Wilshire

Quarterly Market Review



Market Commentary

U.S. Equity

The U.S. stock market was up 2.6% for the fourth quarter and is up 23.8% for the year-to-date. Sector performance was, in fact, mostly negative for the quarter, with seven sectors producing a loss. However, the three largest sectors by market capitalization were all up – information technology (+5.9%), financials (+7.8%) and consumer discretionary (+12.3%). Small-cap underperformed large-cap by 180 basis points while growth stocks generally outperformed value by a large margin.

The Federal Reserve began raising rates in early 2022 in response to 7% annual inflation, which continued to accelerate to 9%. Rates were increased by 525 basis points during a 17-month period before pausing for roughly one year. The U.S. central bank began decreasing rates during 2024 – by a total of 100 basis points in three meetings. While it is probably too early to judge whether they achieved a "soft landing," early data is positive. The unemployment rate is low – although jobs growth has been unsteady – and the economy continues to expand. However, inflation ticked higher during the fourth quarter and the Fed took notice. Current expectations for rate cuts in 2025 are modest (-0.50%) and down meaningfully from September.

Non-U.S. Equity

Economic growth in England continues to slow with business confidence waning. Prospects in Germany, Europe's largest economy, are equally dim due to persistently high energy prices and growing competition with China. Currency changes played a major role in U.S. dollar returns this quarter as the dollar rose meaningfully versus the euro, pound and yen. China's economy may be turning a corner after several stimulative macroeconomic policies were announced in September. Early indicators show strength in the services sector along with growth in retail sales.

Fixed Income

The U.S. Treasury yield curve was up across most of the maturity spectrum. The 10-year Treasury yield ended the quarter at 4.57%, up 79 basis points from September. The FOMC met twice during the quarter and decreased their overnight rate by a total of -0.50%. Expectations for rate cuts next year have come down as some officials are concerned that the new administration's preference for tariffs could push prices higher. In fact, Fed Chair Jerome Powell recently stated that, "when the path is uncertain, you go a little slower."

December 2024 Asset Class Assumptions

			Eq	uity				Fixed Income						Real Assets					
	U.S. Stock	Dev ex-U.S. Stock	Emg Stock	Global ex-U.S. Stock	Global Stock	Private Equity	Cash	Core Bond	LT Core Bond	TIPS	High Yield	Private Credit	Dev ex- U.S. Bond (Hdg)	U.S. RES	Real Estate Global RES	Private RE	Cmdty	Real Assets	U.S. CPI
Compound Return (%)	4.35	5.35	5.60	5.70	4.90	6.25	3.60	5.20	5.35	4.70	6.35	7.75	3.00	5.70	5.85	6.40	4.85	6.85	2.35
Arithmetic Return (%)	5.70	6.85	8.60	7.35	6.25	10.00	3.60	5.30	5.80	4.85	6.80	8.50	3.10	7.10	7.10	7.30	6.05	7.60	2.35
Risk (%)	17.00	18.00	26.00	19.05	17.00	29.65	0.75	4.75	9.90	6.00	10.00	12.75	4.00	17.50	16.55	13.95	16.00	12.60	1.75
Yield (%)	1.25	3.00	2.50	2.85	1.80	0.00	3.60	5.65	5.70	5.05	9.80	4.85	4.25	3.95	3.95	2.85	3.60	3.70	0.00
Growth Factor Exposure	8.00	8.00	8.00	8.00	8.00	14.00	0.00	-0.95	-2.55	-3.00	4.00	5.10	-1.00	6.00	6.00	3.70	0.00	0.70	0.00
Inflation Factor Exposure	-3.00	-1.00	3.00	0.15	-1.95	-4.25	0.00	-2.60	-6.95	2.50	-1.00	-1.50	-3.00	1.00	1.65	1.00	12.00	4.60	1.00

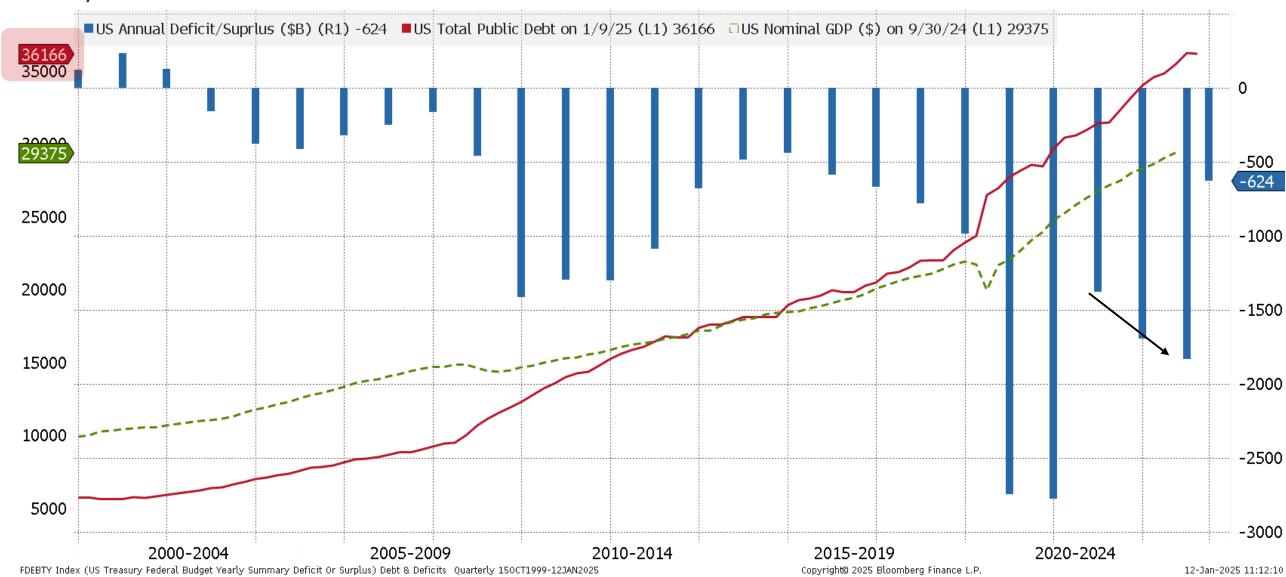
Correlations

Correlations																			
U.S. Stock	1.00																		
Dev ex-U.S. Stock (USD)	0.81	1.00																	
Emerging Mkt Stock	0.74	0.74	1.00																
Global ex-U.S. Stock	0.84	0.96	0.89	1.00															
Global Stock	0.98	0.90	0.83	0.93	1.00														
Private Equity	0.72	0.63	0.61	0.66	0.73	1.00													
Cash Equivalents	-0.05	-0.09	-0.05	-0.08	-0.06	0.00	1.00												
Core Bond	0.27	0.13	0.00	0.08	0.21	0.30	0.18	1.00											
LT Core Bond	0.30	0.15	0.00	0.10	0.24	0.31	0.11	0.95	1.00										
TIPS	-0.05	0.00	0.15	0.06	-0.01	-0.03	0.20	0.60	0.47	1.00									
High Yield Bond	0.54	0.39	0.49	0.46	0.53	0.31	-0.10	0.24	0.32	0.05	1.00								
Private Credit	0.68	0.55	0.58	0.60	0.68	0.44	0.00	0.23	0.30	0.00	0.76	1.00							
Dev ex-U.S. Bond (Hdg)	0.16	0.25	-0.01	0.16	0.17	0.26	0.10	0.68	0.66	0.39	0.26	0.22	1.00						
U.S. RE Securities	0.57	0.47	0.44	0.49	0.56	0.49	-0.05	0.17	0.22	0.10	0.56	0.62	0.05	1.00					
Global RE Securities	0.62	0.55	0.52	0.58	0.63	0.54	-0.05	0.17	0.21	0.11	0.61	0.67	0.04	0.99	1.00				
Private Real Estate	0.55	0.45	0.45	0.48	0.55	0.50	-0.05	0.18	0.24	0.09	0.58	0.63	0.05	0.79	0.79	1.00			
Commodities	0.25	0.34	0.39	0.38	0.31	0.28	0.00	-0.03	-0.04	0.25	0.29	0.29	-0.10	0.25	0.28	0.25	1.00		
Real Assets	0.62	0.63	0.65	0.68	0.67	0.57	-0.03	0.24	0.25	0.32	0.64	0.69	0.06	0.79	0.83	0.77	0.63	1.00	
Inflation (CPI)	-0.10	-0.15	-0.13	-0.15	-0.12	-0.10	0.10	-0.12	-0.12	0.15	-0.08	0.00	-0.08	0.05	0.04	0.05	0.44	0.21	1.00



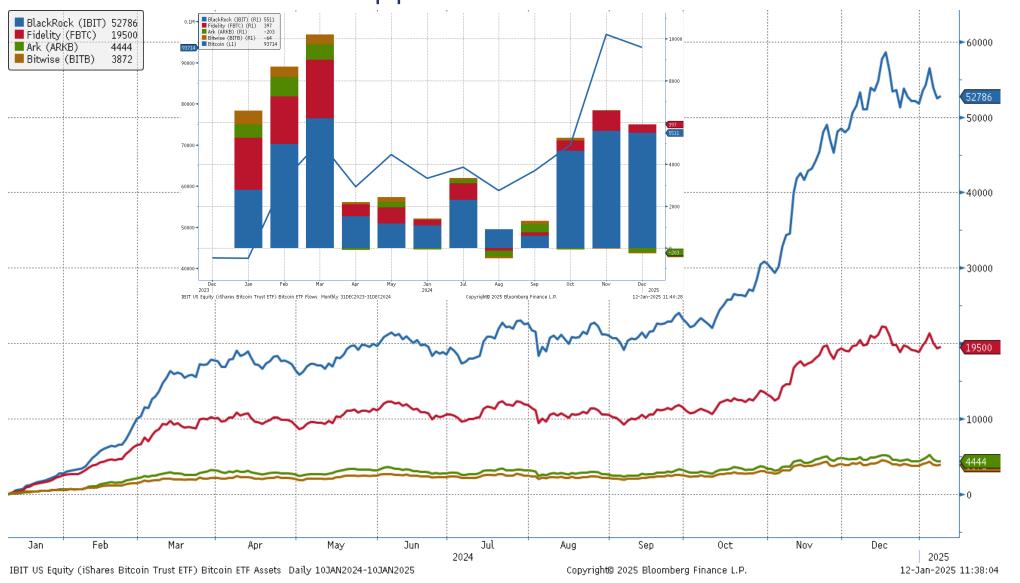
Data Source: Bloomberg

Debt / Deficit Picture



Data Source: Bloomberg

Bitcoin Demand: ETF Approval Provides Familiar Access to BTC



Largest 4 of the new ETFs launched Jan. 2024

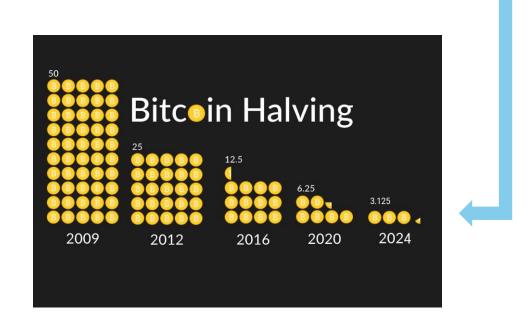
- ~\$55B in flows
- ~\$80B in Assets

Data Source: Bloomberg

Bitcoin Supply

- Only 21 million Bitcoin can ever be created
 - Nearly 95% of which (~19.9 million) already exist today
- Bitcoin supply scarcity is controlled by its creation ("mining") process
 - Some # of BTC are earned for "solving" blocks in the Bitcoin time chain
 - Rewards drop by half every 210,000 blocks (at ~ 10 minutes per block, this occurs every ~4 years)
 - The last "halving" occurred in April 2024
- Bitcoin's scarcity with superior stock-to-flow vs.
 gold leads to its Real Asset use case

		Bitcoin (m	illions)			Stock /
Event	Date	Mined	Left	% Mined	Reward	Flow
BTCLaunch	Jan 2009	0.00	21.00	0.0%	50	
1st Halving	Nov 2012	10.50	10.50	50.0%	25	8
2nd Halving	Jul 2016	15.75	5.25	75.0%	12.5	24
3rd Halving	May 2020	18.38	2.63	87.5%	6.25	56
4th Halving	Apr 2024	19.69	1.31	93.8%	3.125	120
5th Halving	Mar 2028	20.34	0.66	96.9%	1.5625	248
•••	•••	•••	•••		•••	•••



Summary Changes

- Yield curve up across most of the maturity spectrum, except the very short term
 - Curve movements resulted in higher forecasts for fixed income asset classes
 - Slight decrease in spreads for investment grade and high yield bonds
- Yields on most real asset securities are up from last quarter; inflation assumption up at 2.35%
- Equity assumptions are up slightly; private equity up to the same degree due to higher leverage costs
- Equity risk premium worsened due to the larger increase in fixed income forecasts

	To	otal Return (%)	Risk (%)
Asset Class Assumption	Sep		Dec	
Asset Class Assumption	2024	Change	2024	
Inflation	2.25	0.10	2.35	1.75
Cash Equivalents	3.40	0.20	3.60	0.75
Treasuries	4.05	0.65	4.70	5.00
Core Bonds	4.60	0.60	5.20	4.75
LT Core Bonds	4.65	0.65	5.30	9.90
High Yield Bonds	5.95	0.40	6.35	10.00
Private Credit	7.45	0.30	7.75	12.75
Global RE Securities	5.25	0.45	5.70	16.55
Private Real Estate	6.10	0.30	6.40	13.95
U.S. Stocks	4.25	0.10	4.35	17.00
Dev. ex-U.S. Stocks	5.25	0.10	5.35	18.00
Emerging Market Stocks	5.50	0.10	5.60	26.00
Private Equity	6.15	0.10	6.25	29.65
Global 60/40 (ACWI/U.S. Core)	4.95	0.25	5.20	10.75

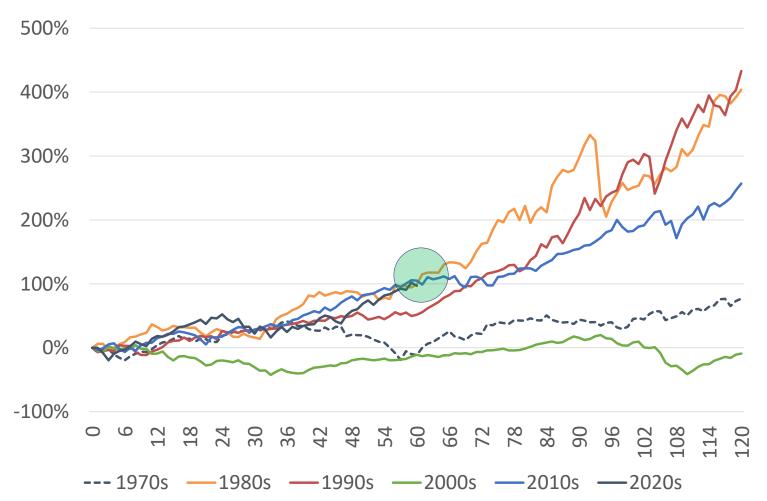
Relative Return (%)

Implied Bick Bromis	Sep		Dec
Implied Risk Premia	2024	Change	2024
Cash - Inflation	1.15	0.10	1.25
Treasury - Cash	0.65	0.45	1.10
Core - Treasury	0.55	-0.05	0.50
Long-Term Core - Core	0.05	0.05	0.10
High Yield - Core	1.35	-0.20	1.15
Global RESI - Core	0.65	-0.15	0.50
U.S. Stocks - Core	-0.35	-0.50	-0.85
Private Equity - U.S. Stocks	1.90	0.00	1.90
Implied Real Return (ACA - CPI)			
U.S. Stocks	2.00	0.00	2.00
U.S. Bonds	2.35	0.50	2.85
Cash Equivalents	1.15	0.10	1.25

"Nobody told me there'd be days like these" (Stock Returns by Decade)

"Everybody's flying and never touch the sky" 1

US Stock Cumulative Returns



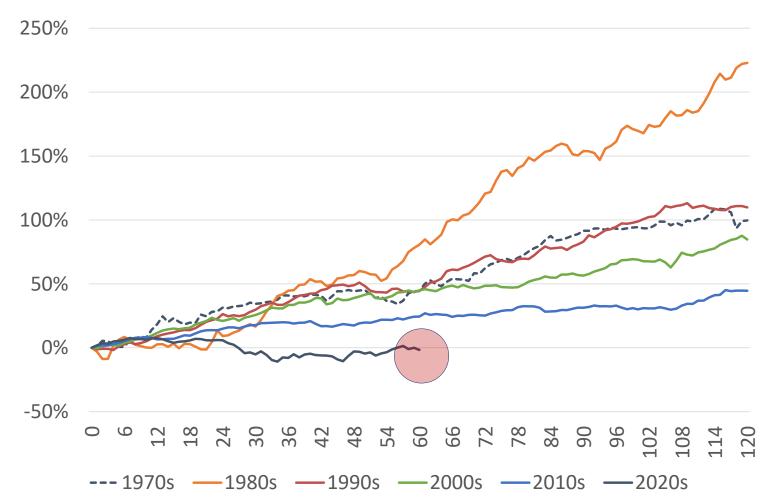
Data Source: Wilshire Compass, Bloomberg

¹ John Lennon, "Nobody Told Me," Milk and Honey, 1984

"Nobody told me there'd be days like these" (Bond Returns by Decade)

"Well, everybody's crying and no one makes a sound"1

US Bond Cumulative Returns



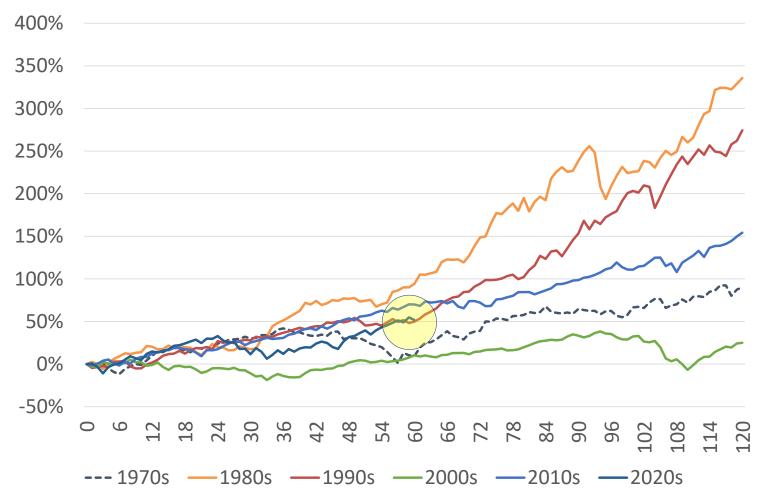
Data Source: Wilshire Compass, Bloomberg

