown represents past performance and is no guarantee of future results. Past performance is net of management fees and expenses and reflects reinvested dividends and distributions. Investment returns and principal value will fluctuate and when redeemed may be worth more or less than their original cost. Returns for periods less than one year are not annualized. Current performance may be higher or lower and is available through the most recent month end at harborcapital.com or by calling 800-422-1050.

Shares are bought and sold at market price not net asset value (NAV). A fund's NAV is the sum of all its assets less any liabilities, divided by the number of shares outstanding. Market price returns are based upon the closing composite market price and do not represent the returns you would receive if you traded shares at other times.

History of Consistent & Attractive Return Profile

- Since inception, SIHY has demonstrated attractive excess returns relative to the ICE BofA US High Yield Index.
- For instance, over rolling 6-month periods since inception, SIHY has delivered excess returns in 82% of periods. Over rolling 1-year windows, SIHY (NAV) has outperformed the ICE BofA US High Yield Index in 93% of periods.

**Harbor Scientific Alpha High-Yield ETF (NAV) vs. ICE BofA US High Yield
% Outperformance Over Rolling Period Windows (Monthly)
Oct 2021 - Dec 2024**



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Source: Morningstar Direct. December 2024

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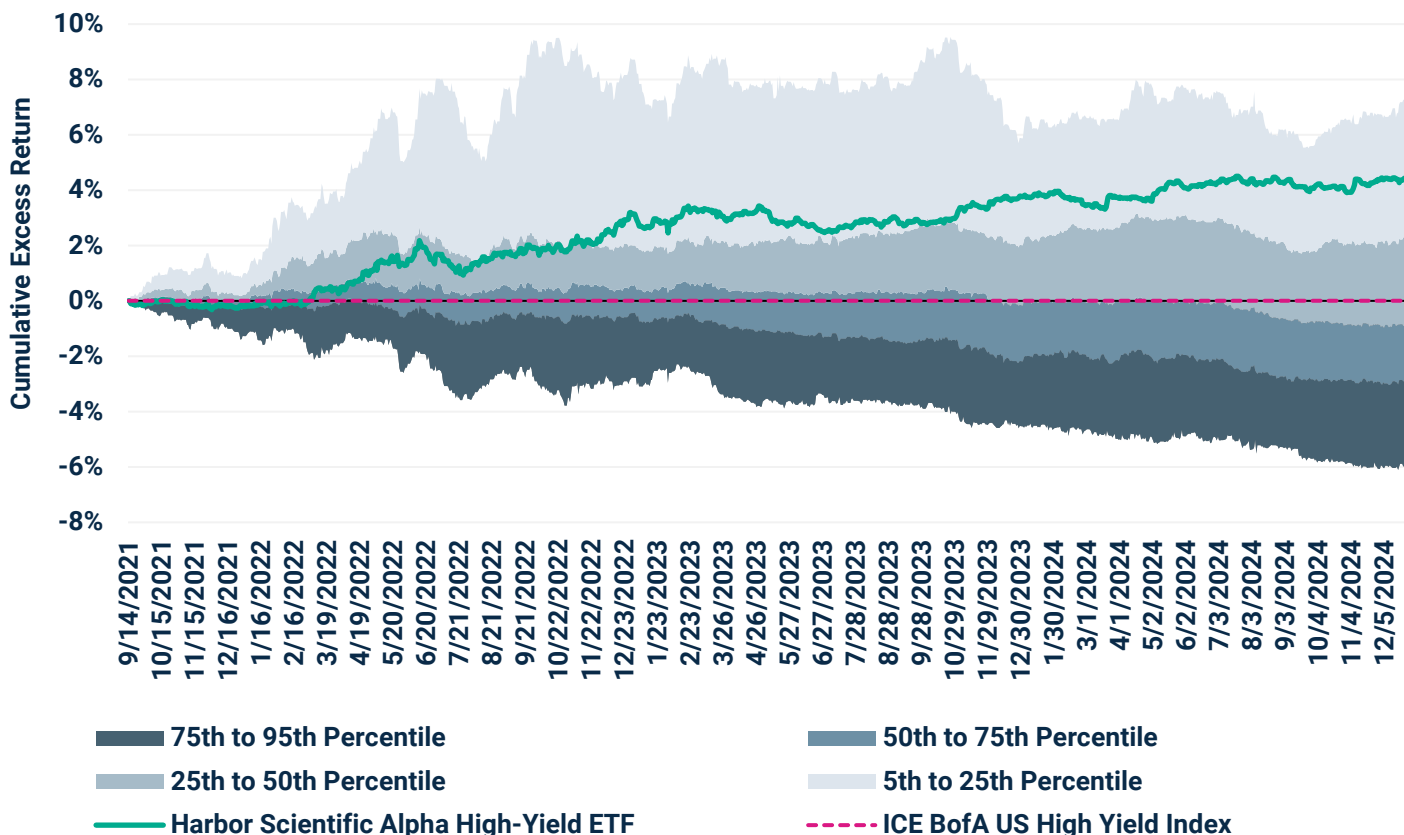
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Compounding Consistency

