



THE LEUTHOLD GROUP



LEUTHOLD **CORE ETF**

4Q24  
12.31.2024

# LEUTHOLD PRODUCT SUMMARY

	PRODUCT	VEHICLE	MINIMUM	TICKER INCEPTION	BENCHMARK INVESTMENT
Tactical Asset Allocation	<b>Leuthold Core Investment</b>				
	6/1/87	Separate Account	\$2,000,000		S&P 500; Morningstar
	11/20/95	Mutual Fund <sup>1</sup>	\$10,000	LCORX	Tactical Allocation category;
	1/31/06	Mutual Fund (Institutional) <sup>1</sup>	\$1,000,000	LCRIX	Bloomberg Global Agg. Index
	12/1/18	Separate Account (ETFs)	\$50,000		
	1/6/20	ETF <sup>1</sup>		LCR	
	<b>Leuthold Global</b>				
	7/1/08	Mutual Fund <sup>1</sup>	\$10,000	GLBLX	MSCI ACWI; Bloomberg Global
	4/30/08	Mutual Fund (Institutional) <sup>1</sup>	\$1,000,000	GLBIX	Agg. Index; S&P 500
	<b>Leuthold Global Tactical ETF Strategy</b>				
12/29/2016	SMA/UMA	\$50,000		60% ACWI/40% Bbg. U.S. Agg*	
<b>Leuthold Conservative Allocation ETF Strategy</b>					
12/29/2016	SMA/UMA	\$50,000		25% ACWI/75% Bbg. U.S. Agg*	
<b>Leuthold Moderate Allocation ETF Strategy</b>					
12/29/2016	SMA/UMA	\$50,000		60% ACWI/40% Bbg. U.S. Agg*	
<b>Leuthold Aggressive Allocation ETF Strategy</b>					
12/29/2016	SMA/UMA	\$50,000		85% ACWI/15% Bbg. U.S. Agg*	
Long Only	<b>Leuthold Select Industries</b>				
	1/1/96	Separate Account	\$1,000,000		S&P 500; S&P MidCap 400;
	6/19/00	ETF <sup>1</sup>		LST	Morningstar Mid-Cap Blend category; S&P SmallCap 600
	<b>Leuthold Global Industries L.P.</b>				
	12/27/06	Limited Partnership	\$1,000,000		MSCI ACWI*
	<b>Leuthold Sector Rotation Strategy</b>				
5/10/16	SMA/UMA	\$50,000		S&P 500*	
<b>Leuthold Enhanced Sector Rotation Strategy</b>					
5/10/16	SMA/UMA	\$50,000		S&P 500*	
<b>Leuthold Factor Tilt Strategy</b>					
12/28/17	SMA/UMA	\$50,000		S&P 500*	
Short Only	<b>AdvantHedge</b>				
	11/1/90	Separate Account	\$10,000,000		S&P 500; S&P MidCap 400 Index
	6/19/00	Mutual Fund <sup>1</sup>	\$10,000	GRZZX	

\*primary

<sup>1</sup> Investors should consider the investment objectives, risks, charges, and expenses carefully before investing. The Prospectus contains that and other information about Leuthold Funds and ETFs. For a current Mutual Fund Prospectus, call toll-free 800-273-6886; for a current Prospectus for the Leuthold ETFs call toll-free 866-306-8117 or go to [www.LWCM.com](http://www.LWCM.com). Please read the Prospectus carefully before you invest.

## Risks of Investing in Leuthold Funds

**Asset Allocation Risk:** A Fund may favor an asset category or investment strategy that performs poorly to other asset categories and investment strategies for short or long periods of time. **Foreign and Emerging Markets Securities Risk:** Investments in securities and instruments traded in developing- or emerging markets, or that provide exposure to such securities, can involve additional risks relating to political, economic, or regulatory conditions not associated with investment in U.S. securities and instruments. **Market Risks:** Common stocks are susceptible to general stock market fluctuations and to volatile increases and decreases in value as market confidence and perceptions of their issuers change. **Fixed Income Securities Risk:** Issuers of bonds may not be able to make interest or principal payments, or may suffer adverse changes in financial conditions that could lower their credit quality. **Quantitative Investment Approach Risk:** Funds utilize a quantitative investment approach. There may be market conditions where the quantitative investment approach performs poorly. **Managed Futures Strategy/Commodities Risk:** Investments in managed futures programs or commodities may subject an Underlying Investment to greater volatility than investments in traditional securities. **Sector Risk:** The Funds' investing approach may dictate an emphasis on certain sectors, industries, or sub-sectors of the market. Funds may invest more heavily in one sector, industry, or sub-sector; or may lack exposure to one or more sectors, which may adversely affect performance.