¹ John Lennon, "Nobody Told Me," Milk and Honey, 1984

"Nobody told me there'd be days like these" (60/40 Returns by Decade)

"Always something happening and nothing going on" 1

60/40 Blended Cumulative Returns



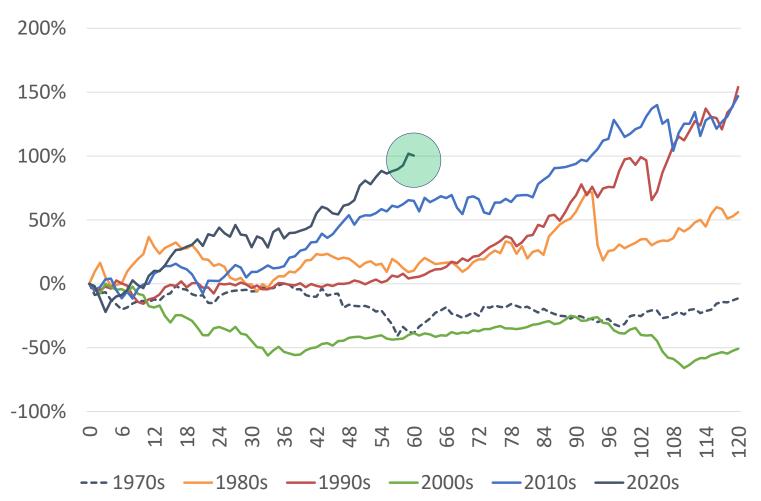
Data Source: Wilshire Compass, Bloomberg

¹ John Lennon, "Nobody Told Me," Milk and Honey, 1984

"Nobody told me there'd be days like these" (Stock > Bond Returns by Decade)

"Strange days indeed... Most peculiar, mama" 1

ERP Cumulative Returns

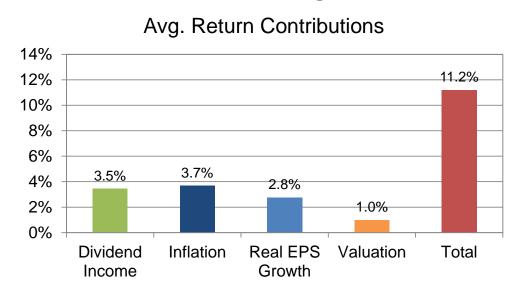


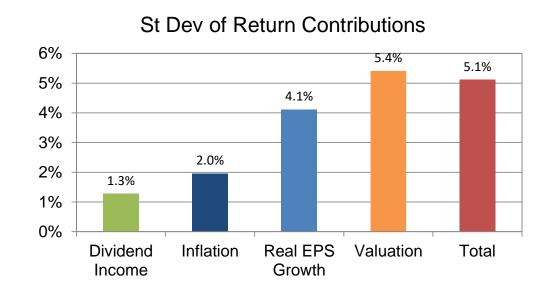
Data Source: Wilshire Compass, Bloomberg

¹ John Lennon, "Nobody Told Me," Milk and Honey, 1984

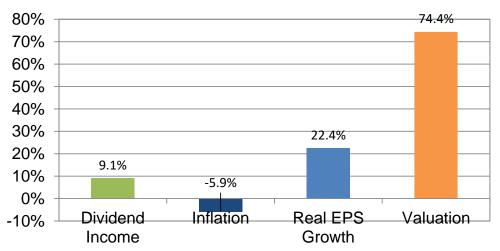
Contributions to Avg. Return, Risk Levels & Contributions to Risk

Historical data from 1951 through 2024





% Contribution to Risk

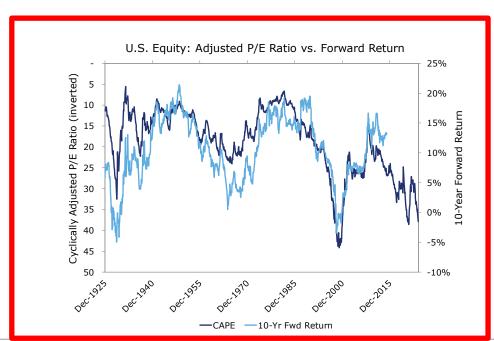


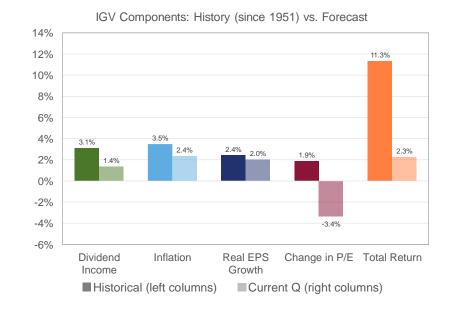
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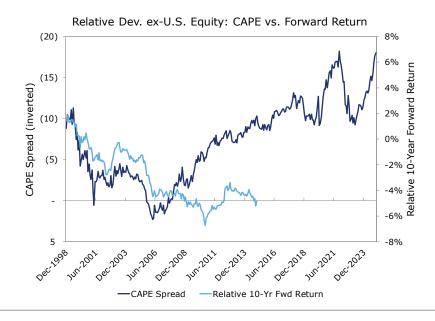
Data Source: S&P

Equity Markets

Equity	: Public & Private	Sep		Dec
Equity	. Public & Private	2024	Change	2024
Equity	DDM	6.40	0.15	6.55
	IGV	2.20	0.10	2.30
	CAPE	2.35	(1.25)	1.10
	U.S. Equity Forecast	4.25	0.10	4.35
Dev	v-ex-US Equity Forecast	5.25	0.10	5.35
	EM Equity Forecast	5.50	0.10	5.60
Private	Cost of Debt (Public)	5.35	0.50	5.85
	Cost of Debt (Private)	7.35	0.20	7.55
Private I	Market Basket Forecast	6.15	0.10	6.25

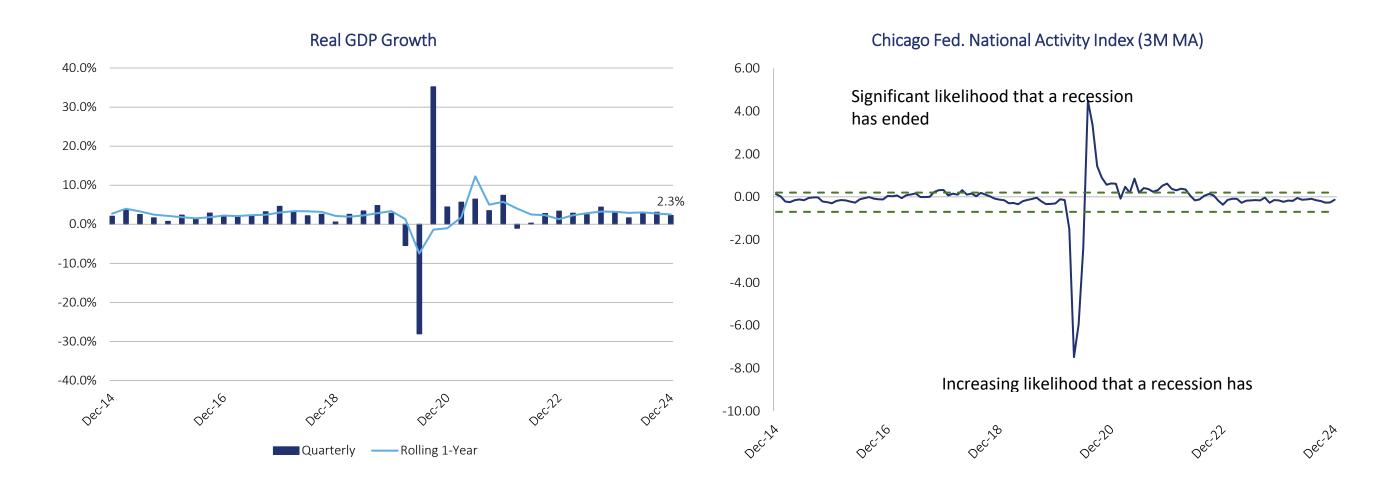






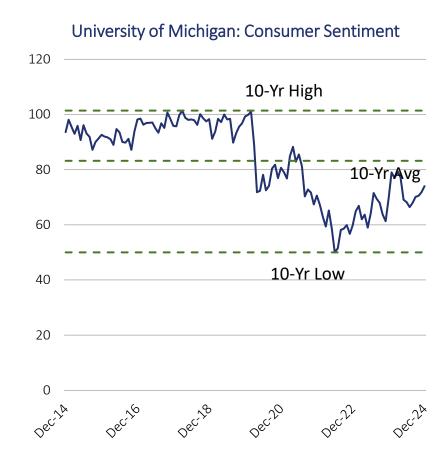
Economic/Market Activity

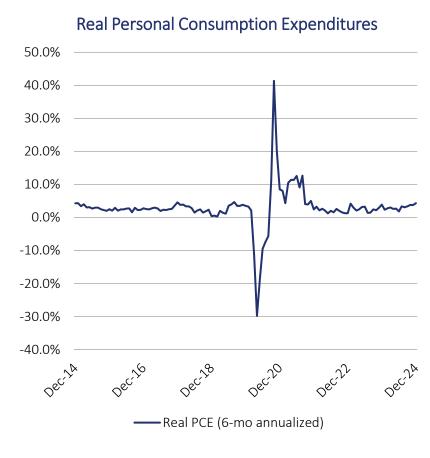
Economic Growth

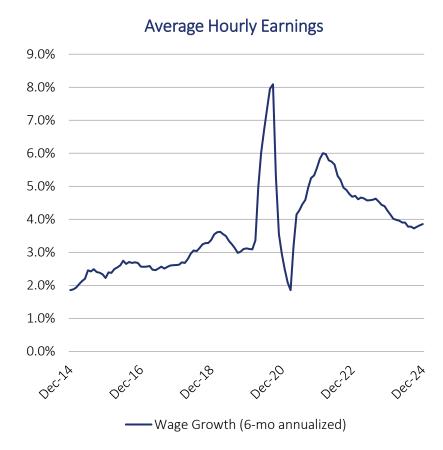


Data Source: Bloomberg

Consumer Activity

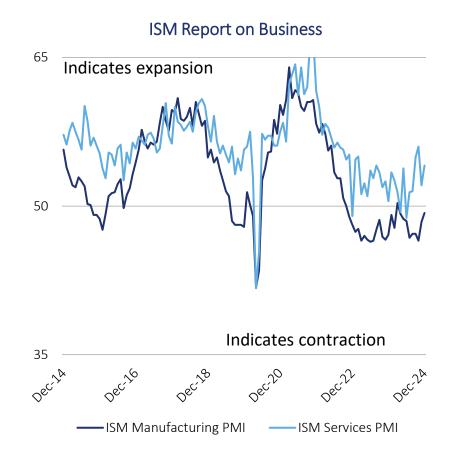


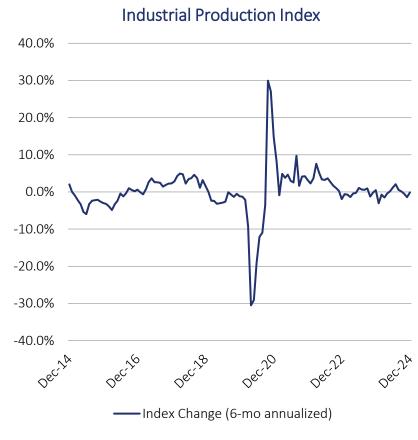


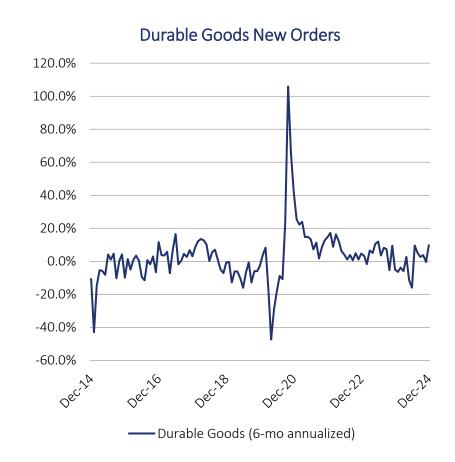


Data Source: Bloomberg

Business Activity

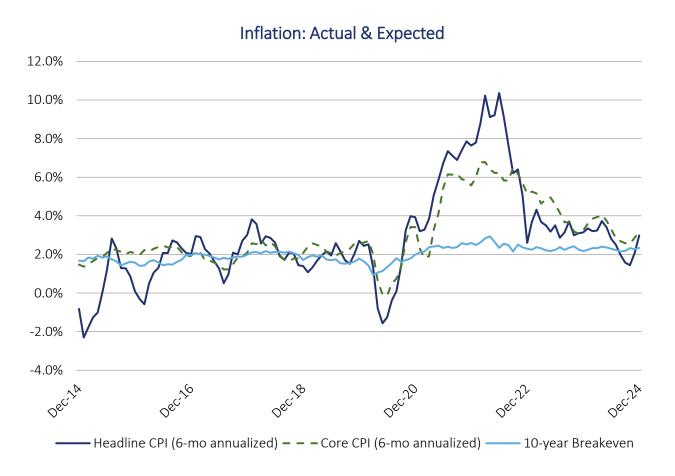


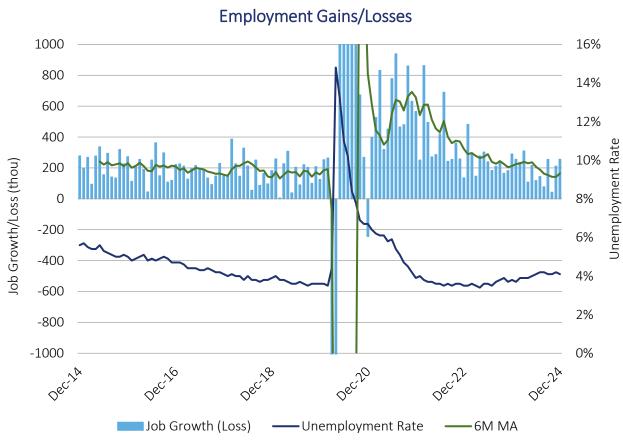




Data Source: Bloomberg

Inflation and Employment



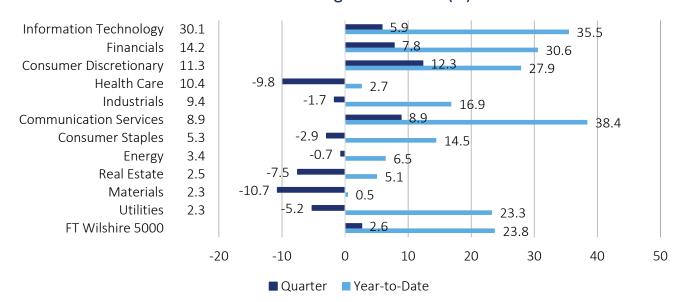


Data Source: Bloomberg

U.S. Equity Market

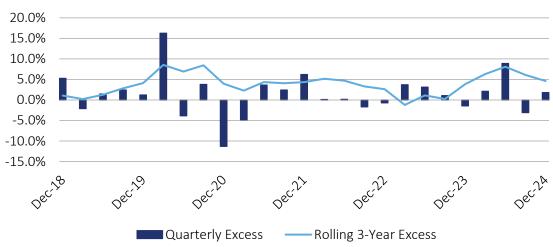
As of 12/31/2024	Quarter	YTD	1 Year	3 Year	5 Year	10 Year
FT Wilshire 5000	2.6	23.8	23.8	8.1	14.1	12.7
FT Wilshire U.S. Large Cap	2.8	25.2	25.2	8.8	14.8	13.1
FT Wilshire U.S. Small Cap	1.0	14.1	14.1	4.0	9.5	9.2
FT Wilshire U.S. Large Growth	7.2	35.5	35.5	10.9	19.4	n/a
FT Wilshire U.S. Large Value	-1.7	15.2	15.2	6.4	9.8	n/a
FT Wilshire U.S. Small Growth	2.4	15.5	15.5	2.2	8.8	n/a
FT Wilshire U.S. Small Value	-0.4	12.7	12.7	5.6	9.9	n/a
Wilshire REIT Index	-5.0	9.1	9.1	-2.5	4.5	5.7
MSCI USA Min. Vol. Index	-2.3	16.0	16.0	5.0	8.2	10.4
FTSE RAFI U.S. 1000 Index	-0.3	17.1	17.1	8.0	12.3	10.9

U.S. Sector Weight and Return (%)



Data Sources: Bloomberg, Wilshire Atlas

Large Cap vs. Small Cap



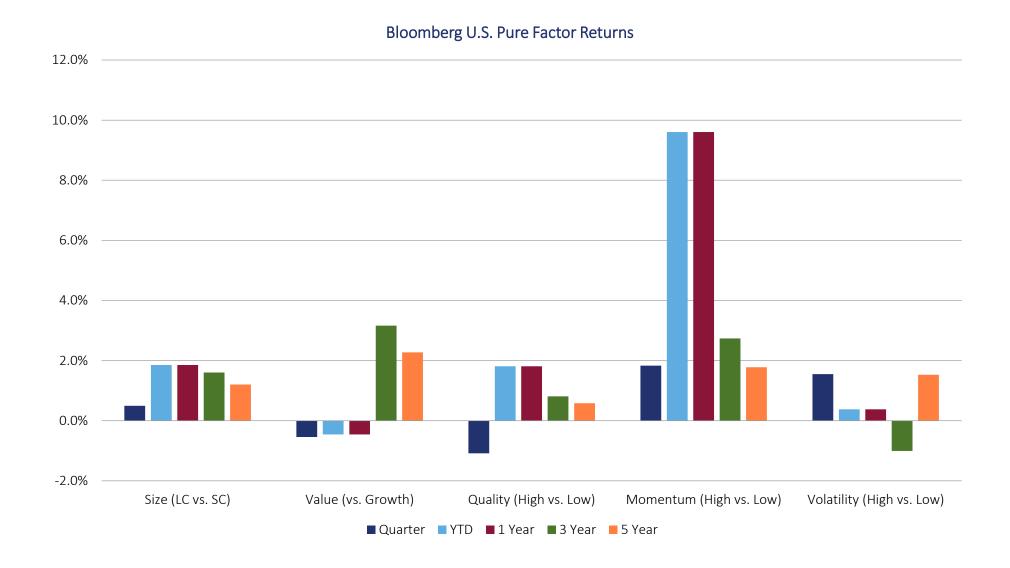
Large Growth vs Large Value



U.S. Factor Returns

Factor returns represent the contribution from large cap, value, etc. stocks within Bloomberg's Portfolio & Risk Analytics module