- Compounding this consistency has led to attractive results relative to both the index and peers.
- Since SIHY's (NAV) 9/14/2021 inception, the ETF has delivered 444 basis points of cumulative excess return relative to the ICE BofA US High Yield Index.
- This since-inception performance ranks 14th percentile out of 597 funds (based on total returns) within Morningstar's US High Yield Bond Category.

Harbor Scientific Alpha High-Yield ETF (SIHY) NAV vs. ICE BofA US High Yield Index & Morningstar US High Yield Bond Category
Cumulative Excess Return (Based on Total Returns): 9/14/2021 - 12/31/2024 (Daily)



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The Morningstar Rankings are based on total returns, with distributions reinvested and operating expenses deducted. Morningstar does not take into account sales charges. Harbor Scientific Alpha High-Yield ETF was ranked against Morningstar's US Fund High Yield Bond category, quarterly, based on total returns, over the following time periods: 154 out of 641 investments in the category for the 1-year period and 56 out of 605 investments in the category for the 3-year period as of 12/31/2024. The highest (or most favorable) percentile rank is 1 and the lowest (or least favorable) percentile rank is 100. Past rankings are no guarantee of future rankings.

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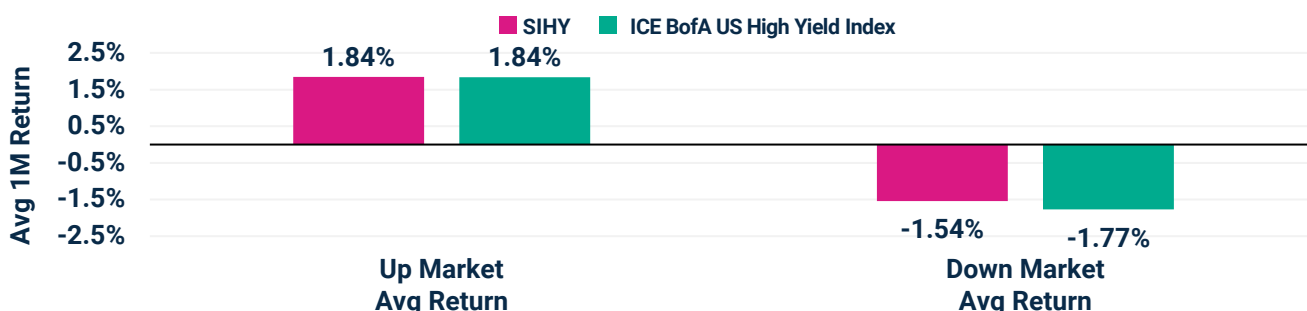
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Upside Participation with Downside Mitigation

- A focus on curating high-quality alpha insights and allowing security selection to drive excess returns has produced an attractive return profile since SIHY's September 2021 inception.
- In months where the ICE BofA US High Yield Index has delivered positive performance, the ETF has, on average, kept pace with the index. Conversely, in months where the ICE BofA US High Yield Index delivered negative returns, SIHY (NAV) outperformed by 23 basis points on average.