Not FDIC Insured ~ No Bank Guarantee ~ May Lose Value  
Leuthold Funds and ETFs are distributed by Quasar Distributors, LLC

DOFU: 01.24.2025



# LEUTHOLD GROUP

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## 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 with industry group analysis.



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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.

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# overview

# INVESTMENT

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## BUILDING BLOCKS

### **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

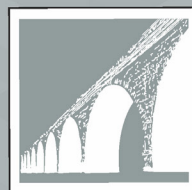
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invest where there is value  
sell unwarranted risk

1

# LEUTHOLD CORE ETF SMA



THE LEUTHOLD GROUP

# INVESTMENT

## PHILOSOPHY

### PHILOSOPHY

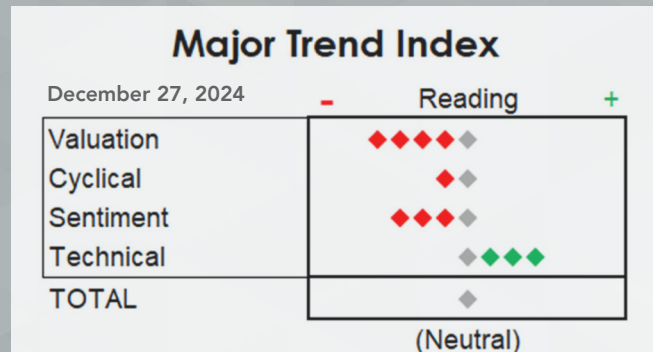
We believe that purchasing a collection of asset classes will provide steady growth and foster long-term investment success. Adding the element of flexibility toward portfolio weightings will complement the asset diversification and multiply the opportunities to make the most of special market and economic attributes that surface as business cycles evolve.

### STRATEGY

- 30% - 70% Equities
- 30% - 70% Fixed Income
- Tactical Allocation
- Asset Class Opportunities: Equities, Fixed Income, Alternatives (Commodities, REITs, Other)
- Benchmarks: S&P 500; Bloomberg Global Aggregate
- Domestic and global stock universe
- Fixed income vehicles are global in scope and span a wide spectrum of interest rates/credit/sector/FX
- Equity hedge employed, when needed, to manage risk
- Highly disciplined and unemotional

### MARKET STANCE

- The Major Trend Index (MTI): Quantitative evaluation of a multitude of factors comprising the categories of Valuation, Cyclical, Sentiment, and Technical.
- Designed to recognize major market trends rather than intermediate/short-term swings.
- The MTI is composed of around 130 individual sub-factors to assess the underlying health of the stock market.



## PORTFOLIO MANAGERS/

## EXPERIENCE



Doug Ramsey, CFA, CMT

Chief Investment Officer/  
Portfolio Manager

Industry  
Experience

33 years



Scott Opsal, CFA

Director of Research & Equities  
Portfolio Manager

40 years



Chun Wang, CFA, PRM

Portfolio Manager/  
Senior Analyst

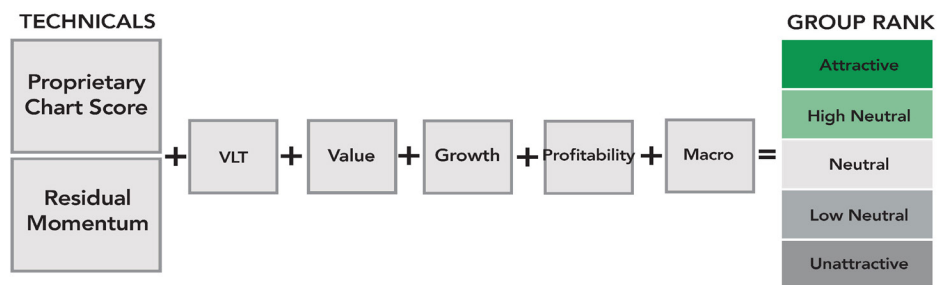
28 years

# PORTFOLIO

## CONSTRUCTION

### STOCK MARKET EXPOSURE

- Seek investable themes and trends that may persist 12 months or longer.
- Monthly evaluation of equity sector risk/reward potential based on our decades-long industry ratings and quantitative top-down approach.
- Industry rating categories: Value, Growth, Profitability, Technicals, and Very Long Term (VLT) Momentum.
- Resulting scores produce respective broad sectors' standings, rating from #1 (most attractive) to #11 (most unattractive).
- Top-five-rated sectors are purchased for the portfolio via sector ETFs.
- A sector position is held until it falls below the sixth-ranked spot.
- When a sector sale is triggered, it is replaced with the highest-rated sector not yet owned.
- Subject to availability, the portfolio will also purchase ETFs to represent underlying industry group exposures that appear attractive per our model.
- Developed and Emerging Market exposure is guided by an internally developed macro model.