Value detracted from returns for the year while momentum was a meaningful contributor

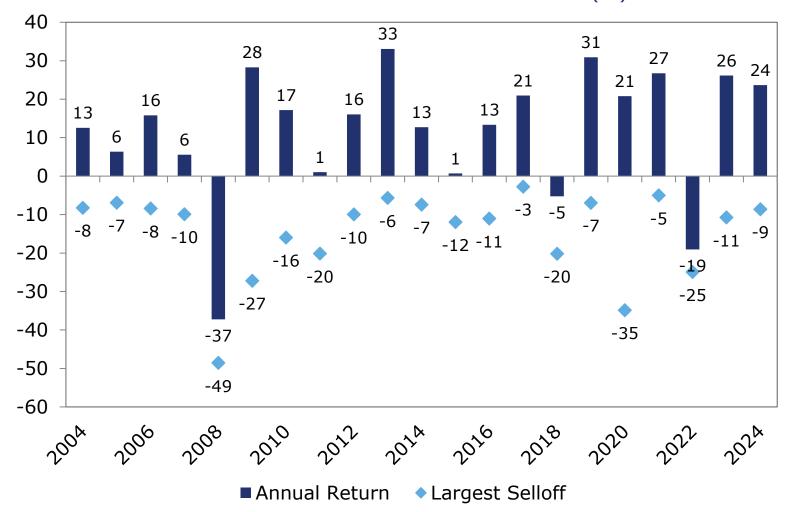


Data Source: Bloomberg

Annual Equity Market Selloffs

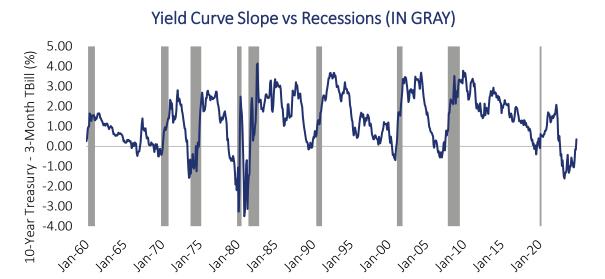
U.S. equity during 2024 was similar to 2023 – a roughly 25% gain with a modest sell-off during the year

FT Wilshire 5000 Index Worst Intra-Period Selloff vs. Annual Return (%)

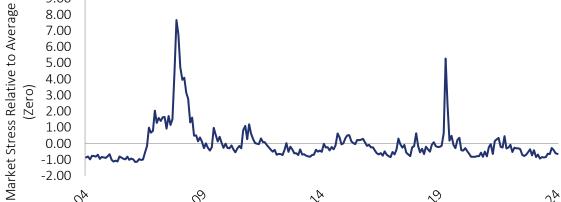


Data Sources: Wilshire Web, Bloomberg

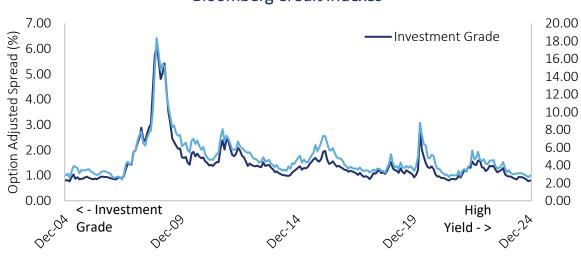
Risk Monitor



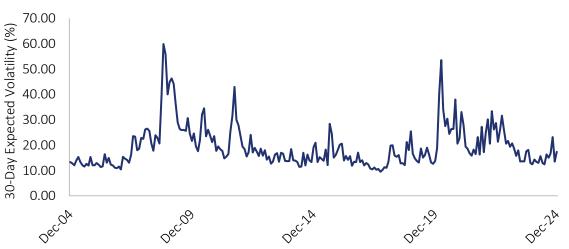




Bloomberg Credit Indexes



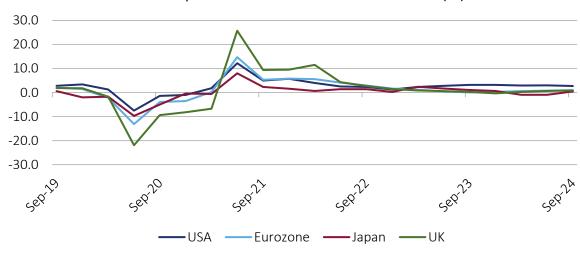
CBOE Volatility Index



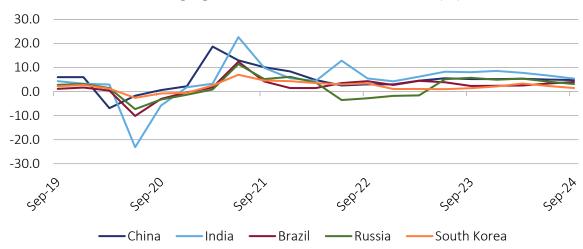
Data Source: Bloomberg

Non-U.S. Growth and Inflation

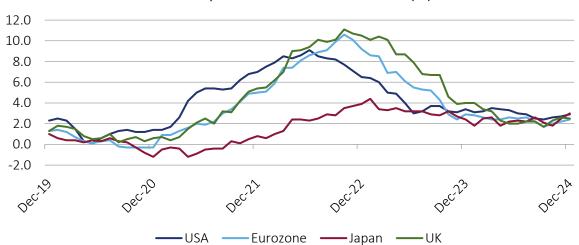




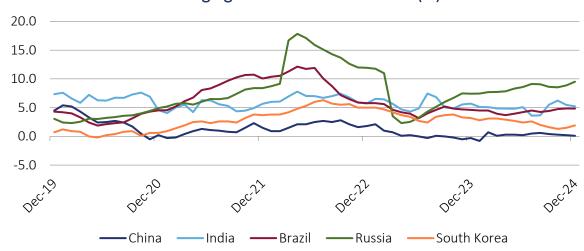
Emerging Markets Real GDP Growth YoY (%)



Developed Markets CPI Growth YoY (%)



Emerging Markets CPI Growth YoY (%)



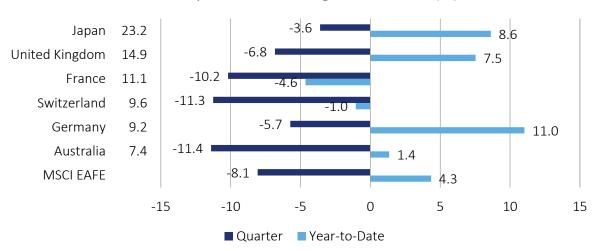
Data Source: Bloomberg

Non-U.S. Equity Market

As of 12/31/2024	Quarter	YTD	1 Year	3 Year	5 Year	10 Year
MSCI ACWI ex-US (\$G)	-7.5	6.1	6.1	1.3	4.6	5.3
MSCI EAFE (\$G)	-8.1	4.3	4.3	2.2	5.2	5.7
MSCI Emerging Markets (\$G)	-7.8	8.1	8.1	-1.5	2.1	4.0
MSCI Frontier Markets (\$G)	-5.0	6.8	6.8	-0.4	0.2	0.8
MSCI ACWI ex-US Growth (\$G)	-7.8	5.4	5.4	-2.4	3.7	5.7
MSCI ACWI ex-US Value (\$G)	-7.3	6.5	6.5	4.7	5.2	4.9
MSCI ACWI ex-US Small (\$G)	-7.6	3.9	3.9	-1.0	4.8	6.1
MSCI ACWI Minimum Volatility	/ -3.4	12.0	12.0	3.1	5.3	7.6
MSCI EAFE Minimum Volatility	-6.8	6.0	6.0	0.6	2.0	4.8
FTSE RAFI Developed ex-US	-7.3	4.6	4.6	4.3	6.2	5.5
MSCI EAFE LC (G)	-0.6	11.8	11.8	6.9	8.1	7.7
MSCI Emerging Markets LC (G) -4.2	13.7	13.7	2.1	4.9	6.4

Data Source: Bloomberg

Developed Markets Weight and Return (%)



Emerging Markets Weight and Return (%)

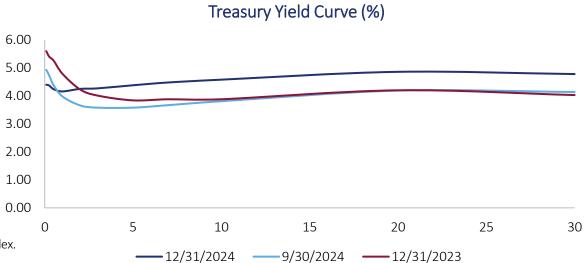


U.S. Fixed Income

As of 12/31/2024	YTW	Dur.	QTR	YTD	1 YR	3 YR	5 YR	10 YR
Bloomberg Aggregate	4.9	6.1	-3.1	1.3	1.3	-2.4	-0.3	1.3
Bloomberg Treasury	4.5	5.8	-3.1	0.6	0.6	-2.9	-0.7	0.8
Bloomberg Gov't-Rel.	4.9	5.2	-2.7	1.7	1.7	-1.5	0.0	1.5
Bloomberg Securitized	5.3	6.0	-3.0	1.5	1.5	-2.0	-0.6	1.0
Bloomberg Corporate	5.3	6.8	-3.0	2.1	2.1	-2.3	0.3	2.4
Bloomberg LT Gov't/Credit	5.3	13.6	-7.4	-4.2	-4.2	-9.2	-3.3	1.0
Bloomberg LT Treasury	4.9	14.7	-8.6	-6.4	-6.4	-12.0	-5.2	-0.6
Bloomberg LT Gov't-Rel.	5.9	11.4	-6.7	-2.5	-2.5	-6.4	-2.4	1.5
Bloomberg LT Corporate	5.8	12.5	-6.2	-1.9	-1.9	-6.8	-1.8	2.2
Bloomberg U.S. TIPS*	4.5	7.1	-2.9	1.8	1.8	-2.3	1.9	2.2
Bloomberg High Yield	7.5	3.1	0.2	8.2	8.2	2.9	4.2	5.2
S&P/LSTA Leveraged Loan	8.0	0.3	2.3	9.0	9.0	7.0	5.9	5.1
Treasury Bills	4.3	0.3	1.2	5.3	5.3	3.9	2.5	1.8

IG Corporate

- Aa Corporate



^{*}Yield and Duration statistics are for a proxy index based on similar maturity, the Bloomberg Barclays U.S. Treasury 7-10 Year Index. Data Source: Bloomberg

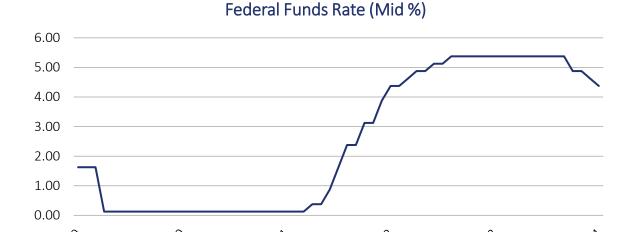
Federal Reserve

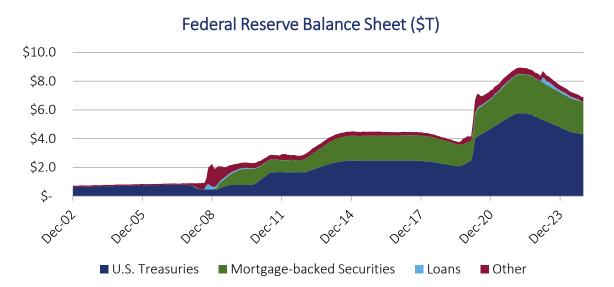
The Federal Open Market Committee decreased their overnight rate by 0.50% during Q4 and 1% in six months

QE4 was larger than the 3 phases of quantitative easing – combined – following the global financial crisis

The Fed's balance sheet is roughly equal to its level following the COVID spike

	Announced	Closed	Amount (bil)
QE1	11/25/2008	3/31/2010	\$1,403
QE2	11/3/2010	6/29/2012	\$568
QE3	9/13/2012	10/29/2014	\$1,674
QE4	3/23/2020	3/15/2022	\$4,779



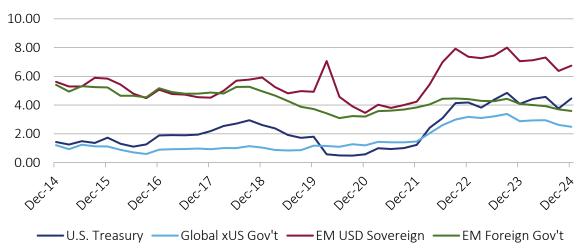


Data Source: Bloomberg

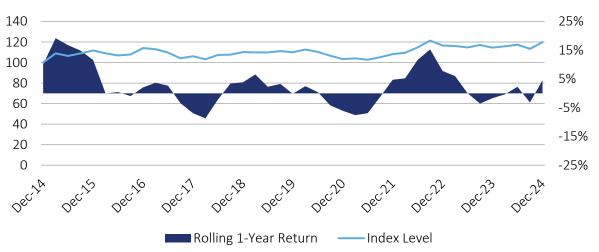
Non-U.S. Fixed Income

As of 12/31/2024	Quarter	YTD	1 Year	3 Year	5 Year	10 Year
Developed Markets						
Bloomberg Global Aggregate xUS	-6.8	-4.2	-4.2	-6.3	-3.4	-0.9
Bloomberg Global Aggregate xUS*	0.7	5.0	5.0	0.9	1.0	2.4
Bloomberg Global Inflation Linked xUS	-9.9	-8.3	-8.3	-11.5	-4.6	-1.4
Bloomberg Global Inflation Linked xUS*	-2.6	-2.6	-2.6	-6.8	-1.6	1.8
Emerging Markets (Hard Currency)						
Bloomberg EM USD Aggregate	-1.5	6.6	6.6	-0.5	0.6	3.2
Emerging Markets (Foreign Currenc	у)					
Bloomberg EM Local Currency Gov't	-3.8	1.7	1.7	-0.2	0.6	1.7
Bloomberg EM Local Currency Gov't*	2.2	9.3	9.3	4.9	3.3	3.4
Euro vs. Dollar	-7.0	-6.2	-6.2	-3.1	-1.6	-1.5
Yen vs. Dollar	-8.6	-10.3	-10.3	-9.9	-7.1	-2.7
Pound vs. Dollar	-6.4	-1.7	-1.7	-2.6	-1.1	-2.2

Global Fixed Income Yield to Worst (%)



U.S. Dollar Index: Advanced Economies

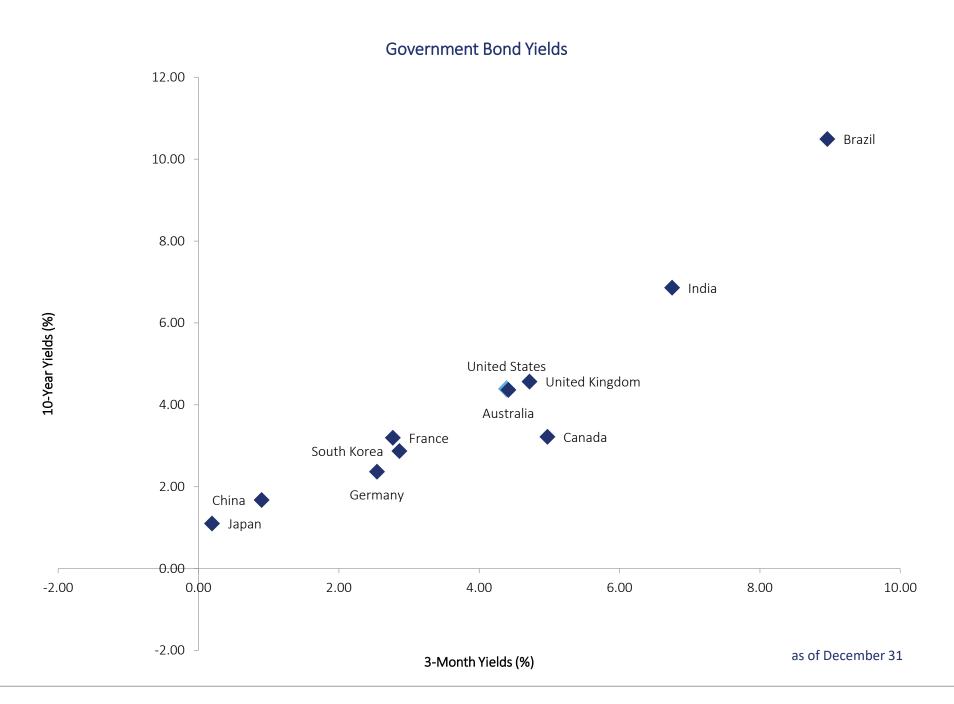


^{*}Returns are reported in terms of local market investors, which removes currency effects. Data Source: Bloomberg

Global Interest Rates

Short-term rates have turned positive across the globe; longer-term rates above 4.0% in the U.S., U.K. and Australia