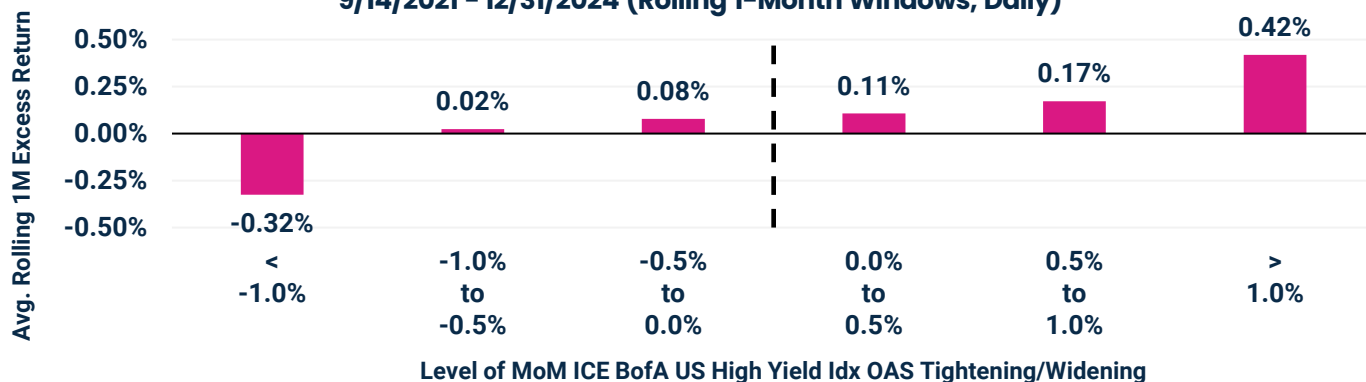
SIHY (NAV) vs. ICE BofA US High Yield Index
Average 1-Month Excess Returns, Up/Down Markets for ICE BofA US High Yield
Oct 2021 - Dec 2024 (Computed Monthly)



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- In part, this defensive profile stems from strong excess returns in periods of spread widening.
- Spread widening in high-yield markets can often produce elevated levels of dispersion. For BlueCove's high-breadth active approach, higher dispersion represents an attractive opportunity set for security selection, in our view.
- On average, in periods of spread widening, SIHY (NAV) has delivered its strongest excess returns versus the ICE BofA US High Yield Index.

SIHY (NAV) vs. ICE BofA US High Yield Index Avg. Rolling 1-Month Excess Returns
Across Different Month-over-Month High Yield Option Adjusted Spread Environments (Tightening/Widening)
9/14/2021 - 12/31/2024 (Rolling 1-Month Windows, Daily)



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Introducing BlueCove

- BlueCove is a specialist active manager founded in 2018 with a platform that is custom built for scientific fixed income.
- BlueCove’s objective is to deliver strong investment outcomes for investors through active management utilizing proprietary research insights.
- BlueCove is well resourced with a primary focus on investment research and development (R&D). The team includes innovators in scientific fixed income investing with investment team heads averaging 23 years of experience.
- The firm’s business model is based on the three main pillars of owner mentality¹, total focus, and modern technology.