	SECTOR ROTATION UNIVERSE
APPROXIMATE # OF GROUPS	110
GICS	LEVEL III AND IV
MARKET CAP	ALL CAP ( Largest 3,000 Companies)
GEOGRAPHY	DOMESTIC & ADRs
OTHER	S&P 1500 AUTOMATICALLY INCLUDED
TOTAL # OF COMPANIES	3,000

### FIXED INCOME EXPOSURE

- Top-down tactical framework employed to make specific investment decisions.
- Global universe.
- Examine risk allocation between interest rates and credits.
- Multi-factor inflation model determines proportions of nominal and inflation-linked government securities.
- Momentum + Relative Yield model generates a relative attractiveness rank among credit classes and assigns applicable weightings.
- Targeted exposure obtained through fixed income ETFs.

# DOMESTIC EQUITY SECTOR

## RANKINGS (DECEMBER 31, 2024)

SECTOR	ATTRACTIVE GROUPS	UNATTRACTIVE GROUPS
<b>Financials</b> 14 Groups	Asset Mgmt. & Custody Banks Big Financials Consumer Finance Developed Diversified Banks Investment Banking & Brokerage Life & Health Insurance Property & Casualty Insurance Regional Banks Reinsurance Transaction & Paymt. Processing	
<b>Communication Srv.</b> 10 Groups	Big Communication Services ↑ Cable & Satellite Interactive Media & Services Wireless Telecom Services	
<b>Consumer Discretionary</b> 17 Groups	Education Services ↑ Hotels & Leisure Specialized Consumer Srv.	Automobile Manufacturers Casinos & Gaming
<b>Information Technology</b> 13 Groups	Communications Equipment	Semiconductors Technology Distributors Tech. HW Storage & Periph.
<b>Utilities</b> 6 Groups		Multi-Utilities
<b>Consumer Staples</b> 9 Groups	Tobacco	Beverages Household Products Personal Care Products
<b>Health Care</b> 12 Groups	Health Care Distributors	Big Health Care ↓ Small/Micro Biotech ↓ Life Sciences Tools & Services
<b>Industrials</b> 19 Groups	Airlines ↑ Construction & Engineering Data ↑ Process. & Outsourced Srv.	Aerospace & Defense Cargo Ground Transportation ↓ Industrial Conglomerates Industrial Machinery Railroads
<b>Materials</b> 10 Groups	Precious Metals	Chemicals Steel
<b>Energy</b> 7 Groups		Oil & Gas Drilling Oil & Gas Refining & Marketing
<b>Real Estate</b> 2 Groups		↓ Real Estate Investment Trusts Real Estate Mgmt. & Dvlpmt.