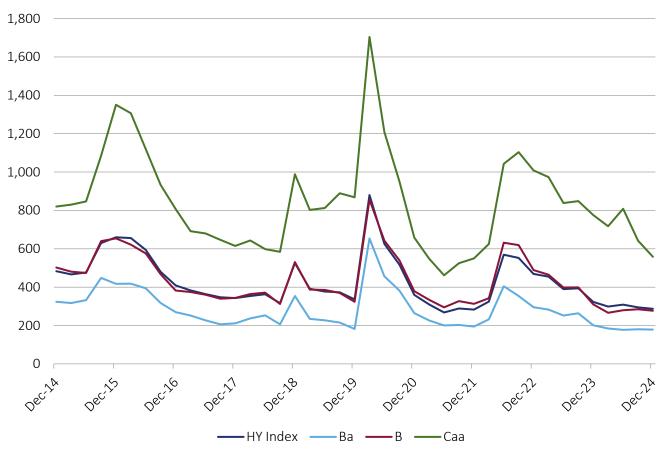
Data Source: Bloomberg



High Yield Bond Market

As of 12/31/2024	Weight	YTW	QTR	YTD	1 YR	3 YR	5 YR	10 YR
Bloomberg High Yield		7.5	0.2	8.2	8.2	2.9	4.2	5.2
S&P LSTA Leveraged Loan		8.0	2.5	8.7	8.7	6.9	5.4	4.8
High Yield Quality Distribution								
Ba U.S. High Yield	50.8%	6.4	-0.5	6.3	6.3	1.9	4.1	5.1
B U.S. High Yield	35.2%	7.4	0.3	7.4	7.4	3.1	3.8	4.8
Caa U.S. High Yield	12.1%	10.2	2.3	15.1	15.1	4.9	5.1	5.6
Ca to D U.S. High Yield	2.0%	20.2	2.2	48.3	48.3	15.6	12.3	4.9

Fixed Income Option Adjusted Spread (bps)

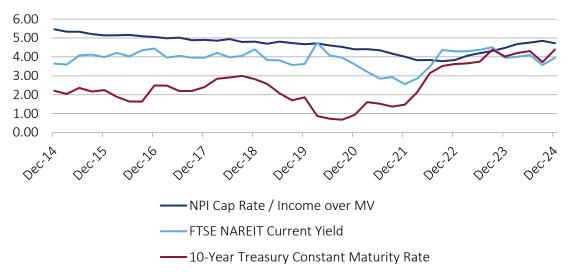


Data Source: Bloomberg

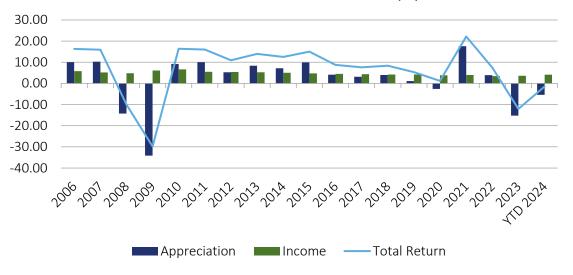
Real Assets

As of 12/31/2024	Quarter	YTD	1 Year	3 Year	5 Year	10 Year
Bloomberg U.S. TIPS	-2.9	1.8	1.8	-2.3	1.9	2.2
Bloomberg Commodity Index	-0.4	5.4	5.4	4.1	6.8	1.3
Bloomberg Gold Index	-0.5	26.6	26.6	12.3	10.4	7.4
Wilshire Global RESI Index	-7.5	5.4	5.4	-3.1	2.2	4.5
NCREIF ODCE Fund Index	1.2	-1.4	-1.4	-2.3	2.9	5.9
NCREIF Timberland Index	1.4	7.0	7.0	9.8	7.8	5.4
FTSE Global Core Infrastructur	€ -5.5	10.5	10.5	3.0	4.1	6.2
Alerian Midstream Energy	13.5	44.5	44.5	26.0	16.3	6.5
Bitcoin	46.9	120.5	120.5	26.5	67.3	76.6

Real Estate Valuation (%)



NCREIF ODCE Fund Index Return (%)



Data Sources: Bloomberg, National Council of Real Estate Investment Fiduciaries

Asset Class Performance

Asset Class Returns - Best to Worst

2019	2020	2021	2022	2023	2024 YTD
U.S. Equity	U.S. Equity	REITs	Commodities	U.S. Equity	U.S. Equity
31.0%	20.8%	46.2%	16.1%	26.1%	23.8%
REITs	Emrg Mrkts	Commodities	T-Bills	Developed	REITs
25.8%	18.7%	27.1%	1.3%	18.9%	9.1%
Developed	U.S. TIPS	U.S. Equity	High Yield	REITs	High Yield
22.7%	11.0%	26.7%	-11.2%	16.1%	8.2%
Emrg Mrkts	Developed	Developed	U.S. TIPS	High Yield	Emrg Mrkts
18.9%	8.3%	11.8%	-11.8%	13.4%	8.1%
High Yield	Core Bond	U.S. TIPS	Core Bond	Emrg Mrkts	Commodities
14.3%	7.5%	6.0%	-13.0%	10.3%	5.4%
Core Bond	High Yield	High Yield	Developed	Core Bond	T-Bills
8.7%	7.1%	5.3%	-14.0%	5.5%	5.3%
U.S. TIPS	T-Bills	T-Bills	U.S. Equity	T-Bills	Developed
8.4%	0.7%	0.0%	-19.0%	5.1%	4.3%
Commodities	Commodities	Core Bond	Emrg Mrkts	U.S. TIPS	U.S. TIPS
7.7%	-3.1%	-1.5%	-19.7%	3.9%	1.8%
T-Bills	REITs	Emrg Mrkts	REITs	Commodities	Core Bond
2.3%	-7.9%	-2.2%	-26.8%	-1.3%	1.3%

Annualized 5-Year as of 12/24 U.S. Equity 14.1% Commodities 6.8% Developed 5.2% REITs 4.5% T-Bills 2.5% Emrg Mrkts 2.1% U.S. TIPS 1.9% Core Bond -0.3%

Data Sources: Bloomberg

Note: Developed asset class is developed equity markets ex-U.S., ex-Canada

Wilshire

ERF of the City of Dallas

Executive Summary - 4Q 2024

December 2024

Save the Date! Wilshire Client Conference

Back – and Better Than Ever!



Nearest Airports include Palm Springs (7 miles), Ontario (80 miles), and LAX (130 miles)

The Wilshire Client Conference returns this spring:

- April 8 and 9, 2025
- Ritz Carlton,
 Rancho Mirage, California

Agenda forthcoming, but educational topics include:

- Asset Allocation
- Private Credit
- Private Equity
- Risk Management
- Economic Outlook
- Alternative Yield
- Manager Sourcing
- Emerging Markets

Link to Conference Registration

Asset Allocation Compliance

Dallas Total Fund Periods Ended As of December 31, 2024

Executive Summary

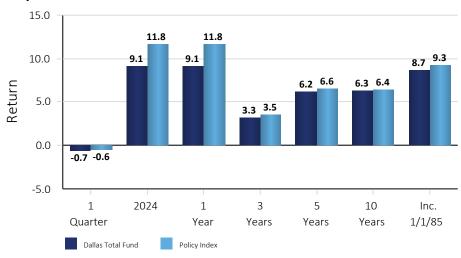


	Asset	Asset	Target	Minimum	Maximum	Target
	Allocation	Allocation	Allocation	Allocation	Allocation	Rebalance
	\$	(%)	(%)	(%)	(%)	\$
Dallas Total Fund	3,762,181,777	100.0	100.0			
Domestic Equity Composite	418,567,907	11.1	12.0	7.0	17.0	32,893,906
Global Low Volatility Composite	390,491,013	10.4	10.0	5.0	15.0	-14,272,835
International Equity Composite	449,811,685	12.0	11.5	6.5	16.5	-17,160,780
Global Equity Composite	197,390,645	5.2	5.0	2.5	10.0	-9,281,556
REIT Composite	94,723,427	2.5	2.5	0.0	7.5	-668,883
Private Core Real Estate Composite	217,288,325	5.8	5.0	0.0	10.0	-29,179,236
Private Value-Add Real Estate	125,648,006	3.3	2.5	0.0	7.5	-31,593,462
Private Equity Composite	365,746,843	9.7	10.0	5.0	15.0	10,471,335
Credit Opportunities Composite	163,529,644	4.3	4.0	1.0	7.0	-13,042,373
Private Credit Composite	7,150,981	0.2	2.5	0.0	5.0	86,903,563
Fixed Income Composite	583,539,081	15.5	17.5	12.5	22.5	74,842,730
High Yield Composite	381,719,127	10.1	10.0	5.0	15.0	-5,500,949
Global Listed Infrastructure Composite	197,858,330	5.3	5.0	0.0	10.0	-9,749,241
Marketable Alternatives Composite	105,870,917	2.8	2.5	0.0	5.0	-11,816,373

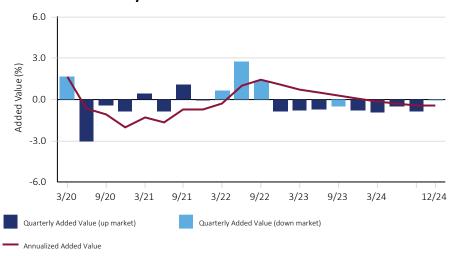
Composite Performance Summary

Dallas Total Fund Periods Ended December 31, 2024

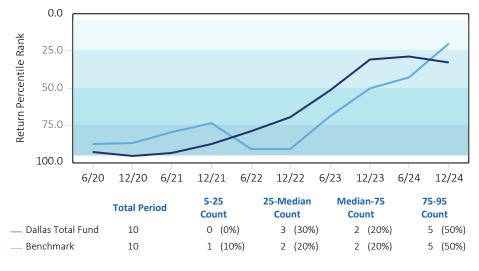
Comparative Performance



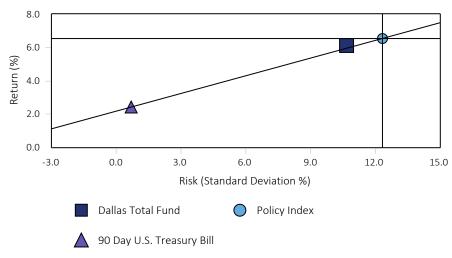
Added Value History



Rolling Percentile Rank: All Public Plans > \$1B-Total Fund



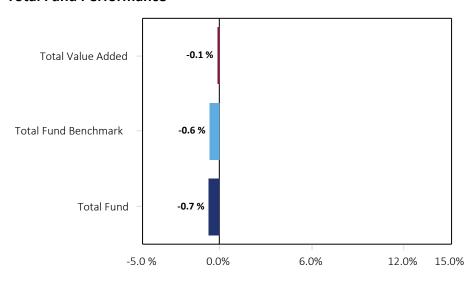
Risk and Return 01/1/20 - 12/31/24



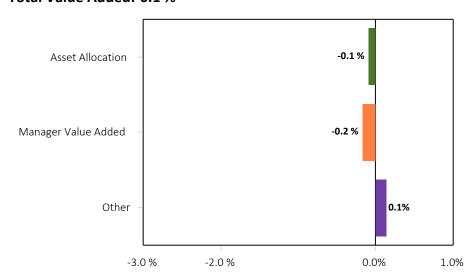
Total Fund Attribution

Dallas Total Fund Periods Ended 1 Quarter Ending December 31, 2024

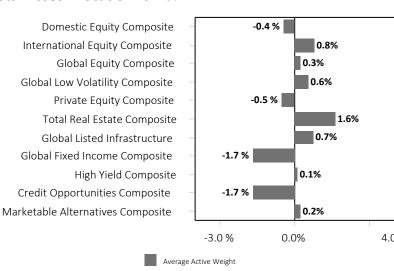
Total Fund Performance



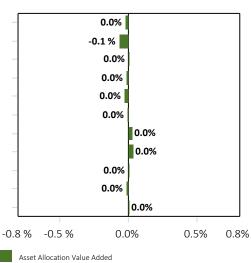
Total Value Added:-0.1 %



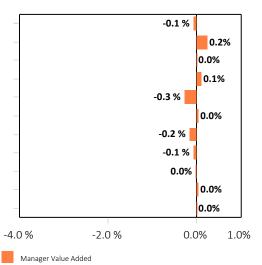
Total Asset Allocation:-0.1 %



Asset Allocation Value Added:-0.1 %



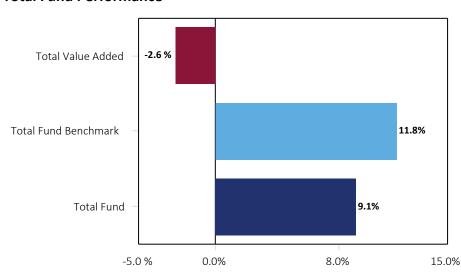
Total Manager Value Added:-0.2 %



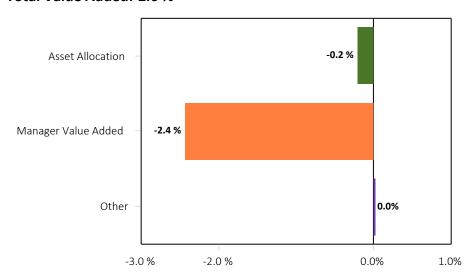
Total Fund Attribution

Dallas Total Fund Periods Ended 1 Year Ending December 31, 2024

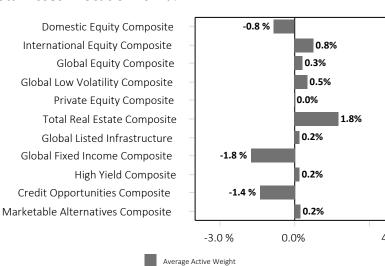
Total Fund Performance



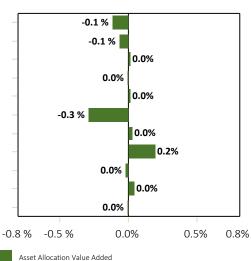
Total Value Added:-2.6 %



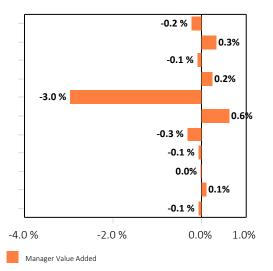
Total Asset Allocation:-0.2 %



Asset Allocation Value Added:-0.2 %



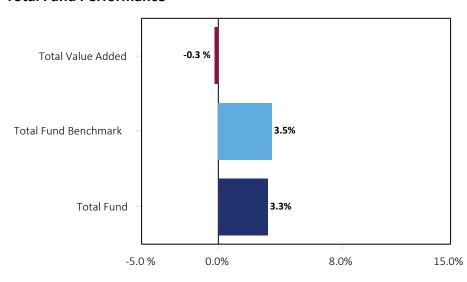
Total Manager Value Added:-2.4 %



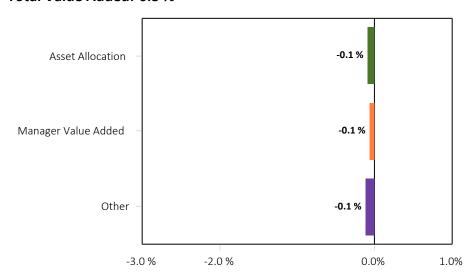
Total Fund Attribution

Dallas Total Fund Periods Ended 3 Years Ending December 31, 2024

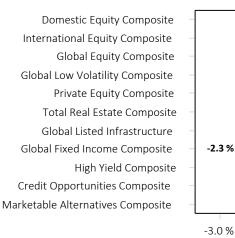
Total Fund Performance

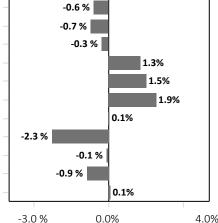


Total Value Added:-0.3 %

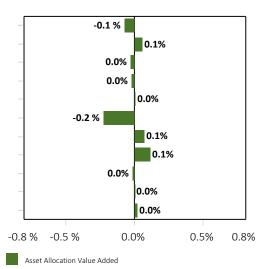


Total Asset Allocation:-0.1 %

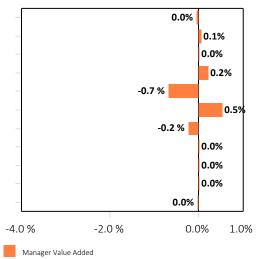




Asset Allocation Value Added:-0.1 %



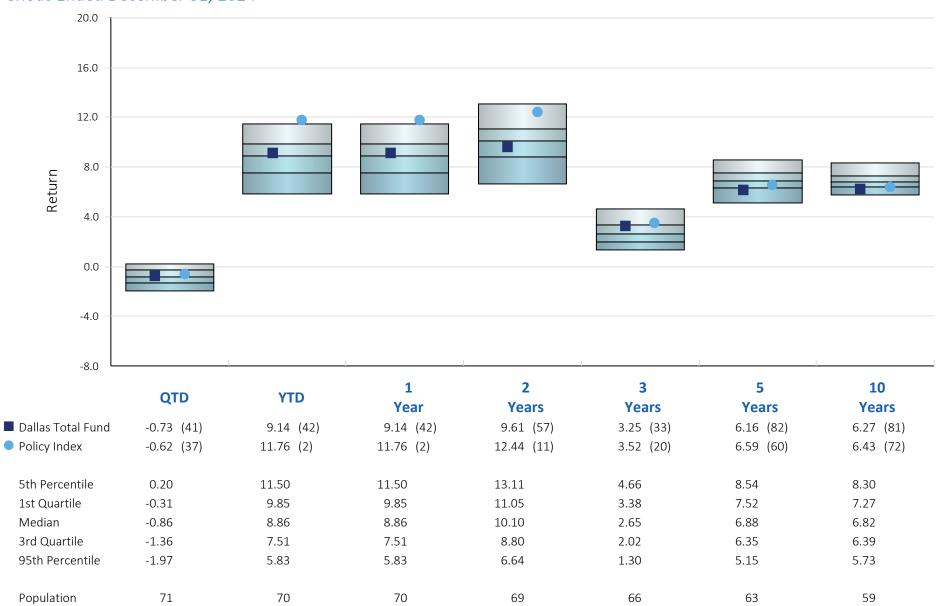
Total Manager Value Added:-0.1 %



Average Active Weight

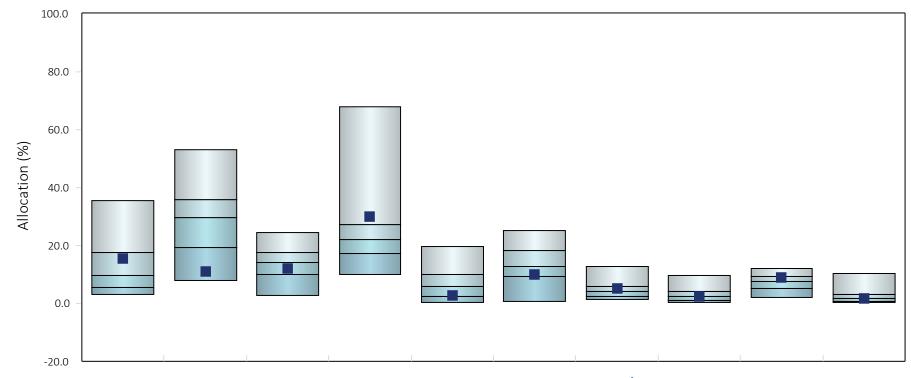
Plan Sponsor Peer Group Analysis

Dallas Total Fund vs All Public Plans > \$1B-Total Fund Periods Ended December 31, 2024



