



THE LEUTHOLD GROUP



LEUTHOLD TARGETED RISK  
ETF PORTFOLIOS

Q2 2023

# LEUTHOLD PRODUCT SUMMARY

|  | PRODUCT                                      | VEHICLE                                  | MINIMUM      | TICKER<br>INCEPTION         | BENCHMARK                                    |
|--|--|--|--------------|-----------------------------|--|
| Tactical Asset Allocation                            | <b>Leuthold Core Investment</b>              |  |              |                             |  |
|  | 6/1/87                                       | Separate Account                         | \$2,000,000  |                             | S&P 500 Index                                |
|  | 11/20/95                                     | Mutual Fund <sup>1</sup>                 | \$10,000     | LCORX                       | Morningstar Tactical Allocation              |
|  | 1/31/06                                      | Mutual Fund (Institutional) <sup>1</sup> | \$1,000,000  | LCRIX                       | Category Average                             |
|  | 12/1/18                                      | Separate Account (ETFs)                  | \$50,000     |                             | Bloomberg Global Agg. Index                  |
|  | 1/6/20                                       | ETF <sup>2</sup>                         |              | LCR                         |  |
|  | <b>Leuthold Global</b>                       |  |              |                             |  |
|  | 7/1/08                                       | Mutual Fund <sup>1</sup>                 | \$10,000     | GLBLX                       | MSCI ACWI                                    |
|  | 4/30/08                                      | Mutual Fund (Institutional) <sup>1</sup> | \$1,000,000  | GLBIX                       | Bloomberg Global Agg. Index<br>S&P 500 Index |
|  | <b>Leuthold Global Tactical ETF Strategy</b> |  |              |                             |  |
| 12/29/2016   | SMA/UMA                                      | \$50,000                                 |              | 60% ACWI/40% Bar. U.S. Agg* |  |
| <b>Leuthold Conservative Allocation ETF Strategy</b> |  |  |              |                             |  |
| 12/29/2016   | SMA/UMA                                      | \$50,000                                 |              | 25% ACWI/75% Bar. U.S. Agg* |  |
| <b>Leuthold Moderate Allocation ETF Strategy</b>     |  |  |              |                             |  |
| 12/29/2016   | SMA/UMA                                      | \$50,000                                 |              | 60% ACWI/40% Bar. U.S. Agg* |  |
| <b>Leuthold Aggressive Allocation ETF Strategy</b>   |  |  |              |                             |  |
| 12/29/2016   | SMA/UMA                                      | \$50,000                                 |              | 85% ACWI/15% Bar. U.S. Agg* |  |
| Long Only  | <b>Leuthold Select Industries</b>            |  |              |                             |  |
|  | 1/1/96                                       | Separate Account                         | \$1,000,000  |                             | S&P 500 Index                                |
|  | 6/19/00                                      | Mutual Fund <sup>1</sup>                 | \$10,000     | LSLTX                       | S&P MidCap 400 Index<br>S&P 600 Index        |
|  | <b>Leuthold Sector Rotation Strategy</b>     |  |              |                             |  |
|  | 5/10/16                                      | SMA/UMA                                  | \$50,000     |                             | S&P 500 Index                                |
| <b>Leuthold Enhanced Sector Rotation Strategy</b>    |  |  |              |                             |  |
| 5/10/16  | SMA/UMA                                      | \$50,000                                 |              | S&P 500 Index               |  |
| <b>Leuthold Factor Tilt Strategy</b>                 |  |  |              |                             |  |
| 12/28/17   | SMA/UMA                                      | \$50,000                                 |              | S&P 500 Index               |  |
| Short Only   | <b>AdvantHedge</b>                           |  |              |                             |  |
|  | 11/1/90                                      | Separate Account                         | \$10,000,000 |                             | S&P 500 Index                                |
| 6/19/00  | Mutual Fund <sup>1</sup>                     | \$10,000                                 | GRZZX        | S&P MidCap 400 Index        |  |

\*primary

<sup>1</sup> Investors should consider the investment objectives, risks, charges, and expenses carefully before investing. The Prospectus contains this and other information about Leuthold Funds. For a current Prospectus, call toll-free 800-273-6886, or go to [www.LWCM.com](http://www.LWCM.com). Please read the Prospectus carefully before you invest.

<sup>2</sup> Investors should consider the investment objectives, risks, charges, and expenses carefully before investing. The Prospectus contains this and other information about the Fund. For a current Prospectus, call toll-free 866-306-8117, or go to [www.LWCM.com](http://www.LWCM.com). Please read the Prospectus carefully before you invest.

Not FDIC Insured ~ No Bank Guarantee ~ May Lose Value  
Leuthold Funds and Leuthold Core ETF are distributed by Compass Distributors, LLC  
DOFU: 07.22.2022

On the front cover is a rendering of Minneapolis' iconic Stone Arch Bridge which spans St. Anthony Falls. Completed in 1883 for James J. Hill's St. Paul, Minneapolis, and Manitoba Railway (later the Great Northern Railroad Company), it is the only bridge of its kind to span the Mississippi River.

Designed by Colonel Charles Smith, most engineers at the time were dubious that a masonry bridge with such a curve, as it has, would have the strength required to withstand the weight and vibrations of the trains. However, the final design, built of locally-quarried Platteville limestone, St. Cloud granite, and magnesium limestone from Stone City, Iowa, has proved to be strong and durable.

The Stone Arch Bridge served as a working railroad bridge until 1965. Today, the bridge accommodates pedestrians, bicyclists, and the River City Trolley.



## LEUTHOLD GROUP OVERVIEW

The Leuthold Group was established by the founding partners to pursue independent financial market research and investment solutions as a service for other professionals in the field. The aim is to provide thought-provoking objective analysis, unsullied by the potential biases and motives of the Wall Street establishment.

We are experienced investors employing quantitative tools that have common links across the majority of our strategies. We incorporate technical and fundamental components, a balance of momentum and growth with value considerations, and the integration of our firm's expertise in industry group analysis.