↑ = Category Upgrade    ↓ = Category Downgrade

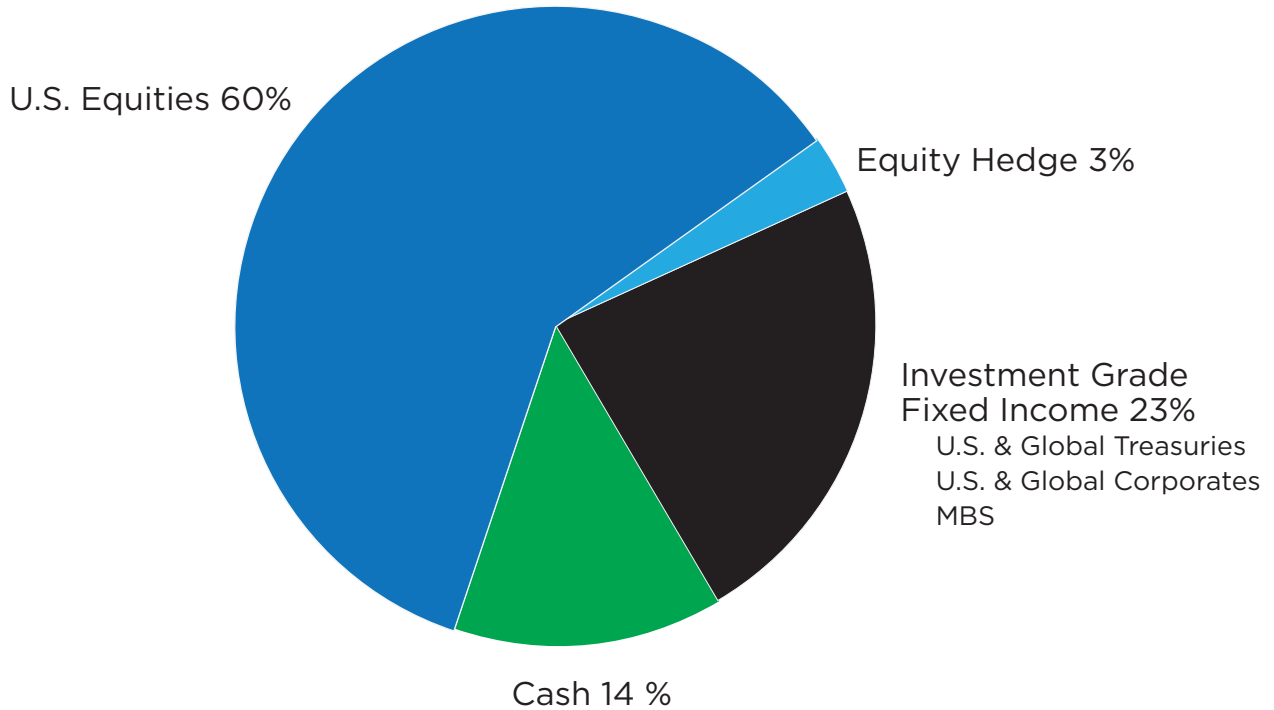


# ASSET

## ALLOCATION (12.31.24)



Morningstar Rating™ Overall among 232 Tactical Allocation funds as of 12.31.24 based on risk-adjusted returns.†



Allocations may not add up to 100% due to rounding. Holdings are subject to change.

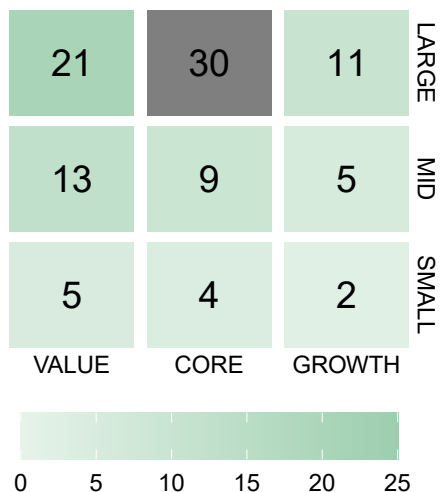
†Morningstar Rating™ or “star rating”: For funds with at least a 3-year history, a risk-adjusted-return measure is calculated to account for variation in monthly performance, placing more emphasis on downward variations and rewarding consistency. The top 10% of funds in each category receive 5 stars, next 22.5%=4 stars, next 35%=3 stars, next 22.5%=2 stars, and bottom 10%=1 star. The “Overall” Rating is derived from a weighted average of the 3-, 5-, and 10-year ratings (if applicable). Within the Tactical Allocation category, for the 3-, 5-, and 10-year periods, LCR is rated 5, NA, and NA stars, among 232, NA, and NA funds. ©2024 Morningstar, Inc. All Rights Reserved. The information contained herein: (1) is proprietary to Morningstar and/or its content providers; (2) may not be copied or distributed; and (3) is not warranted to be accurate, complete, or timely. Neither Morningstar nor its content providers are responsible for any damages or losses arising from any use of this information.

Leuthold Funds' adviser pays a license fee for the use of Morningstar Ratings.™

# DOMESTIC EQUITY

## CHARACTERISTICS\* (12.31.24)

### EQUITY INVESTMENT STYLE



### MARKET CAPITALIZATION

	PORTFOLIO	S&P 500%
Large Cap	61.0	81.5
Mid Cap	27.5	18.0
Small Cap	11.4	0.6

### VALUATION MULTIPLES

	PORTFOLIO	S&P 500
Price / Earnings	17.2x	21.8x
Price / Book	3.5x	4.3x
Price / Sales	2.9x	2.9x
Price / Cash Flow	12.5x	15.7x

### STOCK SECTORS

	PORTFOLIO	S&P 500%
<b>DEFENSIVE</b>	<b>8.3</b>	<b>18.0</b>
Consumer Defensive	0.8	5.5
Health Care	7.5	10.1
Utilities	0.0	2.3
<b>SENSITIVE</b>	<b>47.1</b>	<b>53.2</b>
Communication Services	17.7	9.4
Energy	0.0	3.2
Industrials	9.9	8.2
Technology	19.4	32.5
<b>CYCLICAL</b>	<b>44.6</b>	<b>28.9</b>
Basic Materials	4.0	1.9
Consumer Cyclical	9.9	11.3
Financial Services	30.7	13.6
Real Estate	0.0	2.1

### STOCK REGIONS

	PORTFOLIO	S&P 500%
North America	97.3	99.4
Greater Europe	1.8	0.5
Greater Asia	0.8	0.0
Latin America	0.1	0.0
	PORTFOLIO	S&P 500%
Developed Markets	99.3	100.0
Emerging Markets	0.7	0.0