Plan Sponsor TF Asset Allocation

Dallas Total Fund vs All Public Plans > \$1B-Total Fund Periods Ended December 31, 2024



	Global Equity	US Equity	Global ex- US Equity	US Fixed	Hedge Funds	Private Equity	Assets/Com mod	Real Estate - Public	Real Estate - Private	Cash & Equivalents	
■ Dallas Total Fund	15.63	11.13	11.96	30.00	2.81	9.91	5.26	2.52	9.12	1.67	
5th Percentile	35.65	53.03	24.34	67.82	19.49	25.16	12.60	9.78	12.08	10.49	
1st Quartile	17.52	35.85	17.55	27.30	10.02	18.30	5.99	4.07	9.47	3.06	
Median	9.74	29.61	14.31	21.91	5.96	12.76	4.21	2.37	7.47	1.60	
3rd Quartile	5.35	19.20	9.95	17.36	2.51	9.45	2.37	1.01	5.09	0.85	
95th Percentile	3.13	8.07	2.75	10.17	0.22	0.65	1.38	0.38	1.95	0.33	
Population	31	106	106	117	26	58	43	20	55	93	

Dallas Total Fund
Periods Ended December 31, 2024

				Allocation						
	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date	Market Value \$	%
Domestic Equity Composite	1.99	21.68	21.68	7.43	13.34	11.83	10.64	1/1/1990	418,567,907	11.13
International Equity Composite	-5.74	7.99	7.99	1.13	5.63	5.91	5.60	1/1/1990	449,811,685	11.96
Global Equity Composite	-0.89	15.76	15.76	5.56	9.30	8.35	9.29	9/1/2012	197,390,645	5.25
Global Low Volatility Composite	-2.50	13.69	13.69	4.37	5.68		7.61	7/1/2015	390,491,013	10.38
Private Equity Composite	1.46	1.44	1.44	5.47	11.05	11.55	12.70	6/1/2009	365,746,843	9.72
Total Real Estate Composite	-0.65	1.93	1.93	-0.21	4.71	6.05	6.44	1/1/1990	437,659,758	11.63
Global Listed Infrastructure Composite	5.37	31.69	31.69	21.03	11.70	3.05	7.26	1/1/2012	197,858,330	5.26
Fixed Income Composite	-3.47	0.79	0.79	-2.28	0.08	1.73	4.20	10/1/1995	583,539,081	15.51
High Yield Composite	0.05	8.19	8.19	3.37	4.32	4.93	6.14	1/1/1997	381,719,127	10.15
Credit Opportunities Composite	0.87	10.24	10.24	3.25	3.52		5.26	2/1/2016	163,529,644	4.35
Private Credit Composite	6.91						14.17	5/1/2024	7,150,981	0.19
Marketable Alternatives Composite	3.56	9.73	9.73				7.49	10/1/2022	105,870,917	2.81
Managed Short Term Composite	1.17	5.31	5.31	3.91	2.48	1.77	2.87	1/1/1990	62,845,845	1.67
Dallas Total Fund	-0.73	9.14	9.14	3.25	6.16	6.27	8.71	1/1/1985	3,762,181,777	100.00
Policy Index	-0.62	11.76	11.76	3.52	6.59	6.43	9.30			

Domestic Equity
Periods Ended December 31, 2024

			Allocation							
	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date	Market Value \$	%
Systematic Financial	-0.93	10.90	10.90	4.89	9.37	9.92	10.56	8/1/2003	57,339,377	13.70
Russell 2000 Index	0.33	11.54	11.54	1.24	7.40	7.82	8.92			
Channing Capital Russell 2000 Value Index	-0.32 -1.06	10.65 8.05	10.65 8.05	2.85 1.94	8.65 7.29	7.27 7.14	7.18 7.00	12/1/2013	33,172,188	7.93
Domestic Equity Small Cap Composite	-0.71	10.66	10.66	1.27	8.77	8.42	9.28	6/1/2003	90,511,565	21.62
T. Rowe Price S&P 500 Index	3.08 2.41	26.80 25.02	26.80 25.02	10.36 8.94	15.63 14.53	14.04 13.10	11.25 10.56	4/1/2006	161,984,089	38.70
Northern Trust S&P 500 (Lending) S&P 500 Index	2.41 2.41		24.96 25.02	8.96 8.94	14.50 14.53	13.11 13.10	10.96 10.92	1/1/1995	166,072,253	39.68
Domestic Equity Composite	1.99	21.68	21.68	7.43	13.34	11.83	10.64	1/1/1990	418,567,907	100.00
Custom Benchmark ¹	2.63	23.76	23.76	8.12	14.11	12.73	10.82			

¹ Domestic Equity Composite Custom Benchmark: FT Wilshire 5000 (2Q99-Present); S&P 500 (1Q90-1Q99)

International Equity
Periods Ended December 31, 2024

		Performance (%) net of fees								on
	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date	Market Value \$	%
Acadian International	-4.62	9.73	9.73	0.95	6.76	7.50	8.15	4/1/1989	113,495,915	25.23
Custom Benchmark ¹	-7.66	3.36	3.36	-1.47	4.30	5.66	5.76			
Ativo International	-7.32	1.04	1.04	-1.01	2.79		2.98	1/1/2018	26,405,378	5.87
MSCI EAFE (Net)	-8.11	3.82	3.82	1.65	4.73		4.10			
AQR Capital Management	-5.84	10.51	10.51	3.34	4.82	5.09	3.85	4/1/2006	134,781,699	29.96
Custom Benchmark ²	-7.60	5.53	5.53	0.82	4.10	4.80	3.45			
Baillie Gifford	-7.77	5.85	5.85	-3.56	2.57		5.06	4/1/2019	79,182,134	17.60
MSCI AC World ex USA (Net)	-7.60	5.53	5.53	0.82	4.10		5.32			
Earnest Partners	-4.75	6.29	6.29	2.94	6.92		7.72	4/1/2019	95,946,558	21.33
MSCI AC World ex USA (Net)	-7.60	5.53	5.53	0.82	4.10		5.32			
International Equity Composite	-5.74	7.99	7.99	1.13	5.63	5.91	5.60	1/1/1990	449,811,685	100.00
Custom Benchmark ³	-7.61	5.23	5.23	0.50	4.12	4.91	4.60			

¹ Acadian Custom Benchmark: MSCI ACWI x-US Small Cap (3Q09-Present); MSCI EAFE Small Cap (4Q99-2Q09); S&P/Citigroup Eur/Pac EMI Index (2Q96-3Q99); MSCI EAFE (2Q89-1Q96)

² AQR Custom Benchmark: MSCI ACWI x-US (2Q10-Present); MSCI EAFE (1Q06-1Q10)

³ International Equity Composite Custom Benchmark: MSCI ACWI x-US IMI (2Q10-Present); MSCI ACWI x-US (1Q99-1Q10); Wilshire Non-US/Non-SA (2Q96-4Q98; MSCI EAFE (4Q89-1Q96)

Global Equity
Periods Ended December 31, 2024

					Allocati	on				
	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date	Market Value \$	%
Ariel Global	-3.92	7.38	7.38	4.80	7.00		6.57	1/1/2018	41,291,484	20.92
MSCI AC World Index (Net)	-0.99	17.49	17.49	5.44	10.06		9.21			
NT ACWI IMI Fund	-1.16						-1.16	10/1/2024	53,268,766	26.99
MSCI AC World IMI Index (Net)	-1.24						-1.24			
Wellington	0.40	20.40	20.40	5.45	10.55	9.28	11.27	9/1/2012	102,830,395	52.09
MSCI AC World Index (Net)	-0.99	17.49	17.49	5.44	10.06	9.23	10.12			
Global Equity Composite	-0.89	15.76	15.76	5.56	9.30	8.35	9.29	9/1/2012	197,390,645	100.00
MSCI AC World Index (Net)	-0.99	17.49	17.49	5.44	10.06	9.23	10.12			

Low Volatility *Periods Ended December 31, 2024*

				Perforn	nance (%) net	of fees		Allocation	
	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date	Market Value \$	%
Acadian Global Low Vol.	-1.55	15.99	15.99	5.92	6.54		7.85	7/1/2015	198,776,472	50.90
MSCI AC World Index (Net)	-0.99	17.49	17.49	5.44	10.06		9.44			
MSCI AC World Minimum Volatility Index (Net)	-3.49	11.37	11.37	2.48	4.72		7.06			
BlackRock Global Low Vol.	-3.46	11.40	11.40	2.81	4.81		7.35	7/1/2015	191,714,541	49.10
MSCI AC World Minimum Volatility Index (Net)	-3.49	11.37	11.37	2.48	4.72		7.06			
Global Low Volatility Composite	-2.50	13.69	13.69	4.37	5.68		7.61	7/1/2015	390,491,013	100.00
MSCI AC World Minimum Volatility Index (Net)	-3.49	11.37	11.37	2.48	4.72		7.06			

Private Equity Summary

Periods Ended as of December 31, 2024

	Month-End Market Value	Commitment Value	Drawn Down Capital	Cash Distributions	Inception Date	IRR Since Inception	TVPI Multiple ¹
Hamilton Lane Secondary Fund II	1	25,000,000	22,058,532	31,298,964	Jul-09	13.4%	1.4
Hamilton Lane Secondary Fund III	456,598	30,000,000	23,372,292	29,522,574	Nov-12	8.7%	1.3
Hamilton Lane Secondary Fund IV	9,988,385	30,000,000	25,907,343	29,716,392	Mar-17	14.5%	1.5
Hamilton Lane Secondary Fund V	47,823,322	65,000,000	43,128,993	19,574,475	Mar-20	15.6%	1.6
Hamilton Lane Secondary Fund VI-A	12,524,330	30,000,000	11,211,545	813,729	Feb-23	31.0%	1.2
Hamilton Lane Fund VII Composite	10,583,728	50,000,000	45,600,834	58,182,337	Jan-10	5.6%	1.5
Hamilton Lane Fund VIII (Global)	13,087,326	30,000,000	22,270,594	20,677,688	Nov-12	6.5%	1.5
GCM Grosvenor - Partnership, L.P.	19,793,280	75,000,000	95,722,822	140,126,072	Jun-11	13.9%	1.7
GCM Grosvenor - Partnership II, L.P. (2014)	34,283,551	60,000,000	73,566,185	81,805,018	Jul-14	14.0%	1.6
GCM Grosvenor - Partnership II, L.P. (2015)	63,224,559	55,000,000	49,450,168	13,612,376	Dec-15	11.3%	1.6
GCM Grosvenor - Partnership II, L.P. (2017)	31,096,904	30,000,000	32,380,286	15,179,092	Jan-18	12.2%	1.4
GCM Grosvenor - Advance Fund, L.P.	8,330,305	10,000,000	7,362,810	345,493	Jun-21	8.6%	1.2
GCM Grosvenor - Partnership II, L.P. (2022)	7,469,859	20,000,000	7,070,263	5,461	May-22	3.9%	1.1
Fairview Capital - Lone Star Fund I	47,414,783	40,000,000	33,903,847	21,375,519	Aug-15	12.5%	2.0
Fairview Capital - Lone Star Fund II	35,643,261	30,000,000	23,900,777	4,457,117	Dec-18	13.0%	1.7
Fairview Capital - Lone Star Fund III - A	18,905,758	25,000,000	17,466,368	96,325	Apr-21	2.8%	1.1
Fairview Capital - Lone Star Fund III - B	1,868,079	20,000,000	2,163,208	-	Dec-22	-40.2%	0.9
Fairview Capital - Private Markets Fund VI	3,252,814	10,000,000	3,770,484	210,556	Apr-22	-5.8%	0.9
Total Private Equity Composite	365,746,843	635,000,000	540,307,350	466,999,187	Jul-09	12.5%	1.5

Public Market Equivalent (PME) ²

665,238,487

17.5%

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¹ Total Value to Paid-in Capital ("TVPI") multiple calculation = (market value + distributions) / capital called

² The Public Market Equivalent (PME) approach creates a hypothetical investment vehicle that mimics the private equity composite cash flows. The performance difference between the PME wehicle and the private equity portfolio is determined by their net asset value (NAV) at the end of the benchmarking period. The performance of the "public market" is simulated using the monthly S&P 500 index returns, plus a 300 BPs annual hurdle rate.

Private Real Estate Summary

Periods Ended as of December 31, 2024

	Month-End Market Value	Commitment Value	Drawn Down Capital	Cash Distributions	Inception Date	IRR Since Inception	TVPI Multiple ¹
Invesco II	76,984,932	65,188,333	65,188,333	19,614,151	Jan-14	5.2%	1.5
Total Direct Private Real Estate	76,984,932	65,188,333	65,188,333	19,614,151	Jan-14	5.2%	1.5
	Month-End Market Value	Commitment Value	Drawn Down Capital	Cash Distributions	Inception Date	IRR Since Inception	TVPI Multiple
Heitman America Real Estate Trust	81,375,773	75,000,000	88,210,161	103,497,653	Dec-10	6.4%	2.1
Invesco Core Real Estate USA	58,927,620	75,000,000	76,921,500	103,720,037	Oct-10	9.9%	2.1
Total Core Private Real Estate	140,303,393	150,000,000	165,131,661	207,217,690	Oct-10	8.5%	2.1
	Month-End Market Value	Commitment Value	Drawn Down Capital	Cash Distributions	Inception Date	IRR Since Inception	TVPI Multiple
AEW Partners Real Estate Fund IX	38,341,073	45,000,000	37,592,593	4,134,816	Mar-21	5.3%	1.1
AEW PIX MM Co-Invest	4,196,997	10,000,000	5,132,075	825,454	Nov-21	-0.1%	1.0
AEW PIX Oakland Park Co-Invest	5,165,449	5,000,000	5,000,000	764,960	Feb-22	5.9%	1.2
Virtus Real Estate Capital III	50,422,548	43,281,585	44,340,405	3,714,853	Jan-21	7.9%	1.2
Brasa Real Estate Fund II	16,805,355	20,000,000	18,032,416	1,133,526	Jul-22	-0.3%	1.0
Long Wharf Real Estate Partners VII	10,716,584	20,000,000	10,699,062	-	Mar-23	-4.5%	1.0
Total Value-Add Private Real Estate	125,648,006	143,281,585	120,796,551	10,573,609	Jan-21	5.4%	1.1

¹ Total Value to Paid-in Capital ("TVPI") multiple calculation = (market value + distributions) / capital called

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Real Estate

				Perforn	nance (%) net	of fees		Allocation	
	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date	Market Value \$	%
Adelante Capital Management	-4.65	9.77	9.77	-2.36	5.43	6.15	9.14	10/1/2001	47,016,635	49.64
Wilshire U.S. Real Estate Securities Index	-4.98	9.15	9.15	-2.41	4.57	5.88	9.21			
CenterSquare	-5.37	11.14	11.14	-1.02	5.75		7.88	6/1/2018	47,706,792	50.36
FTSE NAREIT Equity REIT Index	-6.21	8.73	8.73	-2.20	4.27		6.68			
REIT Composite	-5.01	10.46	10.46	-1.69	5.59	6.17	9.26	10/1/2001	94,723,427	100.00
Wilshire U.S. Real Estate Securities Index	-4.98	9.15	9.15	-2.41	4.57	5.88	9.21			

Global Listed Infrastructure
Periods Ended December 31, 2024

				Perforn	nance (%) net	of fees		Allocation	
	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date	Market Value \$	%
CIBC	12.49	44.30	44.30	31.01	19.53	6.53	10.14	1/1/2012	73,682,707	37.24
CIBC Policy ¹	13.47	49.71	49.71	35.37	19.91	5.60	7.02			
Harvest Fund Advisors MLP Harvest Policy ²			41.76 49.71		20.00 19.91	6.85 5.60	9.98 7.02	1/1/2012	78,433,715	39.64
C&S Global Listed Infrastructure	-6.92	11.39	11.39	3.12			8.10	11/1/2020	45,741,909	23.12
FTSE Global Core Infrastructure 50/50 (Net)	-5.74	9.53	9.53	2.12			7.21			
Global Listed Infrastructure Composite	5.37	31.69	31.69	21.03	11.70	3.05	7.26	1/1/2012	197,858,330	100.00
Global Listed Infrastructure Benchmark ³	8.51	38.82	38.82	26.60	13.32	2.66	4.72			

¹ CIBC Policy: Alerian Midstream Energy Index (5/24-Present); Alerian MLP Index (1Q12-4/24)

² Harvest Policy: Alerian Midstream Energy Index (5/24-Present); Alerian MLP Index (1Q12-4/24)

³ Global Listed Infrastructure Benchmark: 75% Alerian Midstream Energy Index / 25% FTSE Global Core Infrastructure 50/50 (5/24-Present) 75% Alerian MLP / 25% FTSE Global Core Infrastructure 50/50 (4Q20-4/24); Alerian MLP (1Q12-3Q20)

Fixed Income
Periods Ended December 31, 2024

				Perforn	nance (%) net	of fees		Allocati	on
	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date	Market Value \$	%
Garcia Hamilton	-4.40	-0.14	-0.14	-2.31	-0.38	1.27	1.79	11/1/2013	189,012,833	32.39
Blmbg. U.S. Aggregate Index	-3.06	1.25	1.25	-2.41	-0.33	1.35	1.65			
Wellington Core Bond Blmbg. U.S. Aggregate Index	-3.00 -3.06	2.26 1.25	2.26 1.25				2.21 1.45	7/1/2022	199,941,669	34.26
NT Aggregate Bond Index	-3.04						-3.04	10/1/2024	194,579,090	33.34
Blmbg. U.S. Aggregate Index	-3.06						-3.06			
Western Asset Management									5,489	0.00
Fixed Income Composite	-3.47	0.79	0.79	-2.28	0.08	1.73	4.20	10/1/1995	583,539,081	100.00
Blmbg. U.S. Aggregate Index	-3.06	1.25	1.25	-2.41	-0.33	1.35	4.22			