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The Leuthold Group's ETF portfolios were introduced to expand the breadth of instruments available for

investors, and further develop channels to implement the firm's best ideas.

We are:

- Pioneers in industry group/sector rotation.
- Highly regarded for our time-tested actively-managed asset allocation.
- Veterans in a multi-faceted process for ETF due-diligence.
- Experienced in tracking and evaluating factors and factor cyclicity.

# overview

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# INVESTMENT PHILOSOPHY

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## Invest Where There Is Value; Sell Unnecessary Risk

We believe the most important investment decision is proper asset class selection, which requires a highly disciplined and unemotional approach to evaluating risk/reward potential. We adjust asset class exposure to reflect our view of the prospective opportunity and/or risk offered within each category.

Flexibility and discipline are central to

navigating the markets as conditions change.

Our formula for long-term survival and success is based on quantitative measures of value combined with recognition of fundamental and technical trends. A good dose of contrary opinion is also an important component.

## Three Building Blocks For Investment Decisions

### Value Recognition

Identify areas of overvaluation and undervaluation.

### Trend Analysis

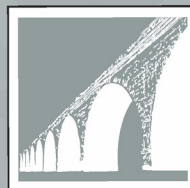
Distinguish investable themes, concepts, and underlying trends as the market environment evolves.

### Leadership Expectations

Recognize emerging leadership and non-consensus ideas; develop positions during the early stages.



# LEUTHOLD TARGETED RISK STRATEGY / PROCESS



THE LEUTHOLD GROUP

# LEUTHOLD TARGETED RISK

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## PHILOSOPHY

We believe that positioning one's core assets in a relatively stable blend of the basic asset classes is a sensible and simple approach to realize optimal results over time. The proportion of one's portfolio earmarked for preservation of capital, income, and growth will vary from person to person. Establish-

ing the best portfolio mix should be based on one's end-goal over time and risk/volatility comfort level. Central to this are value and growth mechanisms from our nearly 40 years of independent research, which will drive superior results over time.

## STRATEGY

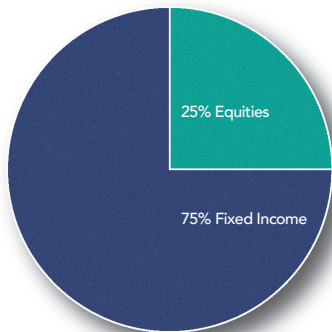
- Three portfolios assembled to achieve key objectives and risk dispositions.
- Based on the risk profile, each portfolio is benchmarked to its respective blend of MSCI ACWI (equities) and Bloomberg Barclays U.S. Aggregate (fixed income).
- Disciplined, unemotional method employed to maintain partiality with investment selection.
- Strategic in nature, portfolio adjustments will be moderate and infrequent.
- Asset class weighting is centered on the base proportions for each risk profile, but may deviate in any direction if market conditions warrant.
- Portfolio tilts away from the target mix will be incorporated in small degrees when portfolio managers identify openings to enrich the opportunity set.

## RISK PROFILES

### Target Allocations

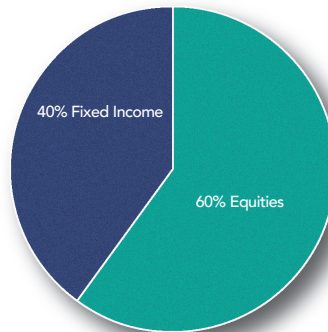
#### CONSERVATIVE

25% EQUITIES / 75% FIXED INCOME



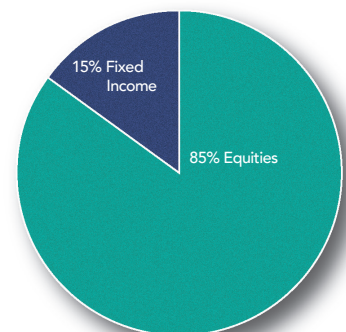
#### MODERATE

60% EQUITIES / 40% FIXED INCOME



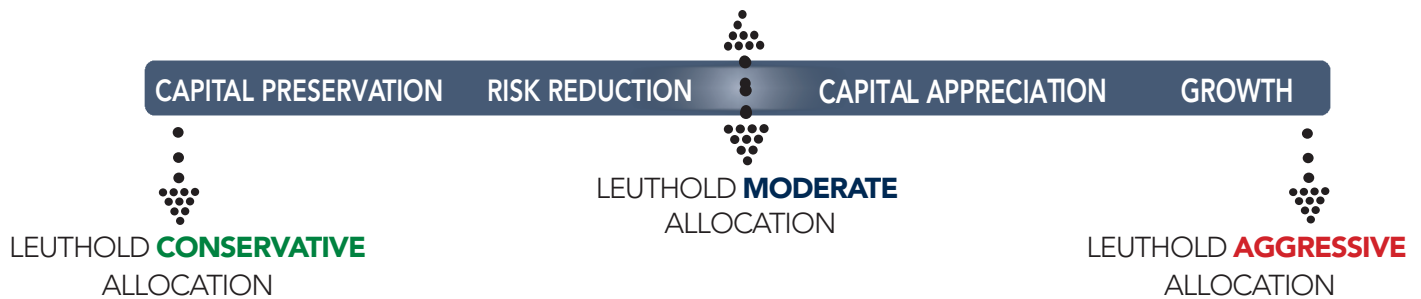
#### AGGRESSIVE

85% EQUITIES / 15% FIXED INCOME



# LEUTHOLD TARGETED RISK

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## INVESTMENT DECISION MAKING PROCESS

- Evaluate opportunities and potential risk offered by the investment subsets underlying each broad asset class, which will change as the market cycle evolves.
- Utilize fundamental and quantitative tools that were developed and refined over the last 30+ years while managing clients' tactical allocation portfolios.
- Based on the current macro-economic viewpoint of the asset allocation committee, broad asset classes are assigned ratings of neutral, defensive, or aggressive.
- Asset class positions are measured relative to each portfolio's benchmark and scaled according to the committee's level of conviction.
- Sectors, Regions, factors, and other narrower opportunities have neutral weights of zero and are considered on their individual merits.