\*Source: Morningstar Direct

Holdings are subject to change.

stocks

# FIXED INCOME

## CHARACTERISTICS\* (12.31.24)

### FIXED INCOME INVESTMENT STYLE

MATURITY	PORTFOLIO%	BLOOMBERG BARCLAYS GLOBAL AGG.%
1-5 Years	52.1	40.5
5-10 Years	28.1	24.8
> 10 Years	18.9	34.2

QUALITY	PORTFOLIO%	BLOOMBERG BARCLAYS GLOBAL AGG.%
AAA	7.4	49.2
AA	65.8	14.3
A	14.1	19.1
BBB	11.4	15.7
BB	0.4	0.0
B	0.0	0.0
Below B	0.0	0.9

INTEREST RATE RISK	PORTFOLIO%	BLOOMBERG BARCLAYS GLOBAL AGG.%
Duration	4.0	6.5

CREDIT QUALITY	PORTFOLIO%	BLOOMBERG BARCLAYS GLOBAL AGG.%
Investment Grade	98.7	98.4
Speculative Grade	0.4	0.9

SECTOR	FIXED INCOME PORTFOLIO%	BLOOMBERG BARCLAYS GLOBAL AGG.%
Government	68.6	40.8
Corporates	18.9	15.8
MBS	6.8	8.1
Other	5.7	35.3

<sup>1</sup>Quality ratings reflect the credit quality of the underlying securities in the Fund's portfolio and not that of the Fund itself. Quality ratings are subject to change. Morningstar Credit Ratings, LLC, assigns the highest rating as AAA and the lowest rated are < BBB ("junk bonds").

\*Source: Morningstar Direct

Holdings are subject to change.

## IMPORTANT INFORMATION

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The Leuthold Core ETF is structured as a fund-of-funds and is subject to the same risks as the funds it holds. Investors will incur the expenses of the Fund in addition to fees of the underlying funds in the portfolio.

Investments in foreign securities may involve risks such as social and political instability, market illiquidity, exchange-rate fluctuations, a high level of volatility, and limited regulation. Investing in emerging markets involves different and greater risks, as these countries are substantially smaller, less liquid, and more volatile than securities markets in more developed markets.

The Fund uses short sales which involve substantial risk. The loss on a short sale is, in principle, unlimited since there is no upward limit on the price of a shorted asset.

The Fund may invest in Underlying Investments that principally invest in the commodities markets through investment in managed futures programs. Such investments may subject an Underlying Investment to greater volatility than investments in traditional securities.

The Fund may invest in Underlying Investments that primarily invest in high-yield securities (also known as "junk bonds"). Although high-yield securities generally pay higher rates of interest than investment grade bonds, high-yield securities are speculative, high-risk investments that may cause income and principal losses for such Underlying Investments and, consequently, negatively affect the value of the Fund's investment in such Underlying Investments.

As with all ETFs, Fund shares may be bought and sold in the secondary market at market prices. The market price normally should approximate the Fund's net asset value per share (NAV), but the market price sometimes may be higher or lower than the NAV.

The S&P 500 Index is an unmanaged index of 500 common stocks primarily traded on the New York Stock Exchange, weighted by market capitalization. Index performance includes the reinvestment of dividends and capital gains.

Bloomberg Global Aggregate Index provides a broad-based measure of global, investment grade fixed-rate debt markets.

It is not possible to invest directly in an index.

### *Glossary of Terms*

**Price to Earnings (P/E) Ratio:** Current share price of a stock divided by its earnings per share (EPS).

**Price to Book (P/B) Ratio:** A ratio used to compare a stock's market value to its book value. It is calculated by dividing the current price of the stock by the latest quarter's book value per share. Also known as price-equity ratio.

**Price to Sales (P/S) Ratio:** A ratio calculated by dividing a stock's current price by its sales per share over the trailing 12 month period.

**Price to Cash Flow (P/CF) Ratio:** A measure of the market's expectation of future financial health. Because this measure deals with cash flow, the effects of depreciation and other non-cash factors are removed. Like the P/E ratio, this provides an indication of relative value.

**Duration:** A gauge of the sensitivity of the price (the value of principal) of a fixed-income investment to a change in interest rates. Duration is expressed as several years. Rising interest rates mean falling bond prices, while declining interest rates result in rising bond prices.

**Credit Quality (Rating):** An assessment of the credit worthiness of individuals and corporations. It is based on the history of borrowing and repayment, as well as the availability of assets and the extent of liabilities.