Opportunistic Credit
Periods Ended December 31, 2024

				Perforn	nance (%) net	of fees		Allocation
	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date	Market Value \$
Neuberger Berman	0.87	10.24	10.24	3.25	3.52		5.26	2/1/2016	163,529,644
Custom Benchmark ¹	0.16	7.92	7.92	3.05	3.38		5.32		

¹ Custom Benchmark: 33% Morningstar LSTA U.S. Leveraged Loan Index / 33% ICE BofA U.S. High Yield Constrained Index / 33% JPM EMBI Global Diversified

High Yield
Periods Ended December 31, 2024

				Perforn	nance (%) net	of fees		Allocati	ion
	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date	Market Value \$	%
Oaktree Capital Management	-0.08	7.97	7.97	3.24	4.29	4.60	6.29	2/1/1997	193,324,556	50.65
FTSE High Yield Market Capped Index	0.22	8.53	8.53	3.20	4.08	4.93				
FTSE High Yield Cash Pay	0.21	8.34	8.34	3.11	4.17	5.00	6.41			
BlackRock	0.17	8.39	8.39	3.50	4.34	5.02	5.94	10/1/2006	188,394,571	49.35
FTSE High Yield Market Capped Index	0.22	8.53	8.53	3.20	4.08	4.93	6.18			
FTSE High Yield Cash Pay	0.21	8.34	8.34	3.11	4.17	5.00	6.25			
High Yield Composite	0.05	8.19	8.19	3.37	4.32	4.93	6.14	1/1/1997	381,719,127	100.00
FTSE High Yield Cash Pay	0.21	8.34	8.34	3.11	4.17	5.00	6.42			

Private Credit
Periods Ended December 31, 2024

		Performance (%) net of fees							Allocat	tion
	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date	Market Value \$	%
Silver Point DOF II	10.24						43.60	6/1/2024	2,516,348	35.19
MGG Structured Solutions	4.93						4.93	8/1/2024	4,634,633	64.81
Private Credit Composite	6.91						14.17	6/1/2024	7,150,981	100.00

Marketable Alternatives *Periods Ended December 31, 2024*

		Perf	orman	of fees	Allocati	on	
	QTD	YTD	1 Year	Since Inception	Inception Date	Market Value \$	%
Davidson Kempner	3.47	9.91	9.91	7.69	10/1/2022	53,160,195	50.21
HFRI Event-Driven Total Index	3.91	14.72	14.72	10.59			
Value Added	-0.44	-4.81	-4.81	-2.90			
Hudson Bay Capital	3.64	9.55	9.55	7.28	10/1/2022	52,710,722	49.79
HFRI Relative Value Total Index	2.64	9.80	9.80	7.49			
Value Added	1.00	-0.25	-0.25	-0.20			
Marketable Alternatives Composite	3.56	9.73	9.73	7.49	10/1/2022	105,870,917	100.00
Marketable Alternatives Policy ¹	3.28	12.26	12.26	9.05			
Value Added	0.28	-2.52	-2.52	-1.57			

¹ Marketable Alternatives Policy: 50% HFRI Event-Driven Total Index / 50% HFRI Relative Value Total Index

Cash Flow Summary

Dallas Total Fund 1 Quarter Ending December 31, 2024

	Begin Value	Net Cash Flow	Fees	Expenses	Capital Apprec./	End Value
					Deprec.	
Dallas Total Fund	3,844,283,135	-50,111,513	-3,268,394	-1,460,474	-27,260,977	3,762,181,777
Domestic Equity Composite	429,708,202	-19,996,959	-329,495	-4,028	9,190,188	418,567,907
Northern Trust S&P 500 (Lending)	162,167,852	3,041		-3,041	3,904,402	166,072,253
Smith Graham						
T. Rowe Price	176,382,965	-20,000,000	-125,683	-412	5,727,219	161,984,089
Domestic Equity Small Cap Composite	91,157,385		-203,812	-575	-441,433	90,511,565
Systematic Financial	57,879,331		-124,564	-296	-415,094	57,339,377
Channing Capital	33,278,054		-79,248	-279	-26,339	33,172,188
Total Real Estate Composite	442,563,982	-1,970,567	-570,700	-54,957	-2,308,001	437,659,758
REIT Composite	99,724,252		-131,537	-302	-4,868,986	94,723,427
Adelante Capital Management	49,309,591		-71,051	-233	-2,221,672	47,016,635
CenterSquare	50,414,661		-60,486	-69	-2,647,315	47,706,792
Private Core Real Estate Composite	222,864,685	-6,616,452	-319,916		1,360,008	217,288,325
Heitman America Real Estate Trust, LP	83,827,906	-3,548,279	-188,911		1,285,058	81,375,773
Invesco Core Real Estate USA, LLC	62,024,709	-2,287,302	-131,005		-678,782	58,927,620
Invesco II	77,012,071	-780,872			753,733	76,984,932
Private Value-Add Real Estate	119,975,045	4,645,886	-119,247	-54,655	1,200,977	125,648,006
Virtus Real Estate Capital III	49,088,050				1,334,498	50,422,548
AEW PARTNERS REAL ESTATE FUND IX	37,528,820	970,111			-157,858	38,341,073
AEW PIX MM CO-INVEST	3,937,371	290,297			-30,671	4,196,997
AEW PIX OAKLAND PARK CO-INVEST	5,251,298	-39,063			-46,786	5,165,449
Brasa Real Estate Fund II	16,008,244	866,474			-69,363	16,805,355
Private Equity Composite	358,396,775	2,437,010	-86,611	-312,305	5,311,975	365,746,843
Fairview Capital - Lone Star Fund I	47,756,713	-578,307		-2,737	239,114	47,414,783
Fairview Capital - Lone Star Fund II	35,996,851	-344,230		-5,390	-3,969	35,643,261

Cash Flow Summary

Dallas Total Fund 1 Quarter Ending December 31, 2024

	Begin Value	Net Cash Flow	Fees	Expenses	Capital Apprec./	End Value
					Deprec.	
Fairview Capital - Lone Star Fund III - A	18,096,637	-96,325			905,446	18,905,758
Fairview Capital - Lone Star Fund III - B	802,689	1,060,571	4,819			1,868,079
Fairview Private Makets Fund VI	2,902,814	350,000				3,252,814
Grosvenor Composite	161,702,674	-453,554			2,949,338	164,198,458
Hamilton Lane Secondary Fund II	86,033	-76,175		-8,464	-1,393	1
Hamilton Lane Secondary Fund III	1				456,597	456,598
Hamilton Lane Secondary Fund IV	11,363,808	-305,475		-295,714	-774,234	9,988,385
Hamilton Lane Secondary Fund V	47,216,441				606,881	47,823,322
Hamilton Lane Fund VIII (Global)	13,426,835	-353,141	-40,375		54,007	13,087,326
Hamilton Lane Fund VII (Series B)	3,133,462	-86,426	-19,770		-73,286	2,953,980
Hamilton Lane Fund VII (Series A)	8,208,866	-430,148	-31,285		-117,685	7,629,748
International Equity Composite	477,283,175	-77,637	-638,560	-2,845	-26,752,449	449,811,685
Acadian International	118,993,078		-158,993	-108	-5,338,062	113,495,915
Ativo International	28,490,977		-42,381	-53	-2,043,166	26,405,378
AQR Capital Management	143,218,026	-77,637	-182,527	-2,081	-8,174,082	134,781,699
Earnest Partners	100,731,180		-144,998	-411	-4,639,214	95,946,558
Baillie Gifford	85,849,913		-109,661	-193	-6,557,925	79,182,134
Global Equity Composite	200,085,343	-912,433	-372,651	-1,986	-1,407,629	197,390,645
Ariel Global	42,974,817	-330	-213,571	-56	-1,469,377	41,291,484
NT ACWI IMI Fund	53,894,433	689	,	-1,132	-625,224	53,268,766
Wellington	102,417,408		-159,081	-554	572,622	102,830,395
Clabal Law Valatility Commonity	400 502 804	-323	100 425	200	0.022.747	200 401 012
Global Low Volatility Composite	400,503,804		-189,425	-296	-9,822,747	390,491,013
Acadian Global Low Vol.	201,932,438	-20,194	-169,555	-296	-2,965,921	198,776,472
BlackRock Global Low Vol.	198,571,366	19,870	-19,870		-6,856,826	191,714,541

Cash Flow Summary

Dallas Total Fund 1 Quarter Ending December 31, 2024

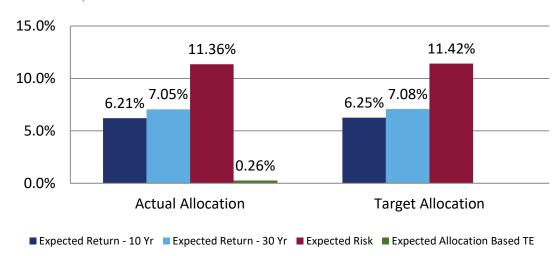
	Begin Value	Net Cash Flow	Fees	Expenses	Capital Apprec./	End Value
					Deprec.	
Global Listed Infrastructure Composite	207,079,332	-21,000,000	-331,435	-1,792	12,112,225	197,858,330
CIBC	65,504,766		-98,909	-773	8,277,623	73,682,707
Harvest Fund Advisors MLP	70,609,435		-132,118	-884	7,957,281	78,433,715
C&S Global Listed Infrastructure	70,965,131	-21,000,000	-100,408	-135	-4,122,679	45,741,909
Fixed Income Composite	606,430,704	-1,841,087	-182,349	-4,026	-20,864,160	583,539,081
Garcia Hamilton	197,721,993		-90,887	-162	-8,618,110	189,012,833
Wellington Core Bond	206,137,186		-91,461	-1,757	-6,102,298	199,941,669
NT Aggregate Bond Index	200,693,680	-4,304		-903	-6,109,382	194,579,090
Western Asset Management	1,877,845	-1,836,783		-1,203	-34,370	5,489
Credit Opportunities Composite	180,931,632	-19,000,003	-119,588	-458	1,718,060	163,529,644
Neuberger Berman	180,931,632	-19,000,003	-119,588	-458	1,718,060	163,529,644
Private Credit Composite	4,603,317	2,154,723			392,941	7,150,981
Silver Point DOF II	1,202,882	1,096,801			216,665	2,516,348
MGG Structured Solutions	3,400,435	1,057,922			176,276	4,634,633
High Yield Composite	381,540,051	5,205	-447,580	-2,095	623,546	381,719,127
Oaktree Capital Management	193,469,224	5,205	-232,543	-1,386	84,056	193,324,556
BlackRock	188,070,827		-215,037	-709	539,490	188,394,571
Marketable Alternatives Composite	102,234,739				3,636,178	105,870,917
Davidson Kempner	51,377,156				1,783,039	53,160,195
Hudson Bay Capital	50,857,583				1,853,139	52,710,722
Managed Short Term Composite	52,922,079	10,090,558		-1,075,688	908,896	62,845,845
Cash Account	52,922,079	10,090,558		-1,075,688	908,896	62,845,845



Risk Analysis & Performance Objectives

Expected Return and Risk

Periods Ended as of December 31, 2024



Actual Asset Allocation

5.3% 2.8% 1.7% 11.1% 9.7% 12.0% 9.1% 5.3% 10.4% 2.5% 10.2% 4.4% 15.5%

■ Global Equity

■ Private Credit

■ Private Equity

International Equity

■ Opportunistic Credit

■ Private Real Estate

Cash

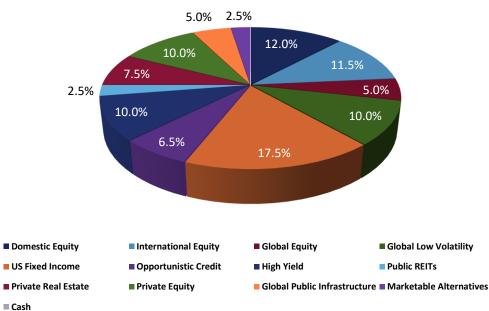
■ Domestic Equity

■ US Fixed Income

■ Marketable Alternatives

■ Public REITs

Target Asset Allocation



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■ Cash

■ Global Low Volatility

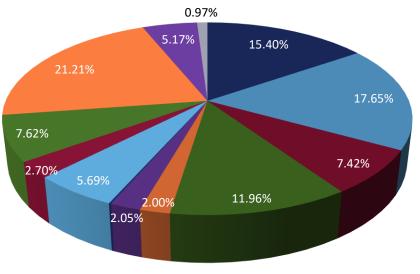
■ Global Public Infrastructure

High Yield

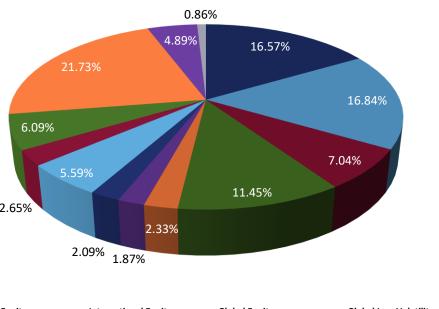
Expected Return and Risk

Periods Ended as of December 31, 2024

Contribution to Total Risk - Actual Allocation



Contribution to Total Risk - Target Allocation



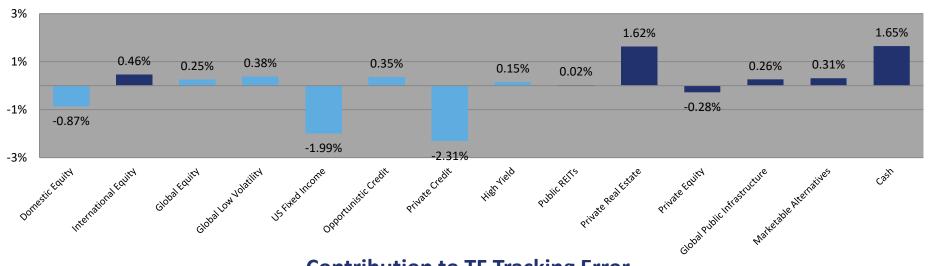


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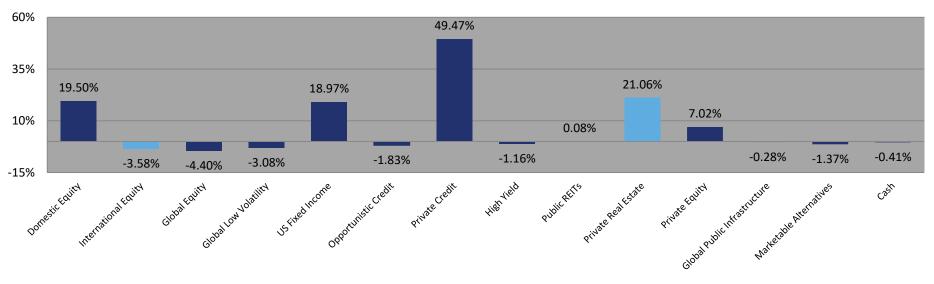
Expected Return and Risk

Periods Ended as of December 31, 2024

Asset Allocation Variance



Contribution to TF Tracking Error



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	1	1	1	1
	Year	Year	Year	Year
	Standard	Sharpe	Tracking	Information
	Deviation	Ratio	Error	Ratio
Dallas Total Fund	5.37	0.71	1.29	-1.88
Policy Index	6.05	1.04	0.00	
DOMESTIC EQUITY				
Domestic Equity Composite	11.00	1.39	1.69	-1.01
Custom Benchmark	10.80	1.57	0.00	
Systematic Financial	17.43	0.39	5.09	-0.22
Russell 2000 Index	20.44	0.39	0.00	
Channing Capital	18.09	0.37	5.85	0.33
Russell 2000 Value Index	20.61	0.23	0.00	
T. Rowe Price	10.09	1.92	1.10	1.30
S&P 500 Index	10.22	1.76	0.00	
INTERNATIONAL EQUITY				
International Equity Composite	8.39	0.35	2.18	1.18
Custom Benchmark	8.70	0.04	0.00	
Acadian International	8.59	0.54	4.22	1.41
MSCI AC World ex USA Small Cap (Net)	9.15	-0.15	0.00	
AQR Capital Management	8.75	0.61	3.45	1.34
Custom Benchmark	8.69	0.08	0.00	
Ativo International	9.09	-0.41	2.08	-1.33
MSCI EAFE (Net)	9.61	-0.10	0.00	
Baillie Gifford	9.22	0.11	2.78	0.12
MSCI AC World ex USA (Net)	8.69	0.08	0.00	
Earnest Partners	9.06	0.16	3.01	0.25
MSCI AC World ex USA (Net)	8.69	0.08	0.00	

	1	1	1	1
	Year	Year	Year	Year
	Standard	Sharpe	Tracking	Information
	Deviation	Ratio	Error	Ratio
GLOBAL EQUITY				
Global Equity Composite	8.78	1.14	2.42	-0.62
MSCI AC World Index (Net)	8.78	1.31	0.00	
Wellington	8.75	1.60	2.48	1.00
MSCI AC World Index (Net)	8.78	1.31	0.00	
Ariel Global	10.05	0.25	5.52	-1.62
MSCI AC World Index (Net)	8.78	1.31	0.00	
GLOBAL LOW VOLATILITY				
Global Low Volatility Composite	8.64	0.95	1.05	1.97
MSCI AC World Minimum Volatility Index (Net)	8.71	0.70	0.00	
Acadian Global Low Vol.	8.69	1.18	1.99	2.06
MSCI AC World Minimum Volatility Index (Net)	8.71	0.70	0.00	
REIT's				
REIT Composite	16.19	0.38	0.92	1.25
Wilshire U.S. Real Estate Securities Index	16.46	0.31	0.00	
Adelante Capital Management	16.37	0.34	0.91	0.61
Wilshire U.S. Real Estate Securities Index	16.46	0.31	0.00	
CenterSquare	16.11	0.42	0.81	2.68
FTSE NAREIT Equity REIT Index	16.27	0.28	0.00	
FIXED INCOME				
Fixed Income Composite	6.39	-0.65	0.76	-0.55
Blmbg. U.S. Aggregate Index	5.67	-0.66	0.00	
Garcia Hamilton	7.45	-0.67	1.81	-0.70
Blmbg. U.S. Aggregate Index	5.67	-0.66	0.00	
Wellington Core Bond	5.75	-0.48	0.41	2.40
Blmbg. U.S. Aggregate Index	5.67	-0.66	0.00	