## PORTFOLIO CONSTRUCTION PROCESS

- Open architecture.
- Invest in core funds with a sprinkling of high-conviction satellite positions that reflect distinctive market opportunities.
- Once the strategic and tactical tilts are determined, a rigorous due diligence/fund-selection process is performed to identify each ETF that will best capture the intended positions.
- Holdings and exposures within ETFs identified as suitable are then cross-referenced across each other to ensure the combined roster provides the proper exposures, avoiding overlaps or gaps caused by index-specific definitions.
- The vetting process isolates the true underlying definition and design of each ETF, as those in the same asset class often diverge significantly from their definitions.
- Actively overweight and underweight tactical positions to reflect the return/risk/conviction of portfolio management analysis.
- Largest active tilts are assigned to assets demonstrating market leadership, have attractive valuation, and improving technicals.

## EXCHANGE-TRADED FUND DUE DILIGENCE

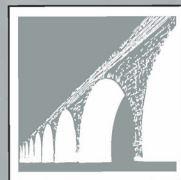
- Index design
- Portfolio construction rules
- Holdings
- Return Patterns
- Risk measures
- AUM
- Liquidity
- Expenses





# 2

## LEUTHOLD TARGETED RISK ETF PORTFOLIOS

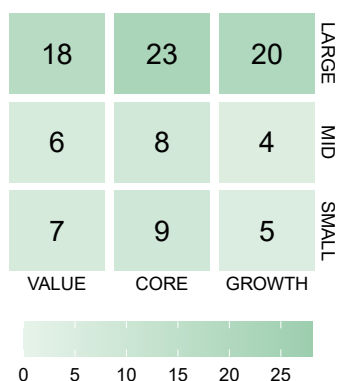


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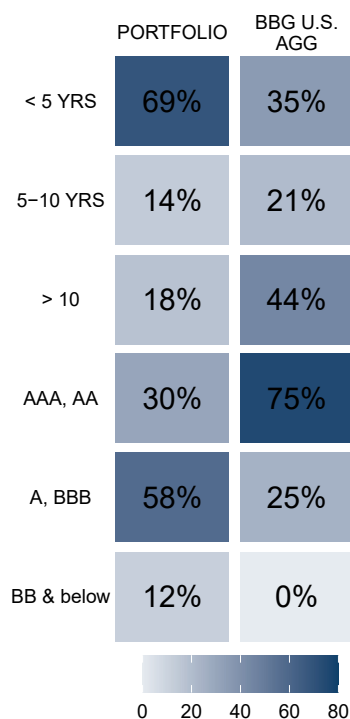
# CONSERVATIVE ALLOCATION

## CHARACTERISTICS (06.30.23\*)

### EQUITY INVESTMENT STYLE



### FIXED INCOME INVESTMENT STYLE



### VALUATION MULTIPLES

|                   | PORTFOLIO | S&P 500 |
|-------------------|-----------|---------|
| Price / Earnings  | 15.4x     | 16.8x   |
| Price / Book      | 2.4x      | 2.5x    |
| Price / Sales     | 1.4x      | 1.7x    |
| Price / Cash Flow | 8.7x      | 9.9x    |
| Dividend Yield    | 2.8%      | 2.4%    |

### MARKET CAPITALIZATION

|           | PORTFOLIO% | S&P 500% |
|-----------|------------|----------|
| Large Cap | 61.1       | 79.9     |
| Mid Cap   | 18.6       | 19.8     |
| Small Cap | 20.3       | 0.3      |

### STOCK SECTORS

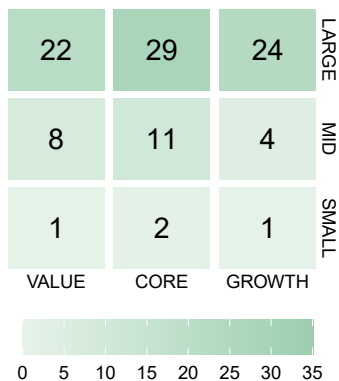
|                        | PORTFOLIO%  | S&P 500%    |
|------------------------|-------------|-------------|
| <b>DEFENSIVE</b>       | <b>23.5</b> | <b>21.9</b> |
| Consumer Defensive     | 8.2         | 7.3         |
| Health Care            | 12.7        | 11.9        |
| Utilities              | 2.6         | 2.8         |
| <b>SENSITIVE</b>       | <b>40.6</b> | <b>44.6</b> |
| Communication Services | 5.3         | 7.3         |
| Energy                 | 4.6         | 4.6         |
| Industrials            | 14.7        | 10.6        |
| Technology             | 16.0        | 22.1        |
| <b>CYCLICAL</b>        | <b>35.9</b> | <b>33.5</b> |
| Basic Materials        | 5.3         | 4.6         |
| Consumer Cyclical      | 11.8        | 11.3        |
| Financial Services     | 15.3        | 15.3        |
| Real Estate            | 3.5         | 2.3         |