# 2

## PERFORMANCE



THE LEUTHOLD GROUP

# LEUTHOLD CORE ETF PERFORMANCE

Total Return as of Dec. 31, 2024	1-Month	4Q24	YTD	1-Yr.	3-Yr.	Inception Jan. 3, 2020
LCR @ Market	-3.55%	-1.31%	8.69%	8.69%	4.25%	7.63%
LCR @ NAV	-3.59%	-1.26%	8.80%	8.80%	4.30%	7.61%
S&P 500	-2.38%	2.41%	25.02%	25.02%	8.94%	14.51%
Bbg. Global Agg.	-2.15%	-5.10%	-1.69%	-1.69%	-4.52%	-2.03%
Morningstar TAA	-3.25%	-0.49%	10.25%	10.25%	0.97%	NA†

† Intra-month pricing from inception not available for Morningstar Tactical Allocation category.

*Performance data are past results and are no guarantee of future results. Investment return and principal will fluctuate; when redeemed, shares may be worth more or less than their original cost. Current performance may be lower or higher than that shown. For performance as of the most recent month end, visit [LeutholdFunds.com](http://LeutholdFunds.com).*

The S&P 500 is a capitalization-weighted index of 500 stocks designed to measure performance of the broad domestic economy; it cannot be invested in directly. Bloomberg Global Aggregate provides a broad-based measure of the global investment-grade fixed-rate debt market. Morningstar Tactical Allocation (TAA) measures performance of funds in the Morningstar Tactical Allocation category. These indexes cannot be invested in directly.

## FUND FEES & EXPENSES

This table describes the fees and expenses that you may pay if you buy and hold shares of the Fund ("Shares"). This table does not include the brokerage commissions that investors may pay on their purchases and sales of Shares.

### Annual Fund Operating Expenses

(Expenses that you pay each year as a percentage of the value of your investment.)

Management Fees .....	0.50%
Distribution (12b-1) Fees .....	None
Other Expenses <sup>1</sup> .....	0.67%
Acquired Fund Fees and Expenses <sup>1</sup> .....	0.21%
<b>Total Annual Fund Operating Expenses</b> .....	<b>0.94%</b>
Expense Reimbursement <sup>2</sup> .....	0.08%
<b>Total Annual Fund Operating Expenses After Expense Reimbursement</b> .....	<b>0.86%</b>

<sup>1</sup> Acquired Fund Fees and Expenses are not directly borne by the Fund, and they are not reflected in the Fund's financial statements, with the result that the information presented in the expense table may differ from that presented in the financial highlights.

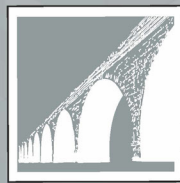
<sup>2</sup> The Fund's investment adviser has contractually agreed to waive its advisory fee to the extent necessary to insure that Net Expenses (excluding Acquired Fund Fees and Expenses) do not exceed 0.65% of the average daily net assets of the Fund. Had such fees not been waived, the return would have been lower. The expense limitation agreement will remain in effect until January 31, 2026. The Fund's investment adviser may recover waived fees for three years from the time the expenses were waived or incurred, provided total expenses, including such recovery, are limited to the lesser of (1) the expense limitation in effect at the time of the waiver and (2) the expense limitation in effect at the time of recovery.

# outcomes

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. 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.

3

LEUTHOLD INVESTMENT  
PROFESSIONALS



THE LEUTHOLD GROUP

# INVESTMENT PROFESSIONALS

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**DOUG RAMSEY, CFA, CMT**  
Chief Investment Officer  
Portfolio Manager  
Industry Experience: 33 years



**SCOTT OPSAL, CFA**  
Director of Research/Equities  
Portfolio Manager  
Industry Experience: 40 years



**CHUN WANG, CFA, PRM**  
Analyst & Portfolio Manager  
Industry Experience: 28 years





**GREG SWENSON, CFA**  
Analyst & Portfolio Manager  
Industry Experience: 18 years



**PHIL SEGNER, CFA**  
Analyst & Portfolio Manager  
Industry Experience: 20 years



**JOHN MUELLER, CFA**  
Co-Chief Executive Officer  
Industry Experience: 31 years



**JEFF LEADHOLM**  
Co-Chief Executive Officer  
Industry Experience: 35 years

experience

# INVESTMENT PROFESSIONALS

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## **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 which evaluates the underlying health of the markets, both domestically and globally. He is also the lead writer for The Leuthold Group's highly regarded institutional research publications.

Doug is an accomplished speaker and has presented at a range of engagements, including the Morningstar Investment Conference, CFA societies across the U.S., 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 has been quoted several times in *Barron's* and is often 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.

Prior to 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's degree in Economics and Business Administration. He also 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.