	1	1	1	1
	Year	Year	Year	Year
	Standard	Sharpe	Tracking	Information
	Deviation	Ratio	Error	Ratio
HIGH YIELD				
High Yield Composite	3.03	0.94	0.53	-0.28
FTSE High Yield Cash Pay	3.13	0.96	0.00	
BlackRock	2.78	1.10	0.77	0.04
FTSE High Yield Cash Pay	3.13	0.96	0.00	
Oaktree Capital Management	3.31	0.81	0.49	-0.69
FTSE High Yield Cash Pay	3.13	0.96	0.00	
CREDIT OPPORTUNITIES				
Credit Opportunities Composite	2.81	1.70	0.97	2.21
Custom Benchmark	2.88	0.91	0.00	
Neuberger Berman	2.81	1.70	0.97	2.21
Custom Benchmark	2.88	0.91	0.00	
Global Listed Infrastructure				
Global Listed Infrastructure Composite	13.87	1.71	4.27	-1.26
Global Listed Infrastructure Benchmark	13.63	2.13	0.00	
Harvest Fund Advisors MLP	16.59	1.90	6.03	2.19
Alerian MLP Index	17.36	1.06	0.00	
CIBC	17.41	1.92	6.90	2.20
Alerian MLP Index	17.36	1.06	0.00	
C&S Global Listed Infrastructure	13.19	0.50	1.77	1.01
FTSE Global Core Infra. 50/50 Index (Net)	12.49	0.39	0.00	

	3	3	3	3
	Years	Years	Years	Years
	Standard	Sharpe	Tracking	Information
	Deviation	Ratio	Error	Ratio
Dallas Total Fund	9.02	-0.02	1.88	-0.21
Policy Index	10.36	0.02	0.00	
DOMESTIC EQUITY				
Domestic Equity Composite	17.72	0.28	3.07	-0.20
Custom Benchmark	17.60	0.32	0.00	
Systematic Financial	19.42	0.15	6.64	0.41
Russell 2000 Index	23.30	0.00	0.00	
Channing Capital	22.19	0.06	6.24	0.10
Russell 2000 Value Index	23.44	0.03	0.00	
T. Rowe Price	17.09	0.45	1.11	1.17
S&P 500 Index	17.15	0.37	0.00	
INTERNATIONAL EQUITY				
International Equity Composite	16.42	-0.08	2.48	0.28
Custom Benchmark	16.07	-0.13	0.00	
Acadian International	16.45	-0.09	3.89	0.61
MSCI AC World ex USA Small Cap (Net)	16.81	-0.23	0.00	
AQR Capital Management	15.91	0.05	4.15	0.59
Custom Benchmark	16.02	-0.11	0.00	
Ativo International	16.47	-0.21	2.75	-0.97
MSCI EAFE (Net)	16.61	-0.05	0.00	
Baillie Gifford	20.60	-0.26	6.85	-0.53
MSCI AC World ex USA (Net)	16.02	-0.11	0.00	
Earnest Partners	16.03	0.02	4.07	0.51
MSCI AC World ex USA (Net)	16.02	-0.11	0.00	

	3	3	3	3
	Years	Years	Years	Years
	Standard	Sharpe	Tracking	Information
	Deviation	Ratio	Error	Ratio
GLOBAL EQUITY				
Global Equity Composite	13.77	0.19	3.76	-0.07
MSCI AC World Index (Net)	16.20	0.17	0.00	
Wellington	16.20	0.18	2.89	0.01
MSCI AC World Index (Net)	16.20	0.17	0.00	
Ariel Global	12.25	0.13	8.19	-0.14
MSCI AC World Index (Net)	16.20	0.17	0.00	
GLOBAL LOW VOLATILITY				
Global Low Volatility Composite	11.49	0.10	1.26	1.48
MSCI AC World Minimum Volatility Index (Net)	11.33	-0.07	0.00	
Acadian Global Low Vol.	11.70	0.23	2.43	1.38
MSCI AC World Minimum Volatility Index (Net)	11.33	-0.07	0.00	
REIT's				
REIT Composite	20.62	-0.17	1.34	0.44
Wilshire U.S. Real Estate Securities Index	21.28	-0.19	0.00	
Adelante Capital Management	20.44	-0.20	1.61	-0.07
Wilshire U.S. Real Estate Securities Index	21.28	-0.19	0.00	
CenterSquare	20.86	-0.13	1.13	1.06
FTSE NAREIT Equity REIT Index	20.88	-0.19	0.00	
FIXED INCOME				
Fixed Income Composite	8.61	-0.68	1.23	0.17
Blmbg. U.S. Aggregate Index	7.72	-0.79	0.00	
Garcia Hamilton	9.09	-0.64	1.97	0.11
Blmbg. U.S. Aggregate Index	7.72	-0.79	0.00	

	3	3	3	3	
	Years	Years	Years	Years	
	Standard	Sharpe	Tracking	Information	
	Deviation	Ratio	Error	Ratio	
HIGH YIELD					
High Yield Composite	8.32	-0.02	0.76	0.32	
FTSE High Yield Cash Pay	8.42	-0.05	0.00		
BlackRock	8.00	-0.01	0.91	0.37	
FTSE High Yield Cash Pay	8.42	-0.05	0.00		
Oaktree Capital Management	8.72	-0.03	1.30	0.12	
FTSE High Yield Cash Pay	8.42	-0.05	0.00		
CREDIT OPPORTUNITIES					
Credit Opportunities Composite	7.18	-0.05	1.70	0.12	
Custom Benchmark	7.05	-0.08	0.00		
Neuberger Berman	7.18	-0.05	1.70	0.12	
Custom Benchmark	7.05	-0.08	0.00		
MLP's					
Global Listed Infrastructure Composite	15.80	1.05	4.75	-1.01	
Global Listed Infrastructure Benchmark	17.09	1.25	0.00		
Harvest Fund Advisors MLP	17.94	1.38	6.45	0.37	
Alerian MLP Index	20.01	1.12	0.00		
CIBC	18.94	1.33	6.67	0.41	
Alerian MLP Index	20.01	1.12	0.00		

	5 Years Standard Deviation	5 Years Sharpe Ratio	5	5 Years Information Ratio
			Years Tracking Error	
Dallas Total Fund	10.66	0.38	2.31	-0.26
Policy Index	12.30	0.38	0.00	
DOMESTIC EQUITY				
Domestic Equity Composite	19.29	0.62	3.64	-0.15
Custom Benchmark	18.64	0.67	0.00	
Systematic Financial	21.71	0.41	7.24	0.17
Russell 2000 Index	24.48	0.32	0.00	
Channing Capital	25.13	0.36	7.21	0.16
Russell 2000 Value Index	25.44	0.31	0.00	
T. Rowe Price	18.22	0.76	1.15	0.87
S&P 500 Index	18.06	0.71	0.00	
INTERNATIONAL EQUITY				
International Equity Composite	18.02	0.26	2.42	0.65
Custom Benchmark	17.39	0.18	0.00	
Acadian International	18.91	0.31	4.22	0.52
MSCI AC World ex USA Small Cap (Net)	19.57	0.19	0.00	
AQR Capital Management	17.44	0.22	3.83	0.20
Custom Benchmark	17.14	0.18	0.00	
Ativo International	18.03	0.11	4.15	-0.43
MSCI EAFE (Net)	17.70	0.21	0.00	
GLOBAL EQUITY				
Global Equity Composite	14.86	0.51	3.68	-0.30
MSCI AC World Index (Net)	17.33	0.50	0.00	
Wellington	17.28	0.53	3.27	0.13
MSCI AC World Index (Net)	17.33	0.50	0.00	
Ariel Global	12.98	0.40	8.09	-0.43
MSCI AC World Index (Net)	17.33	0.50	0.00	

	5 Years	5	5 Years Tracking Error	5 Years Information
		Years Sharpe Ratio		
	Standard			
	Deviation			Ratio
GLOBAL LOW VOLATILITY				
Global Low Volatility Composite	13.11	0.30	1.58	0.63
MSCI AC World Minimum Volatility Index (Net)	12.50	0.24	0.00	
Acadian Global Low Vol.	13.63	0.36	2.92	0.65
MSCI AC World Minimum Volatility Index (Net)	12.50	0.24	0.00	
REIT's				
REIT Composite	20.93	0.25	1.42	0.57
Wilshire U.S. Real Estate Securities Index	21.62	0.20	0.00	
Adelante Capital Management	20.61	0.24	1.75	0.34
Wilshire U.S. Real Estate Securities Index	21.62	0.20	0.00	
CenterSquare	21.30	0.26	1.62	0.79
FTSE NAREIT Equity REIT Index	21.82	0.19	0.00	
FIXED INCOME				
Fixed Income Composite	7.39	-0.28	2.02	0.24
Blmbg. U.S. Aggregate Index	6.37	-0.41	0.00	
Garcia Hamilton	7.39	-0.35	1.76	0.01
Blmbg. U.S. Aggregate Index	6.37	-0.41	0.00	
HIGH YIELD				
High Yield Composite	9.07	0.24	1.44	0.08
FTSE High Yield Cash Pay	9.33	0.22	0.00	
BlackRock	9.16	0.24	2.45	0.06
FTSE High Yield Cash Pay	9.33	0.22	0.00	
Oaktree Capital Management	9.18	0.24	1.25	0.08
FTSE High Yield Cash Pay	9.33	0.22	0.00	
CREDIT OPPORTUNITIES				
Credit Opportunities Composite	9.61	0.16	1.73	0.13

	5	5	5	5
	Years	Years	Years	Years
	Standard	Sharpe	Tracking	Information
	Deviation	Ratio	Error	Ratio
Custom Benchmark	8.74	0.15	0.00	
Neuberger Berman	9.61	0.16	1.73	0.13
Custom Benchmark	8.74	0.15	0.00	
MLP's				
Global Listed Infrastructure Composite	29.09	0.46	9.60	-0.44
Global Listed Infrastructure Benchmark	36.97	0.47	0.00	
Harvest Fund Advisors MLP	29.20	0.70	11.78	0.04
Alerian MLP Index	38.58	0.52	0.00	
CIBC	32.53	0.65	8.67	0.13
Alerian MLP Index	38.58	0.52	0.00	

	10	10	10	10 Years Information Ratio
	Years	Years Sharpe Ratio	Years	
	Standard Deviation		Excess	
			Risk	
Dallas Total Fund	9.05	0.52	9.09	-0.15
Policy Index	10.20	0.49	10.23	
DOMESTIC EQUITY				
Domestic Equity Composite	16.43	0.66	16.46	-0.23
Custom Benchmark	15.72	0.73	15.74	
Systematic Financial	18.68	0.51	18.73	0.27
Russell 2000 Index	20.64	0.38	20.68	
Channing Capital	21.64	0.35	21.69	0.04
Russell 2000 Value Index	21.16	0.35	21.21	
T. Rowe Price	15.47	0.82	15.48	0.77
S&P 500 Index	15.29	0.77	15.30	
INTERNATIONAL EQUITY				
International Equity Composite	15.55	0.34	15.57	0.50
Custom Benchmark	15.09	0.28	15.11	
Acadian International	16.37	0.42	16.42	0.44
MSCI AC World ex USA Small Cap (Net)	16.37	0.31	16.41	
AQR Capital Management	15.27	0.29	15.28	0.10
Custom Benchmark	14.97	0.27	14.98	
Ativo International				
MSCI EAFE (Net)	15.17	0.30	15.18	
GLOBAL EQUITY				
Global Equity Composite	13.50	0.53	13.51	-0.36
MSCI AC World Index (Net)	14.78	0.56	14.79	
Wellington	15.27	0.55	15.27	0.04
MSCI AC World Index (Net)	14.78	0.56	14.79	
Ariel Global				
MSCI AC World Index (Net)	14.78	0.56	14.79	

10-Year Risk Statistics

	10	10	10	10
	Years	Years	Years	Years
	Standard	Sharpe	Excess	Information
	Deviation	Ratio	Risk	Ratio
GLOBAL LOW VOLATILITY				
Global Low Volatility Composite				
MSCI AC World Minimum Volatility Index (Net)	10.60	0.52	10.62	
Acadian Global Low Vol.				
MSCI AC World Minimum Volatility Index (Net)	10.60	0.52	10.62	
REIT's				
REIT Composite	17.52	0.33	17.54	0.15
Wilshire U.S. Real Estate Securities Index	18.01	0.31	18.03	
Adelante Capital Management	17.20	0.33	17.22	0.06
Wilshire U.S. Real Estate Securities Index	18.01	0.31	18.03	
CenterSquare				
FTSE NAREIT Equity REIT Index	18.17	0.30	18.20	
FIXED INCOME				
Fixed Income Composite	5.62	0.02	5.62	0.28
Blmbg. U.S. Aggregate Index	5.01	-0.06	4.97	
Garcia Hamilton	5.63	-0.06	5.62	-0.03
Blmbg. U.S. Aggregate Index	5.01	-0.06	4.97	
HIGH YIELD				
High Yield Composite	7.29	0.46	7.31	-0.08
FTSE High Yield Cash Pay	7.66	0.45	7.67	
BlackRock	7.31	0.47	7.32	-0.01
FTSE High Yield Cash Pay	7.66	0.45	7.67	
Oaktree Capital Management	7.48	0.41	7.50	-0.40
FTSE High Yield Cash Pay	7.66	0.45	7.67	
CREDIT OPPORTUNITIES				
Credit Opportunities Composite				

10-Year Risk Statistics

	10	10	10	10
	Years	Years	Years	Years
	Standard	Sharpe	Excess	Information
	Deviation	Ratio	Risk	Ratio
Custom Benchmark				
Neuberger Berman				
Custom Benchmark				
MLP's				
Global Listed Infrastructure Composite	25.26	0.18	25.28	-0.13
Global Listed Infrastructure Benchmark	29.81	0.19	29.83	
Harvest Fund Advisors MLP	25.40	0.33	25.41	0.16
Alerian MLP Index	30.86	0.22	30.89	
CIBC	27.50	0.31	27.52	0.25
Alerian MLP Index	30.86	0.22	30.89	

DOMESTIC EQUITY

	Pe	Performance (%) net of fees				
	3	5	Since	Inception		
	Years	Years	Inception	Date		
DOMESTIC EQUITY						
T. Rowe Price	10.36	15.63	11.25	4/1/2006		
Standard & Poor's 500 +1%	10.03	15.66	11.66			
Value Added	0.33	-0.03	-0.41			
Systematic Financial	4.89	9.37	10.56	8/1/2003		
Russell 2000 + 1.25%	2.51	8.75	10.28			
Value Added	2.38	0.62	0.27			
Channing Capital	2.85	8.65	7.18	12/1/2013		
Russell 2000 Value + 1.25%	3.22	8.64	8.34			
Value Added	-0.37	0.01	-1.16			

INTERNATIONAL EQUITY

	Pe	Performance (%) net of fees			
	3	5	Since	Inception	
	Years	Years	Inception	Date	
INTERNATIONAL EQUITY					
Acadian International	0.95	6.76	8.15	4/1/1989	
Custom Benchmark + 2%	0.53	6.40	7.88		
Value Added	0.42	0.36	0.27		
AQR Capital Management	3.34	4.82	3.85	4/1/2006	
Custom Benchmark +1.5%	2.33	5.67	5.00		
Value Added	1.01	-0.85	-1.16		
Ativo International	-1.01	2.79	2.98	1/1/2018	
MSCI EAFE Index (N) + 2%	3.70	6.84	6.20		
Value Added	-4.70	-4.04	-3.22		
Baillie Gifford	-3.56	2.57	5.06	4/1/2019	
MSCI ACWI ex US + 2.00%	2.86	6.20	7.44		
Value Added	-6.42	-3.63	-2.38		
Earnest Partners	2.94	6.92	7.72	4/1/2019	
MSCI ACWI ex US + 2.00%	2.86	6.20	7.44		
Value Added	0.08	0.71	0.28		

GLOBAL EQUITY

	Pe	Performance (%) net of fees				
	3	5	Since	Inception		
	Years	Years	Inception	Date		
GLOBAL EQUITY						
Wellington	5.45	10.55	11.27	9/1/2012		
MSCI ACWI (N) + 2%	7.56	12.27	12.32			
Value Added	-2.11	-1.72	-1.05			
Ariel Global	4.80	7.00	6.57	1/1/2018		
MSCI ACWI (N) + 1.5%	7.02	11.71	10.84			
Value Added	-2.22	-4.72	-4.28			
Acadian Global Low Vol.	5.92	6.54	7.85	7/1/2015		
MSCI ACWI (N) + 2%	7.56	12.27	11.63			
Value Added	-1.63	-5.73	-3.78			

REAL ESTATE

	Pe	Performance (%) net of fees				
	3 5 Since Inception					
	Years	Years	Inception	Date		
REAL ESTATE						
Adelante Capital Management	-2.36	5.43	9.14	10/1/2001		
Wilshire Real Est. Secs + 1%	-1.42	5.62	10.30			
Value Added	-0.94	-0.19	-1.16			
CenterSquare	-1.02	5.75	7.88	6/1/2018		
Wilshire Real Est. Secs + 1%	-1.43	5.61	7.83			
Value Added	0.41	0.14	0.05			

FIXED INCOME

	Pe	Performance (%) net of fees				
	3	5	Since	Inception		
	Years	Years	Inception	Date		
FIXED INCOME						
Garcia Hamilton	-2.31	-0.38	1.79	11/1/2013		
Bloomberg Aggregate + 0.5%	-1.92	0.17	2.15			
Value Added	-0.39	-0.55	-0.36			
HIGH YIELD						
Oaktree Capital Management	3.24	4.29	6.16	4/1/1988		
FTSE HY Cash Pay + 1%	4.15	5.21				
Value Added	-0.90	-0.92				
BlackRock	3.50	4.34	5.94	10/1/2006		
FTSE HY Cash Pay + 1%	4.14	5.21	7.30			
Value Added	-0.64	-0.87	-1.36			
CREDIT OPPORTUNITIES						
Neuberger Berman	3.25	3.52	5.26	2/1/2016		
Custom Benchmark + 1%	4.08	4.41	6.37			
Value Added	-0.84	-0.90	-1.11			