\*Source: Morningstar Direct

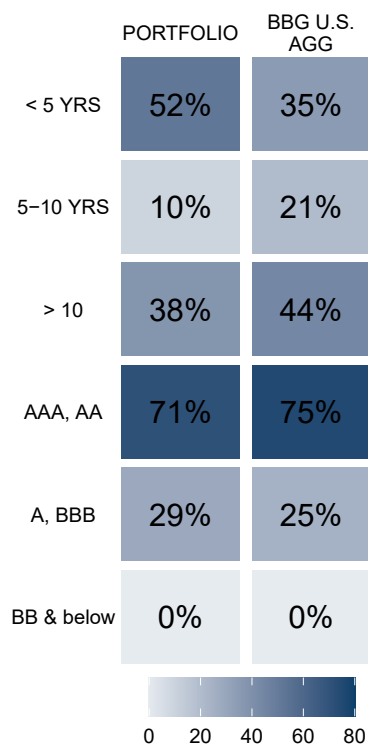
# MODERATE ALLOCATION

## CHARACTERISTICS (06.30.23\*)

### EQUITY INVESTMENT STYLE



### FIXED INCOME INVESTMENT STYLE



### VALUATION MULTIPLES

|                   | PORTFOLIO | S&P 500 |
|-------------------|-----------|---------|
| Price / Earnings  | 16.2x     | 16.8x   |
| Price / Book      | 2.5x      | 2.5x    |
| Price / Sales     | 1.6x      | 1.7x    |
| Price / Cash Flow | 9.4x      | 9.9x    |
| Dividend Yield    | 2.7%      | 2.4%    |

### MARKET CAPITALIZATION

|           | PORTFOLIO% | S&P 500% |
|-----------|------------|----------|
| Large Cap | 73.9       | 79.9     |
| Mid Cap   | 22.7       | 19.8     |
| Small Cap | 3.5        | 0.3      |

### STOCK SECTORS

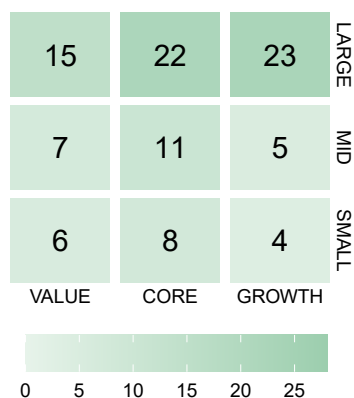
|                        | PORTFOLIO%  | S&P 500%    |
|------------------------|-------------|-------------|
| <b>DEFENSIVE</b>       | <b>23.7</b> | <b>21.9</b> |
| Consumer Defensive     | 7.9         | 7.3         |
| Health Care            | 12.5        | 11.9        |
| Utilities              | 3.4         | 2.8         |
| <b>SENSITIVE</b>       | <b>41.5</b> | <b>44.6</b> |
| Communication Services | 6.2         | 7.3         |
| Energy                 | 5.1         | 4.6         |
| Industrials            | 11.9        | 10.6        |
| Technology             | 18.3        | 22.1        |
| <b>CYCLICAL</b>        | <b>34.8</b> | <b>33.5</b> |
| Basic Materials        | 5.3         | 4.6         |
| Consumer Cyclical      | 9.8         | 11.3        |
| Financial Services     | 16.7        | 15.3        |
| Real Estate            | 3.1         | 2.3         |

\*Source: Morningstar Direct

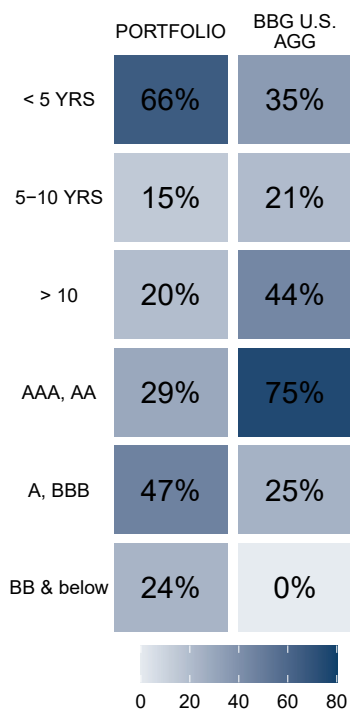
# AGGRESSIVE ALLOCATION

## CHARACTERISTICS (06.30.23\*)

### EQUITY INVESTMENT STYLE



### FIXED INCOME INVESTMENT STYLE



### VALUATION MULTIPLES

|                   | PORTFOLIO | S&P 500 |
|-------------------|-----------|---------|
| Price / Earnings  | 16.1x     | 16.8x   |
| Price / Book      | 2.6x      | 2.5x    |
| Price / Sales     | 1.6x      | 1.7x    |
| Price / Cash Flow | 9x        | 9.9x    |
| Dividend Yield    | 2.6%      | 2.4%    |

### MARKET CAPITALIZATION

|           | PORTFOLIO% | S&P 500% |
|-----------|------------|----------|
| Large Cap | 59.8       | 79.9     |
| Mid Cap   | 22.8       | 19.8     |
| Small Cap | 17.4       | 0.3      |

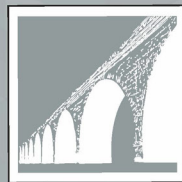
### STOCK SECTORS

|                        | PORTFOLIO%  | S&P 500%    |
|------------------------|-------------|-------------|
| <b>DEFENSIVE</b>       | <b>22.9</b> | <b>21.9</b> |
| Consumer Defensive     | 7.6         | 7.3         |
| Health Care            | 11.8        | 11.9        |
| Utilities              | 3.5         | 2.8         |
| <b>SENSITIVE</b>       | <b>41.8</b> | <b>44.6</b> |
| Communication Services | 6.3         | 7.3         |
| Energy                 | 4.7         | 4.6         |
| Industrials            | 12.5        | 10.6        |
| Technology             | 18.3        | 22.1        |
| <b>CYCLICAL</b>        | <b>35.3</b> | <b>33.5</b> |
| Basic Materials        | 5.6         | 4.6         |
| Consumer Cyclical      | 11.2        | 11.3        |
| Financial Services     | 14.3        | 15.3        |
| Real Estate            | 4.1         | 2.3         |