## **SCOTT OPSAL, CFA**

Scott is a co-Portfolio Manager and Director of Research & Equities for The Leuthold Group, LLC. His responsibilities include conducting in-depth analytical projects and exploring new fundamental and quantitative studies that support the firm's portfolios and strategy recommendations. Scott brings over thirty 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 included 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 CFA Society Madison 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.

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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.

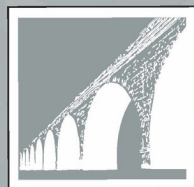
Prior to joining Leuthold, Jeff spent seven years as a San Francisco-based Vice President of Sales for Standard & Poor's; prior to that, he worked for a variety of pension fund and valuation consulting firms in Chicago and San Francisco. Jeff has a BA in Economics and International Relations as well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

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**COMPOSITE + SUPPLEMENTAL**  
**PERFORMANCE**  
**GIPS**



**THE LEUTHOLD GROUP**



# LEUTHOLD CORE ETF PORTFOLIO

	Calendar year total return (gross)	Calendar year total return (net)	Benchmark return <sup>†*</sup> (gross)	Composite 3-Yr St Dev	Benchmark 3-Yr St Dev	Number of accounts at calendar year-end	Composite dispersion	Composite assets at calendar year-end (in millions)	Percent of firm assets	Total firm assets at calendar year-end (In billions)	Total Firm Assets and Advisory Only Assets at calendar year-end (In billions)
2023	13.23%	12.67%	26.29%	9.48	17.29	3	**	\$81.80	7.60%	\$1.08	\$0.11
2022	-6.99%	-7.45%	-18.11%	10.64	20.87	2	***	\$60.16	5.51%	\$1.09	\$1.12
2021	12.59%	12.04%	28.71%	8.66	17.17	2	***	\$17.49	1.64%	\$1.06	\$1.10
2020	13.91%	13.33%	18.40%	**	18.53	2	***	\$13.00	1.35%	\$0.96	\$1.00
2019	14.25%	13.68%	31.49%	**	11.93	1	***	\$0.23	0.19%	****	****
Dec. 2018	-3.17%	-3.21%	-9.03%	**	N/A	1	***	\$0.34	0.03%	****	****

## COMPOSITE DESCRIPTION

The Leuthold Core ETF Portfolio Composite (the "Composite") consists of all fully discretionary, fee-paying private accounts, including a registered investment company, Leuthold Core ETF (ticker: LCR), managed as Core ETF Portfolio accounts. The Composite accounts utilize our tactical allocation fundamental and quantitative tools in order to select non-proprietary Exchange Traded Funds (ETFs) to gain exposure to asset classes favored by our quantitative models. The strategy uses sector ETFs, industry ETFs, and other classes of ETFs to gain desired market exposure. The investment guidelines of the Composite follow 30%-70% equity exposure and 30%-70% fixed income exposure. Under extreme market conditions, there may be a departure from the normal guideline ranges.

The Adviser to Leuthold strategies, The Leuthold Group, LLC, DBA Leuthold Weeden Capital Management, claims compliance with the Global Investment Performance Standards (GIPS) and has prepared and presented this report in compliance with the GIPS standards. Leuthold Weeden Capital Management has been independently verified for the periods January 1, 1988 through December 31, 2023. The verification reports are available upon request.

A firm that claims compliance with the GIPS standards must establish policies and procedures for complying with all the applicable requirements of the GIPS standards. Verification provides assurance on whether the firm's policies and procedures related to Composite and pooled fund maintenance, as well as the calculation, presentation, and distribution of performance, have been designed in compliance with the GIPS standards and have been implemented on a firm-wide basis. Verification does not provide assurance on the accuracy of any specific performance report.

## 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 December 1, 2018.
3. Creation date of the Composite is December 1, 2018.
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, when applicable.
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 on the first \$25 million. Balance over \$25 million, negotiated. Actual management fees are used to calculate net of fees returns.
8. A complete list of Composite descriptions and pooled funds are available upon request.
9. New accounts are added to the Composite in the first complete month after the accounts are started and 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. The Leuthold Core ETF (ticker LCR)† was added to the Leuthold Core ETF Portfolio Composite on December 31, 2019.
12. Policies for valuing portfolios, calculating performance, and preparing GIPS reports are available from LWCM upon request.
13. The three-year annualized standard deviation represents the variability of the Composite and the benchmark returns over the preceding 36-month period.

† Not examined by Independent Public Accountants prior to January 1, 2022.

\* The primary comparison benchmark is the S&P 500 Index. The S&P 500 Index is an unmanaged index considered to be representative of the U.S. stock market.

\*\* Three-year ex-post standard deviation of the Composite is not presented because 36-month trailing returns are not available.