Owner Mentality¹

Each employee has an equity interest in the firm

Focus

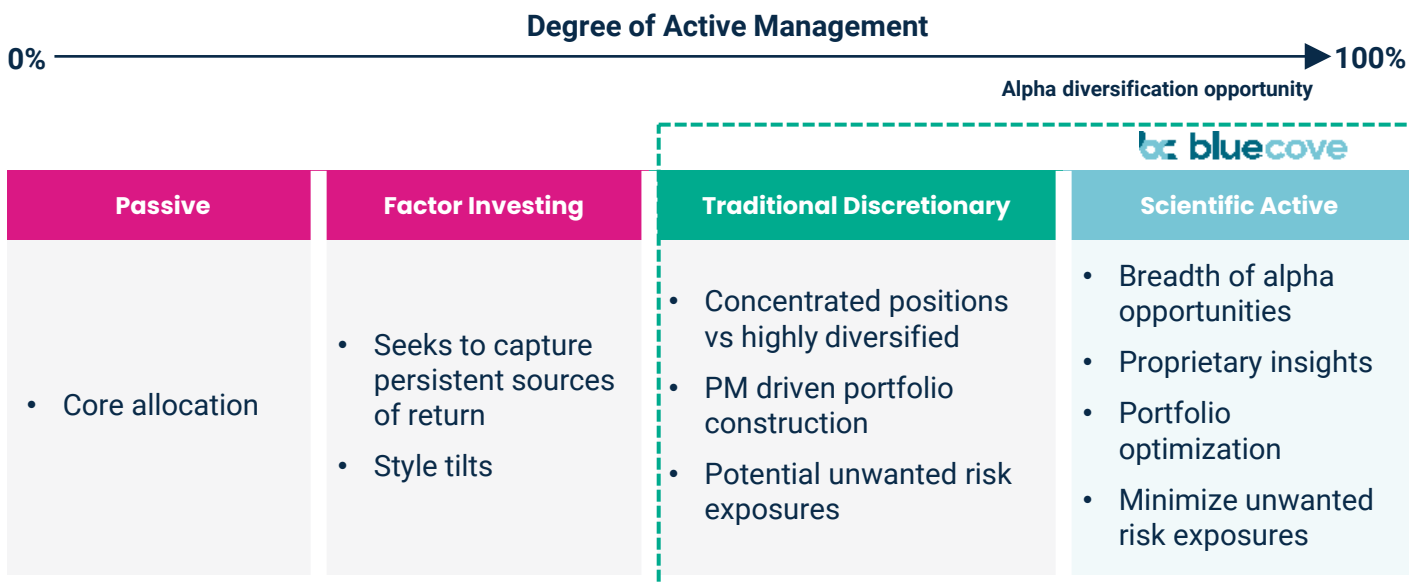
Commitment to scientific fixed income investing

Modern Technology

Technology is custom-built for scientific fixed income investing

Introducing Scientific Investing

- BlueCove’s scientific investment process is evidence based, data-driven, economically intuitive, and grounded in the scientific method with targeted R&D at each step of the investment process.
- Scientific investing provides investors with an alternative to passive or factor investing through the application of proprietary insights based on economic intuition.
- Scientific investing may also serve as a complement or alternative to traditional discretionary investing by working to maximize breadth to target high-quality alpha from a large number of positions.



1. On 28 February 2023, BlueCove and Ares Management announced a strategic partnership.

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Ticker Symbol	Cusip	Listed Exchange	Gross Expense Ratio	Lead Market Maker	Inception Date	Benchmark	Morningstar Category
SIHY	41151J109	NYSE	0.48%	Jane Street	9/14/2021	ICE BofA US High Yield Index	High Yield

The BlueCove Process

- BlueCove develops proprietary insights driven by signals that emphasize economic intuition and empirical evidence utilizing data beyond the scope of traditional credit analysis.
- BlueCove believes their signal set will enable the Fund to take advantage of market inefficiencies by providing insights across sentiment, valuation, and fundamentals.