\*Source: Morningstar Direct

# 3

## PERFORMANCE



THE LEUTHOLD GROUP

# LEUTHOLD TARGETED RISK

## LEUTHOLD CONSERVATIVE ALLOCATION STRATEGY

(Composite Performance as of June 30, 2023)

|                                    | JUNE 2023 | Q2 2023 | YTD   | 1-YEAR | 3-YEAR | 5-YEAR | INCEPTION 01.01.17 |
|------------------------------------|-----------|---------|-------|--------|--------|--------|--------------------|
| GROSS OF FEES                      | 1.63%     | 1.20%   | 3.94% | 5.54%  | 3.79%  | 4.27%  | 4.68%              |
| NET OF FEES                        | 1.58%     | 1.08%   | 3.68% | 5.02%  | 3.27%  | 3.74%  | 4.15%              |
| 25% EQUITIES/<br>75% FIXED INCOME* | 1.16%     | 0.91%   | 5.03% | 3.39%  | -0.07% | 2.96%  | 3.34%              |

## LEUTHOLD MODERATE ALLOCATION STRATEGY

(Composite Performance as of June 30, 2023)

|                                    | JUNE 2023 | Q2 2023 | YTD   | 1-YEAR | 3-YEAR | 5-YEAR | INCEPTION 01.01.17 |
|------------------------------------|-----------|---------|-------|--------|--------|--------|--------------------|
| GROSS OF FEES                      | 3.37%     | 3.12%   | 7.48% | 9.02%  | 7.62%  | 5.99%  | 7.23%              |
| NET OF FEES                        | 3.36%     | 3.07%   | 7.38% | 8.82%  | 7.20%  | 5.52%  | 6.75%              |
| 60% EQUITIES/<br>40% FIXED INCOME* | 3.31%     | 3.36%   | 9.17% | 9.51%  | 5.20%  | 5.59%  | 6.47%              |

## LEUTHOLD AGGRESSIVE ALLOCATION STRATEGY

(Composite Performance as of June 30, 2023)

|                                    | JUNE 2023 | Q2 2023 | YTD    | 1-YEAR | 3-YEAR | 5-YEAR | INCEPTION 01.01.17 |
|------------------------------------|-----------|---------|--------|--------|--------|--------|--------------------|
| GROSS OF FEES                      | 4.82%     | 4.02%   | 9.53%  | 12.81% | 10.87% | 7.53%  | 9.03%              |
| NET OF FEES                        | 4.77%     | 3.89%   | 9.26%  | 12.25% | 10.31% | 6.99%  | 8.48%              |
| 85% EQUITIES/<br>15% FIXED INCOME* | 4.87%     | 5.12%   | 12.15% | 13.90% | 8.95%  | 7.24%  | 8.54%              |

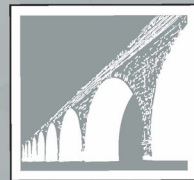
\* Equity benchmark: MSCI ACWI (net); Fixed Income benchmark: Bloomberg Barclays U.S. Aggregate. MSCI ACWI measures equity market performance of Developed and Emerging Markets. Bloomberg Barclays Global Aggregate provides a broad-based measure of global investment-grade fixed-rate debt markets.

The Leuthold Group was founded in 1981 as an independent investment research firm. In 1987, the firm registered an RIA subsidiary with the Securities and Exchange Commission and began to direct investment portfolios based on the financial analysis of their research. Historical performance reflected is for the Leuthold Tactical Allocation Conservative, Moderate, and Aggressive ETF Portfolio strategies. These are asset allocation strategies and utilize quantitative analysis in order to seek capital appreciation and/or growth. "Gross" performance results reflect the deduction of all transaction costs, but do not include custodial, investment advisory fees or other expenses. "Net" performance is an estimate that reflects the deduction of all transaction costs and investment advisory fees paid. For periods in the current quarter, net estimates are calculated based upon the highest investment advisory fee paid. The current month's gross performance is an estimate.

Returns presented for the strategies assume reinvestment of all dividends, interest, and realized gains. Gross Returns are presented before deduction of management and custodial fees, but after trading expenses. Past performance should not be considered predictive of future performance. As with any investment, there can be no assurance that the Adviser's investment objective will be achieved or that an investor will not lose a portion or all of his investment. The strategy composites were established on January 1, 2017.

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LEUTHOLD INVESTMENT  
PROFESSIONALS



THE LEUTHOLD GROUP

# INVESTMENT PROFESSIONALS

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## **SCOTT OPSAL, CFA**

Scott is a co-Portfolio Manager and the Director of Research & Equities for The Leuthold Group, LLC. His responsibilities include conducting in-depth research projects and exploring new fundamental and quantitative studies that support the firm's portfolios and strategy recommendations. Scott brings nearly forty years of professional investing experience to the Leuthold team, previously serving as Chief Investment Officer of Invista Capital Management and Head of Equities at Members Capital Advisors. Scott was also the Director of the Applied Investments Program and taught Security Analysis and investment classes at the University of Wisconsin–Whitewater.

In his leadership roles, Scott was involved in all aspects of firm management; establishing policies on risk management, asset allocation, quantitative techniques, institutional-grade research, and portfolio management processes. Previous portfolio management assignments include international equity, domestic equity, taxable investing, and convertible securities. His top-quartile and five-star performance records led to twice being named to *Barron's* "Top 100 Mutual Fund Managers." Scott received his undergraduate degree from Drake University in 1982 and an MBA from the University of Minnesota in 1983. He earned the Chartered Financial Analyst designation in 1986 and recently served on the Madison, WI, CFA Society Board of Directors.

## **CHUN WANG, CFA, PRM**

Chun is a Senior Analyst and co-Portfolio Manager. He is also a member of the asset allocation and investment strategy committees. In addition to portfolio management duties, Chun is a contributing writer to The Leuthold Group's highly regarded institutional publications.

Before joining the Leuthold team in June 2009, Chun was a Quantitative Equities Portfolio Manager and Head of Quantitative Research at LIM Advisors, a Hong-Kong based Asia-Pacific focused multi-strategy hedge fund. Prior to that, Chun was with Ned Davis Research for eleven years as Director of Research & Development, responsible for quantitative product development and a quantitative research publication called *Quantitative Review*. Chun also worked as an equity analyst with Shanghai International Securities in China.