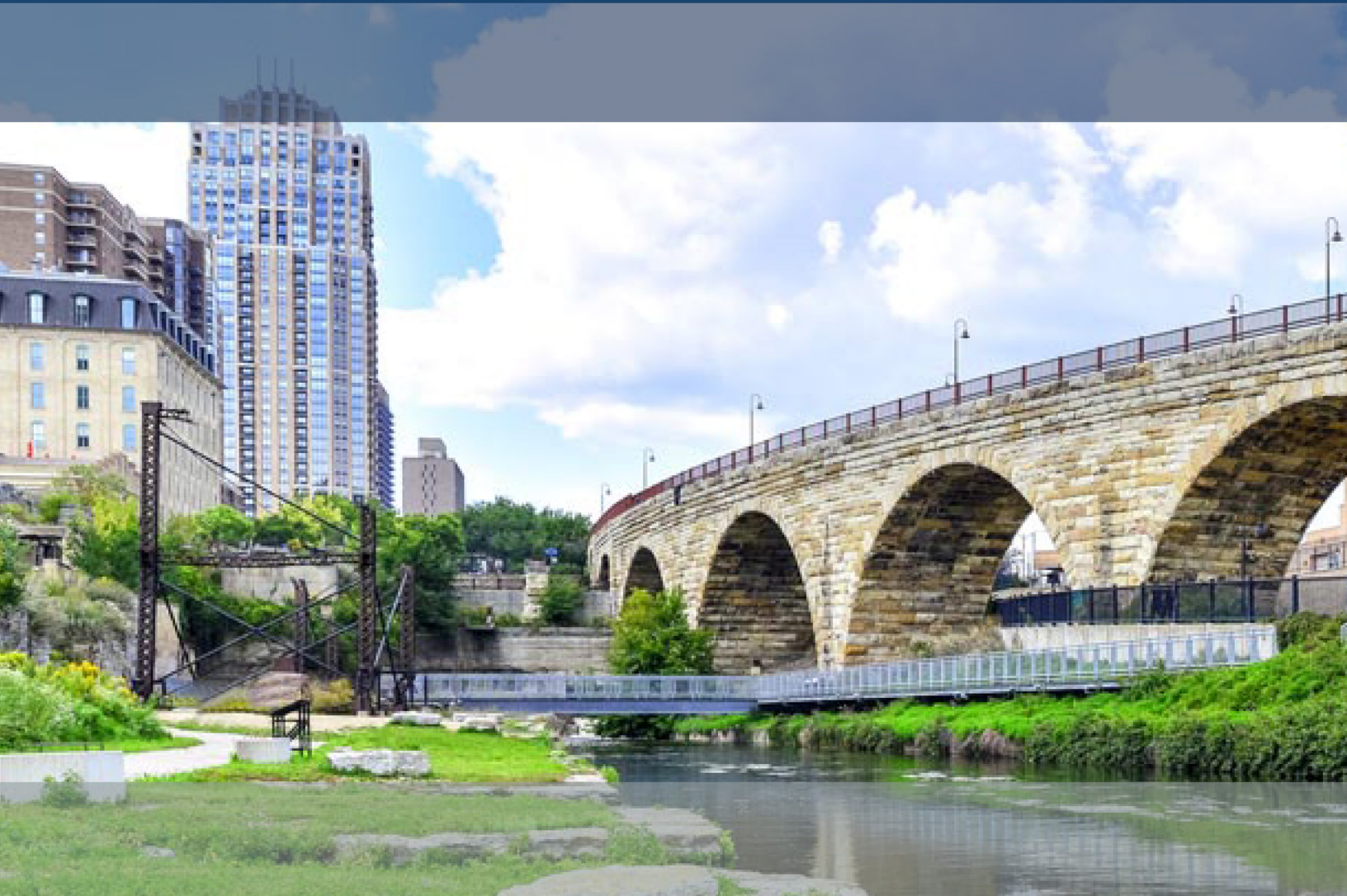
\*\*\* Fewer than five accounts were included in the Composite for the full year.

\*\*\*\* Not required for periods prior to December 31, 2020.

‡ Leuthold Core ETF (LCR): Management fee 0.50%; gross expense ratio 1.18%; net expense ratio 0.85%. The investment Adviser has contractually agreed to waive its management fee to the extent necessary to ensure that net expenses do not exceed 0.65% of the Fund's daily net assets. Had such fees not been waived, the return would have been lower. The expense limitation agreement will remain in effect until January 31, 2024. The investment Adviser may recover waived fees for three years from the time the expenses were waived or incurred, provided total expenses, including such recovery, are limited to the lesser of (1) the expense limitation in effect at the time of the waiver and (2) the expense limitation in effect at the time of recovery. The management fee, which is included in the operating expense, is 0.50%.

## PAST PERFORMANCE DOES NOT GUARANTEE FUTURE RESULTS.

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