Portfolio Construction

Ultimately the portfolio is constructed through an optimization¹ process driven by proprietary tools and aims to:

Maximize alpha forecasts

Minimize market, sector, and curve risk

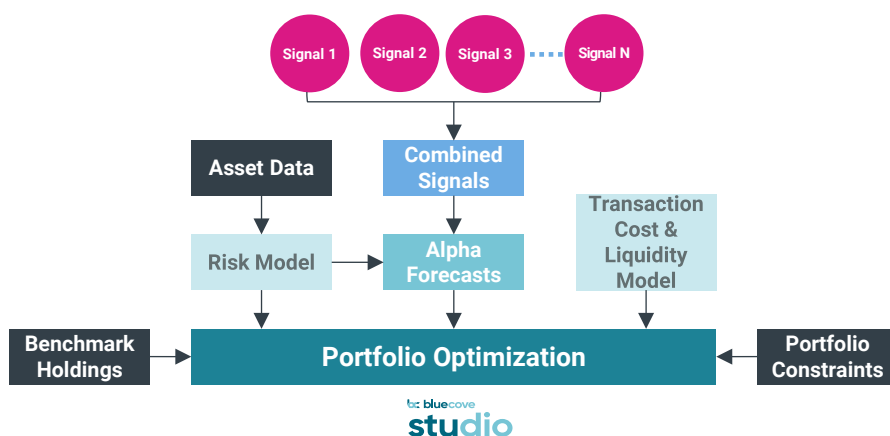
Mitigate issuer concentration risk

Minimize transaction costs

Realistically measure market liquidity

SIHY is differentiated from other active competitors by applying a scientific approach while matching the market exposure of the index, hence emphasizing a strong security selection focus.

Signal	Insight
• Equity momentum	Equity price
• Earnings forecast • Earnings sentiment	Earnings outlook
• Fundamental momentum	Profitability trend
• Geographic momentum	Economic relationships
• Structural default probability value • Fundamental default probability value	Relative Value
• Cash flow generation • Profitability	Fundamentals
• Asset volatility • Equity risk premium	Business stability & strength



1. Optimization is a point in time construction of portfolios reflecting known inputs and constraints and does not imply that further improvements are not possible.



Investors should carefully consider the investment objectives, risks, charges and expenses of a Harbor fund before investing. To obtain a summary prospectus or prospectus for this and other information, visit harborcapital.com or call 800-422-1050. Read it carefully before investing.

Investing involves risk, principal loss is possible. Unlike mutual funds, ETFs may trade at a premium or discount to their net asset value. Harbor ETFs are new and have limited operating history to judge.

All investments involve risk including the possible loss of principal. Fixed income securities fluctuate in price in response to various factors, including changes in interest rates, changes in market conditions and issuer-specific events, and the value of your investment in the Fund may go down. There is a greater risk that the Fund will lose money because they invest in below-investment grade fixed income securities and unrated securities of similar credit quality (commonly referred to as “high-yield securities” or “junk bonds”). These securities are considered speculative because they have a higher risk of issuer default, are subject to greater price volatility and may be illiquid. Because the Fund may invest in securities of foreign issuers, an investment in the Fund is subject to special risks in addition to those of U.S. securities. These risks include heightened political and economic risks, greater volatility, currency fluctuations, higher transaction costs, delayed settlement, possible foreign controls on investment, possible sanctions by government bodies of other countries and less stringent investor protection and disclosure standards of foreign markets.

The **ICE BofAML US High Yield Index (H0A0)** is an unmanaged index that tracks the performance of below investment grade U.S. Dollar-denominated corporate bonds publicly issued in the U.S. domestic market. All bonds are U.S. dollar denominated and rated Split BBB and below. This unmanaged index does not reflect fees and expenses and is not available for direct investment.

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A basis point is a standard measure for interest rates and other percentages in finance. One basis point equals 1/100th of 1%, or 0.01% (and .0001 in decimal form).

Option Adjusted Spread (OAS) is the measurement of the spread of a fixed-income security rate and the risk-free rate of return, which is then adjusted to take into account an embedded option.

Alpha refers to excess returns earned on an investment.

The views expressed herein may not be reflective of current opinions, are subject to change without prior notice, and should not be considered investment advice.

BlueCove Limited is a third-party subadvisor to the Harbor Scientific Alpha High-Yield ETF.

Foreside Fund Services, LLC is the Distributor of the Harbor ETFs.