In addition to his global experience, Chun has a BS degree in Economics from Xiamen University and an MS degree in Economics from the University of Florida. Chun holds several professional designations and certifications including the Chartered Financial Analyst (CFA), Professional Risk Manager (PRM), Certified JAVA Programmer, SAS Certified Professional, and the Certificate in Financial Engineering from UC Berkeley.

## **DOUG RAMSEY, CFA, CMT**

Doug is the Chief Investment Officer of The Leuthold Group, LLC, and co-Portfolio Manager of the Leuthold Core Investment Portfolio and the Leuthold Global Portfolio. In addition to his CIO and Portfolio Management responsibilities heading both the asset allocation and investment strategy committees, Doug maintains the firm's proprietary Major Trend Index—a multi-factor model that evaluates the underlying health of the markets, both domestically and globally. He is the lead writer for The Leuthold Group's highly regarded institutional research publication.

Doug is an accomplished speaker and has presented at a range of engagements, including the Morningstar Investment Conference, national CFA societies, Minnesota CPA Society, Minneapolis Business Bank, and a variety of advisor and private client events throughout the country. Additionally, Doug is frequently used as a resource by the financial press, including appearances on CNBC and Bloomberg TV; he is often quoted in the media, such as *Barron's* and *The Wall Street Journal*, and is referred to by the leading trade journals for a variety of topics. He is a member of the Charles Dow Award Committee, and the Market Technicians Association.

Before joining the Leuthold team, Doug was Chief Investment Officer of Treis Capital in Des Moines, Iowa, where he managed equity portfolios and published a quantitative equity research product. Prior to that he worked at Principal Global Investors. Doug is a Phi Beta Kappa graduate of Coe College in Cedar Rapids, Iowa, where he earned a Bachelor degree in Economics and Business Administration. He played four years of varsity basketball at Coe, earning Academic All-America honors in 1986-87. Doug received an MA degree in Economics from The Ohio State University in 1990; he earned his CFA designation in 1996 and became a Chartered Market Technician in 2003.

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expertise



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**GREG SWENSON, CFA**

Greg is a co-Portfolio Manager, a member of the investment strategy committee, and contributing analyst for The Leuthold Group's institutional research publications. He joined The Leuthold Group in 2006 to aid in the development of the Global Industries equity framework and continues to monitor and enhance the quantitative disciplines that drive Leuthold's equity strategies.

Before joining The Leuthold Group, he worked for FactSet Research Systems in Chicago as a Consultant and Account Executive. While working for FactSet Greg worked extensively with the research team at Leuthold. Greg is a CFA charterholder and graduated with honors from the University of Iowa with a Bachelor of Business Administration in Finance.

**PHILIP SEGNER, CFA**

Phil is a Senior Analyst and co-Portfolio Manager of the Grizzly Short Fund. Phil originally joined The Leuthold Group, LLC, in 2010 as a Trader and in 2013 he added on the role of Research Analyst. In addition, Phil is a significant contributor to Leuthold research publications.

Prior to joining the Leuthold team, Phil worked in Trading and Operations for two Minneapolis-area hedge funds. Phil has a BA in Finance from Gustavus Adolphus College and an MBA from the University of Minnesota. He has been a CFA charterholder since 2013 and is a member of the CFA Society of Minnesota.

**JOHN MUELLER, CFA**

John joined The Leuthold Group, LLC, in 2001. In addition to his role as co-CEO, John is responsible for marketing and sales of our asset management products to institutional and high-net-worth clients. Previous to his current role, John worked on marketing and selling the Leuthold institutional research products.

Prior to joining Leuthold, John spent over ten years in various roles within U.S. Bancorp Piper Jaffray. During the last five years (from 1997-2001), John served as a Vice President in the Institutional Financial Services division with relationship management responsibilities. John has a BA in Economics from St. John's University, and an MBA from The University of St. Thomas. John is a CFA charterholder and a member of the CFA Society of Minnesota.

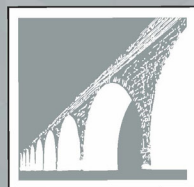
**JEFF LEADHOLM**

Jeff joined The Leuthold Group in 1998. In addition to his role as co-CEO, Jeff works with our institutional research clients. Jeff has spent the majority of his career involved in the investment/finance industry, both on the west coast and in the Midwest.

Prior to joining Leuthold, Jeff spent seven years as a San Francisco-based Vice President of Sales for Standard & Poor's; prior to that, he worked for a variety of pension fund and valuation consulting firms in Chicago and San Francisco. Jeff has a BA in Economics and International Relations as well as an MBA in Finance, both from the University of Wisconsin–Madison.

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**COMPOSITE + SUPPLEMENTAL  
PERFORMANCE  
GIPS**



**THE LEUTHOLD GROUP**

# LEUTHOLD CONSERVATIVE ALLOCATION ETF

Assets managed under the Leuthold Conservative Allocation ETF discipline were \$0.05 million as of 12/31/2022.

|        | Calendar year total return (gross) | Calendar year total return (net) | Benchmark return** | Composite 3-Yr St Dev | Benchmark 3-Yr St Dev | Number of accounts at period end | Composite dispersion | Composite assets at period end (in millions) | Percent of firm assets |
|--------|------------------------------------|----------------------------------|--------------------|-----------------------|-----------------------|----------------------------------|----------------------|--|------------------------|
| 2022   | -8.27%                             | -8.73%                           | -13.76%            | 8.00                  | 8.01                  | 1                                | **                   | \$0.05                                       | 0.00%                  |
| 2021   | 7.70%                              | 7.16%                            | 3.27%              | 6.21                  | 4.93                  | 1                                | **                   | \$0.07                                       | 0.01%                  |
| 5-Year | 7.14%                              | 6.60%                            | -                  | -                     | -                     | -                                | -                    | -  | -                      |
| 2020   | 9.44%                              | 8.89%                            | 10.52%             | 6.39                  | 5.19                  | 1                                | **                   | \$0.07                                       | 0.01%                  |
| 2019   | 11.27%                             | 10.71%                           | 13.08%             | 3.06                  | 3.27                  | 1                                | **                   | \$0.06                                       | 0.01%                  |
| 2018   | -1.85%                             | -2.34%                           | -2.27%             | **                    | 3.24                  | 1                                | **                   | \$0.05                                       | 0.00%                  |
| 2017   | 9.65%                              | 9.10%                            | 8.36%              | **                    | 3.19                  | 1                                | **                   | \$0.05                                       | 0.00%                  |

## COMPOSITE DESCRIPTION

The Leuthold Conservative Allocation ETF Portfolio Composite consists of all private accounts, as well as accounts used to hold Firm assets, managed as Leuthold Conservative Allocation ETF Portfolio accounts. The strategy seeks capital appreciation and income (or "total return"). The target risk mandate for the strategy is 25% MSCI ACWI and 75% Barclays US Aggregate. The strategy may deviate modestly from its benchmark asset allocation, and will also blend in a limited number of best idea positions from the Adviser's broad research insights. The strategy utilizes many of the same fundamental and quantitative tools that have been used in the management of Leuthold's tactical asset allocation portfolios since 1987. The firm's current macro-economic views are used to identify and implement tactical tilts in the strategy. Numerous asset class decisions are evaluated, and then a neutral, defensive, or aggressive stance is selected for each. These asset class decisions are scaled according to the Adviser's level of conviction. Non-proprietary ETFs are then selected to establish the desired allocation. Portfolio weightings are centered on the 25%/75% asset class mix noted above, but deviate from that target in any direction based on market conditions.

The adviser to Leuthold strategies, Leuthold Weeden Capital Management, has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS®). It has been verified for the period of January 1, 2017 through December 31, 2022 by Ernst & Young, LLP. A copy of the verification report is available upon request.

Verification assesses whether: (1) the firm has complied with all the composite-construction requirements of the GIPS standards on a firm-wide basis; and, (2) the firm's policies and procedures are designed to calculate and present performance in compliance with the GIPS standards. Verification does not ensure the accuracy of any specific composite presentation. The verification report is available upon request.

## NOTES:

1. Leuthold Weeden Capital Management (LWCM or the "Firm") is a federally registered investment adviser founded in 1987.
2. Inception date of the composite is January 1, 2017.
3. Creation date of the composite is January 1, 2017.
4. Investment transactions are recorded on trade date; returns are presented in U.S. dollars. Performance results include interest on deposit and dividends earned.
5. Returns are time-weighted; monthly results are geometrically linked. Composite returns are asset-weighted using beginning of period market values.
6. The composite dispersion is the equal-weighted standard deviation of annual returns for accounts in the composite the entire year.
7. Gross returns are presented before the deduction of management and custodial fees and the impact of income taxes but after all trading expenses. Annual management fees are 50 bps for SMA platforms and 35 bps for UMA Platforms.
8. A complete list and description of the Firm's composites and performance is available upon request.
9. New accounts are added to the composite their first complete month of being fully invested. Terminated accounts are included through the final full month of investment.
10. There is no minimum account size for inclusion in the composite.
11. Policies for valuing portfolios, calculating performance, and preparing compliant presentations are available from LWCM upon request.
12. The three-year annualized standard deviation represents the variability of the composite and the benchmark returns over the preceding 36-month period. The standard deviation is not required to be presented for periods prior to 2011.

† Not examined by Independent Public Accountants.

\* The primary comparison benchmark is the 25% MSCI ACWI (net)/75% Bloomberg Barclays U.S. Aggregate Bond Index.

- MSCI ACWI is designed to measure global equity market performance of Developed and Emerging Markets. Performance is net of foreign tax withholding.
- Bloomberg Barclays U.S. Aggregate provides a broad-based measure of U.S. investment grade fixed-rate debt markets.
- MSCI ACWI and Bloomberg Barclays U.S. Aggregate are indexes and cannot be invested in directly.

\*\* Fewer than two accounts were included in the composite for the full year.

Past performance does not guarantee future results.

# LEUTHOLD MODERATE ALLOCATION ETF

Assets managed under the Leuthold Moderate Allocation ETF Portfolio discipline were \$25.3 million as of 12/31/2022.

|               | Calendar year total return (gross) | Calendar year total return (net) | Benchmark return <sup>†*</sup> | Composite 3-Yr St Dev | Benchmark 3-Yr St Dev | Number of accounts at period end | Composite dispersion | Composite assets at period end (in millions) | Percent of firm assets |
|---------------|------------------------------------|----------------------------------|--------------------------------|-----------------------|-----------------------|----------------------------------|----------------------|--|------------------------|
| <b>2022</b>   | <b>-13.01%</b>                     | <b>-13.31%</b>                   | <b>-15.61</b>                  | <b>14.05</b>          | <b>13.15</b>          | <b>2</b>                         | <b>**</b>            | <b>\$25.39</b>                               | <b>2.26%</b>           |
| <b>2021</b>   | <b>14.03%</b>                      | <b>13.46%</b>                    | <b>10.24%</b>                  | <b>11.32</b>          | <b>10.16</b>          | <b>1</b>                         | <b>**</b>            | <b>\$0.08</b>                                | <b>0.01%</b>           |
| <b>5-Year</b> | <b>10.98%</b>                      | <b>10.42%</b>                    | <b>-</b>                       | <b>-</b>              | <b>-</b>              | <b>-</b>                         | <b>-</b>             | <b>-</b>                                     | <b>-</b>               |
| <b>2020</b>   | <b>12.22%</b>                      | <b>11.66%</b>                    | <b>13.94%</b>                  | <b>11.94</b>          | <b>10.92</b>          | <b>1</b>                         | <b>**</b>            | <b>\$0.07</b>                                | <b>0.01%</b>           |
| <b>2019</b>   | <b>17.60%</b>                      | <b>17.01%</b>                    | <b>19.11%</b>                  | <b>6.72</b>           | <b>6.66</b>           | <b>1</b>                         | <b>**</b>            | <b>\$0.07</b>                                | <b>0.01%</b>           |
| <b>2018</b>   | <b>-5.48%</b>                      | <b>-5.95%</b>                    | <b>-5.55%</b>                  | <b>**</b>             | <b>6.30</b>           | <b>1</b>                         | <b>**</b>            | <b>\$0.06</b>                                | <b>0.00%</b>           |
| <b>2017</b>   | <b>18.35%</b>                      | <b>17.75%</b>                    | <b>15.42%</b>                  | <b>**</b>             | <b>6.21</b>           | <b>1</b>                         | <b>**</b>            | <b>\$0.06</b>                                | <b>0.00%</b>           |

## COMPOSITE DESCRIPTION

The Leuthold Moderate Allocation ETF Portfolio Composite consists of all private accounts, as well as accounts used to hold Firm assets, managed as Leuthold Moderate Allocation ETF Portfolio accounts. The strategy seeks capital appreciation and income (or "total return"). The target risk mandate for the strategy is 60% MSCI ACWI and 40% Barclays US Aggregate. The strategy may deviate modestly from its benchmark asset allocation, and will also blend in a limited number of best idea positions from the Adviser's broad research insights. The strategy utilizes many of the same fundamental and quantitative tools that have been used in the management of Leuthold's tactical asset allocation portfolios since 1987. The firm's current macro-economic views are used to identify and implement tactical tilts in the strategy. Numerous asset class decisions are evaluated, and then a neutral, defensive, or aggressive stance is selected for each. These asset class decisions are scaled according to the Adviser's level of conviction. Non-proprietary ETFs are then selected to establish the desired allocation. Portfolio weightings are centered on the 60%/40% asset class mix noted above, but deviate from that target in any direction based on market conditions.

The adviser to Leuthold strategies, Leuthold Weeden Capital Management, has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS®). The Leuthold Moderate Allocation ETF Portfolio Composite has been verified for the period of January 1, 2017 through December 31, 2022 by Ernst & Young, LLP. A copy of the verification report is available upon request.

Verification assesses whether: (1) the firm has complied with all the composite-construction requirements of the GIPS standards on a firm-wide basis; and, (2) the firm's policies and procedures are designed to calculate and present performance in compliance with the GIPS standards. Verification does not ensure the accuracy of any specific composite presentation. The verification report is available upon request.

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† Not examined by Independent Public Accountants.

\* The primary comparison benchmark is the 60% MSCI ACWI (net)/40% Bloomberg Barclays U.S. Aggregate Bond Index.

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\*\* Fewer than two accounts were included in the composite for the full year.

Past performance does not guarantee future results.

# LEUTHOLD AGGRESSIVE ALLOCATION ETF

Assets managed under the Leuthold Aggressive Allocation ETF Portfolio discipline were \$0.05 million as of 12/31/2022.

|               | Calendar year total return (gross) | Calendar year total return (net) | Benchmark return <sup>†*</sup> | Composite 3-Yr St Dev | Benchmark 3-Yr St Dev | Number of accounts at period end | Composite dispersion | Composite assets at period end (in millions) | Percent of firm assets |
|---------------|------------------------------------|----------------------------------|--------------------------------|-----------------------|-----------------------|----------------------------------|----------------------|--|------------------------|
| <b>2022</b>   | -14.13%                            | -14.55%                          | -17.13%                        | 17.48                 | 17.28                 | 1                                | **                   | \$0.05                                       | 0.00%                  |
| <b>2021</b>   | 18.52%                             | 17.92%                           | 15.39%                         | 14.71                 | 14.30                 | 1                                | **                   | \$0.09                                       | 0.01%                  |
| <b>5-Year</b> | 13.26%                             | 12.69%                           | 18.47%                         | -                     | -                     | -                                | -                    | -  | -                      |
| <b>2020</b>   | 13.51%                             | 12.95%                           | 15.72%                         | 15.64                 | 15.39                 | 1                                | **                   | \$0.08                                       | 0.01%                  |
| <b>2019</b>   | 22.19%                             | 21.57%                           | 23.49%                         | 9.23                  | 9.47                  | 1                                | **                   | \$0.07                                       | 0.01%                  |
| <b>2018</b>   | -7.65%                             | -8.11%                           | -7.95%                         | **                    | 8.88                  | 1                                | **                   | \$0.06                                       | 0.00%                  |
| <b>2017</b>   | 22.76%                             | 22.14%                           | 20.71%                         | **                    | 8.77                  | 1                                | **                   | \$0.06                                       | 0.00%                  |

## COMPOSITE DESCRIPTION

The Leuthold Aggressive Allocation ETF Portfolio Composite consists of all private accounts, as well as accounts used to hold Firm assets, managed as Leuthold Aggressive Allocation ETF Portfolio accounts. The strategy seeks capital appreciation and income (or "total return"). The target risk mandate for the strategy is 85% MSCI ACWI and 15% Barclays US Aggregate. The strategy may deviate modestly from its benchmark asset allocation, and will also blend in a limited number of best idea positions from the Adviser's broad research insights. The strategy utilizes many of the same fundamental and quantitative tools that have been used in the management of Leuthold's tactical asset allocation portfolios since 1987. The firm's current macro-economic views are used to identify and implement tactical tilts in the strategy. Numerous asset class decisions are evaluated, and then a neutral, defensive, or aggressive stance is selected for each. These asset class decisions are scaled according to the Adviser's level of conviction. Non-proprietary ETFs are then selected to establish the desired allocation. Portfolio weightings are centered on the 85%/15% asset class mix noted above, but deviate from that target in any direction based on market conditions.

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