MLP's

	Performance (%) net of fees					
	3 5 Since Inception					
	Years	Years	Inception	Date		
MLP's	ILP's					
Harvest Fund Advisors MLP	30.81	20.00	9.98	1/1/2012		
Alerian MLP Index + 1.5%	29.15	17.29	7.10			
Value Added	1.65	2.70	2.88			
CIBC	31.01	19.53	10.14	1/1/2012		
Alerian MLP Index + 1.5%	29.15	17.29	7.10			
Value Added	1.86	2.24	3.04			

Wilshire

Dallas ERF
Capital Market Return Assumptions Update

Summary Changes

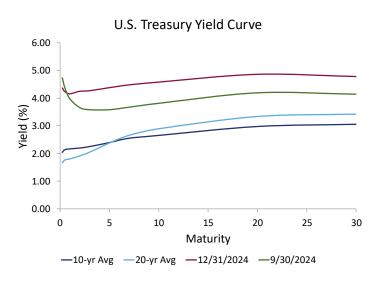
- Yield curve up across most of the maturity spectrum, except the very short term
 - Curve movements resulted in higher forecasts for most fixed income asset classes
 - Slight decrease in spreads for investment grade and high yield bonds
- Yields on most real asset securities are up from last year; inflation assumption up at 2.35%
- Public and Private Equity return expectations fell given elevated valuations

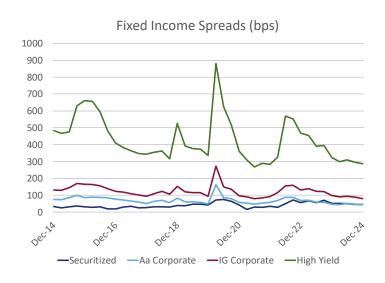
	To	%)	Risk (%)	
Asset Class Assumption	Dec		Dec	
Asset class Assumption	2023	Change	2024	
Inflation	2.25	0.10	2.35	1.75
Cash Equivalents	3.80	-0.20	3.60	0.75
Treasuries	4.25	0.45	4.70	5.00
Core Bonds	4.75	0.45	5.20	4.75
LT Core Bonds	4.70	0.65	5.35	9.90
High Yield Bonds	5.90	0.45	6.35	10.00
Private Credit	8.05	-0.30	7.75	12.75
Global RE Securities	5.75	0.10	5.85	16.55
Private Real Estate	6.10	0.30	6.40	13.95
U.S. Stocks	5.00	-0.65	4.35	17.00
Dev. ex-U.S. Stocks	6.00	-0.65	5.35	18.00
Emerging Market Stocks	6.25	-0.65	5.60	26.00
Private Equity	7.60	-1.35	6.25	29.65
Global 60/40 (ACWI/U.S. Core)	5.55	-0.25	5.30	10.75

Relative Return (%)

Implied Risk Premia	Dec		Dec
implied Kisk Fremia	2023	Change	2024
Cash - Inflation	1.55	-0.30	1.25
Treasury - Cash	0.45	0.65	1.10
Core - Treasury	0.50	0.00	0.50
Long-Term Core - Core	-0.05	0.20	0.15
High Yield - Core	1.15	0.00	1.15
Global RESI - Core	1.00	-0.35	0.65
U.S. Stocks - Core	0.25	-1.10	-0.85
Private Equity - U.S. Stocks	2.60	-0.70	1.90
Implied Real Return (ACA - CPI)			
U.S. Stocks	2.75	-0.75	2.00
U.S. Bonds	2.50	0.35	2.85
Cash Equivalents	1.55	-0.30	1.25

Fixed Income

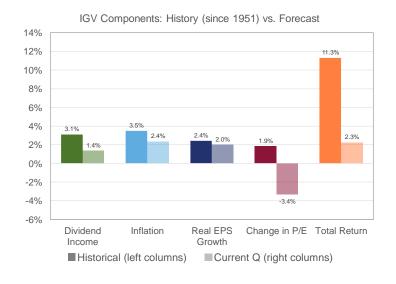


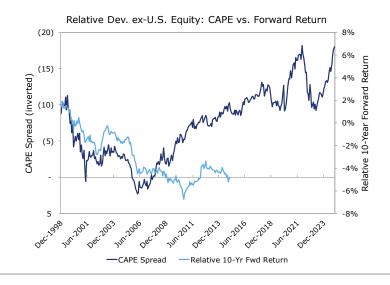


Inflation & Fixed Income		Dec		Dec
	ation & rixed income	2023	Change	2024
Inflation	10-Year Treasury Yield	3.88	0.69	4.57
	10-Year Real Yield	<u>1.71</u>	0.52	2.23
	Breakeven Inflation	2.17	0.17	2.34
	Inflation Forecast	2.25	0.10	2.35
Cash	91-Day T-Bill Yield	5.40	(1.03)	4.37
	T-Bill Yield in 10 Yrs	3.50	0.00	3.50
	Cash Forecast	3.80	(0.20)	3.60
Treasury	U.S. Treasury Idx Yield	4.08	0.38	4.45
	Treasury Idx Yield in 10 Yrs	4.50	0.60	5.10
	Treasury Idx Forecast	4.25	0.45	4.70
	U.S. LT Treasury Idx Yield	4.14	0.72	4.86
LT	T Treasury Idx Yield in 10 Yrs	4.18	0.72	4.91
	LT Treasury Idx Forecast	4.15	0.70	4.85
Spread	U.S. Corporate Idx OAS	1.01	(0.21)	0.80
	Corporate Idx OAS in 10 Yrs	1.53	(0.05)	1.48
	Corporate Idx Forecast	5.25	0.40	5.65
	U.S. Core Bond Forecast	4.75	0.45	5.20
U	.S. LT Core Bond Forecast	4.70	0.65	5.35
	U.S. High Yield Idx OAS	3.46	(0.60)	2.87
	High Yield Idx OAS in 10 Yrs	5.30	(0.39)	4.91
	High Yield Bond Forecast	5.90	0.45	6.35

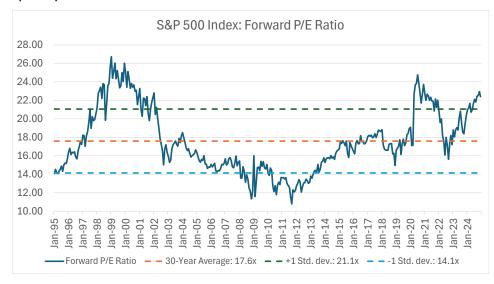
Equity Markets

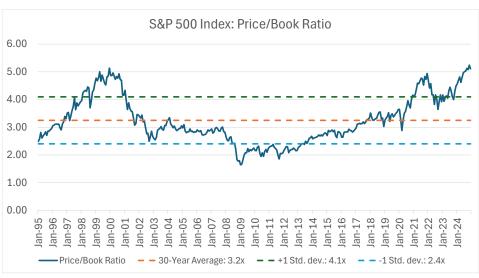
Equity: Public & Private		Dec		Dec
Eq	uity. Public & Private	2023	Change	2024
Equity	DDM	6.55	0.00	6.55
	IGV	3.70	(1.40)	2.30
	CAPE	4.85	(3.75)	1.10
U.S. Equity Forecast		5.00	(0.65)	4.35
	Dev-ex-US Equity Forecast	6.00	(0.65)	5.35
	EM Equity Forecast	6.25	(0.65)	5.60
Private	Cost of Debt (Public)	5.65	0.20	5.85
	Cost of Debt (Private)	7.75	(0.20)	7.55
Priva	ate Market Basket Forecast	7.60	(1.35)	6.25

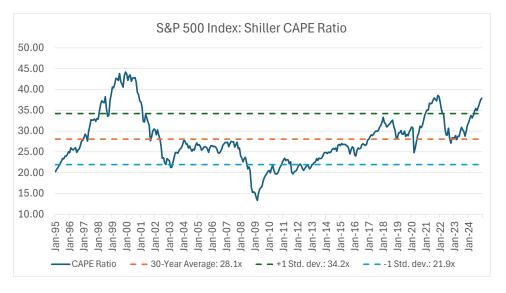


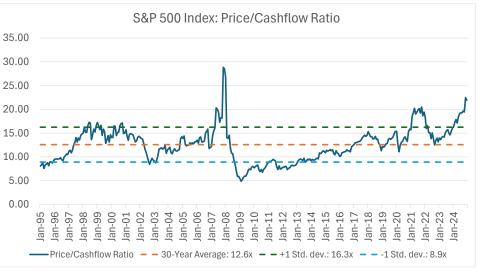


Equity Market Valuations

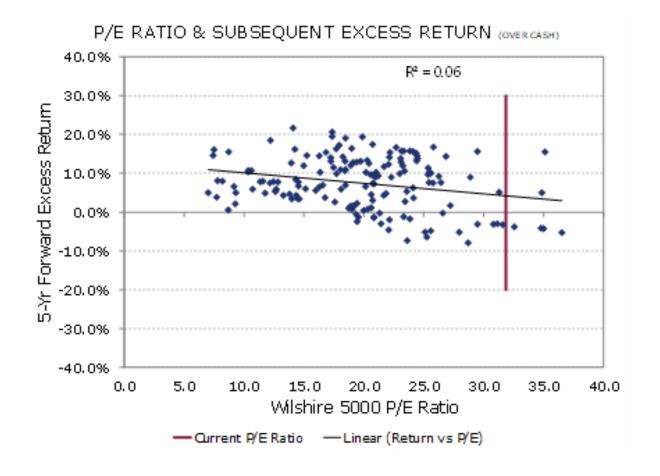


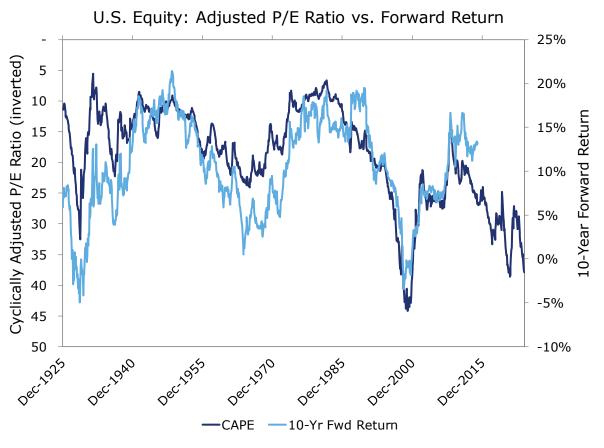






Equity Market Valuations and Future Returns





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Source: Bloomberg

Dec

Real Assets

- Inflation assumption of 2.35% is up and approximately equal to breakeven
- Public real asset yields are mostly up; assumed cap rate in private real estate is up, as well
- Commodity assumption is up, slightly, as are other public real assets

	Infla	tion: Actua	al & Expect	ed	
12.0%					
10.0%				M	
8.0%				\mathcal{A}	
6.0%				M	
4.0%		Λ		\sim	
2.0%	Actor	A CONTRACTOR OF THE PARTY OF TH	2	~~~~	7
0.0%	\downarrow	· ·	- M $-$		
-2.0%	V		V		
-4.0%					
Dec.	iy Sec. 76	Dec 18	060.50	Dec. I	Dec 2A
			~	~	
•	—Headline CPI (6-m	o annualized)-	-Core CPI (6-r	no annualized	1)
	─10-year Breakeve	n			

	To	Risk (%)		
Asset Class Assumption	Dec		Dec	
Asset Class Assumption	2023	Change	2024	
U.S. TIPS	4.15	0.55	4.70	6.00
Global RE Securities	5.75	0.10	5.85	16.55
Private Real Estate	6.10	0.30	6.40	13.95
Commodities	4.80	0.05	4.85	16.00
Inflation	2.25	0.10	2.35	1.75

Dec

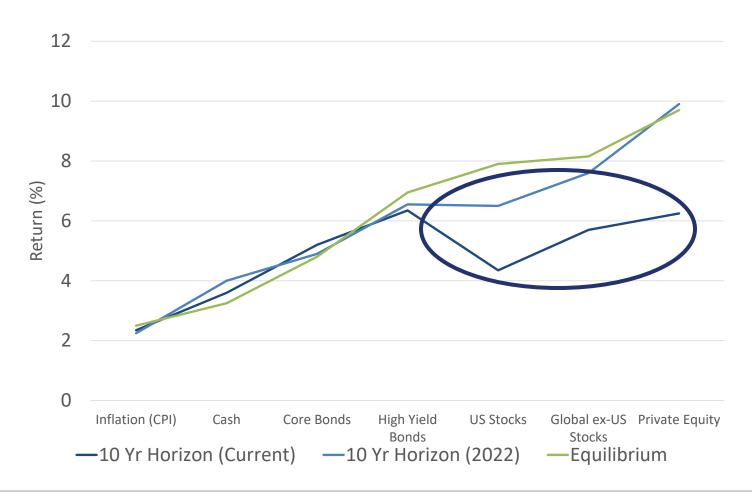
	Real Assets	Dec	Dec	
	Real Assets	2023	Change	2024
Listed	Inflation Capture (75%)	1.70	0.05	1.75
	REIT Yield	3.92	0.04	3.96
	Midstream Energy Yield	6.11	(1.42)	4.69
	Global Infrastructue Yield	3.97	(0.26)	3.71
Private	Real Estate Cap Rate	4.25	0.40	4.65
	Cost of Debt (Private)	6.25	0.55	6.80
Inf	fra. v RE Cap Rate Differential Infra. Leverage / RE Leverage	0.05 2.5	(0.30) 0.0	(0.25) 2.5

Dallas ERF Asset Class Expected Return and Risk

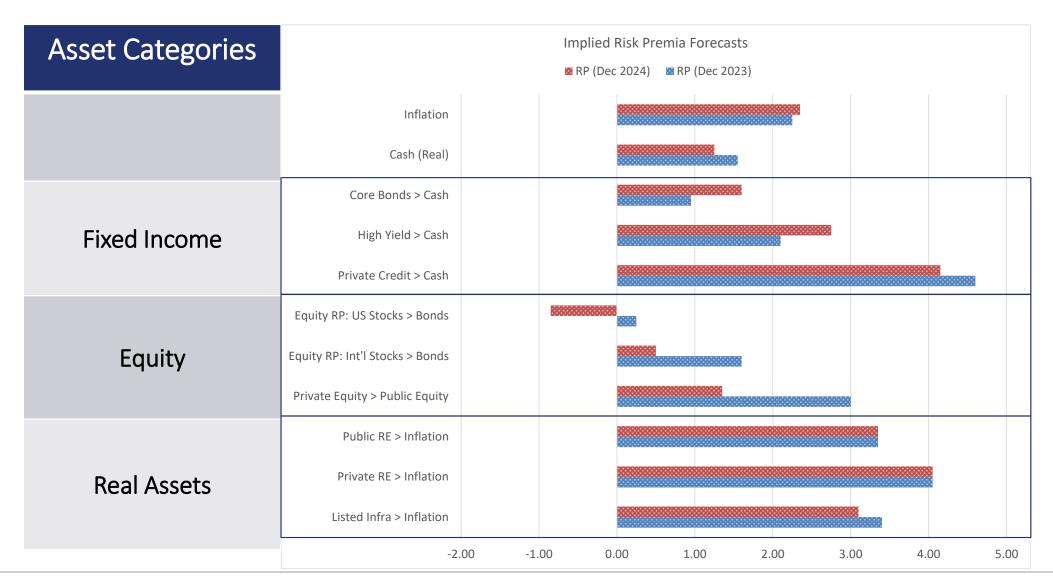
	EQUITY						FIXED I	XED INCOME		REAL ASSETS				DIVERSIFYING	
		Global		Global							Real Estat	te		Global	
	US	ex-US	Global	Stock	Private	Core	High	Private	Opp	US	Core	Value Add	Midstream	Listed	Marketable
	Stock	Stock	Stock	Low Vol	Equity	Bond	Yield	Credit	Credit	RES	RE	RE	Energy	Infra	Alternatives
10 Year Compounded Return	4.35	5.70	4.90	5.65	6.25	5.20	6.35	7.75	6.40	5.70	5.80	7.35	6.45	5.45	6.35
30-Year Compounded Return	6.15	6.95	6.50	6.70	7.95	5.00	6.65	7.90	6.25	6.45	6.25	8.55	7.60	6.85	6.55
Risk (%)	17.00	19.05	17.00	13.70	29.65	4.75	10.00	12.75	7.40	17.50	12.00	17.50	19.00	17.00	6.05
Yield (%)	1.25	2.85	1.80	2.25	0.00	5.65	9.80	4.85	8.65	3.95	3.65	1.85	4.65	3.70	0.00
Factor Exposure Growth	8.00	8.00	8.00	6.40	14.00	-0.95	4.00	5.10	3.00	6.00	4.00	3.00	-1.00	-1.00	2.50
Factor Exposure Inflation	-3.00	0.15	-1.95	-1.20	-4.25	-2.60	-1.00	-1.50	0.65	1.00	1.00	1.00	4.00	2.00	3.00

Equilibrium Assumptions

Capital Market Lines



Current Assumption Risk Premiums



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Wilshire

Digital Assets

Potential Roles and Risks in Institutional Portfolios

Thomas Toth, CFA – Managing Director

Advances in technology are often rejected ...

Steve Knott MD of HMV on the threat from online retailers, 2002

"I have never heard such rubbish... downloadable music is just a fad ..."

The editor of business books for Prentice Hall, 1957

"I have traveled the length and breadth of this country ... and I can assure you that data processing is a fad that won't last out the year."

Engineer at the Advanced Computing Systems Division of IBM, 1968

"But what (is the microchip) good for?"

Ken Olson, president, chairman/founder of Digital Equipment Corp, 1977

"There is no reason anyone would want a computer in their home."

Western Union internal memo, 1876

"This 'telephone' has too many shortcomings to be seriously considered as a means of communication. The device is inherently of no value to us."

David Sarnoff's associates on the radio, 1920s

"The wireless music box (radio) has no imaginable commercial value. Who would pay for a message sent to nobody in particular?"

H.M. Warner, Warner Brothers, 1927

"Who the hell wants to hear actors talk?"

Warren Buffett, CEO of Berkshire Hathaway, 2014

"Stay away from it. It's a mirage, basically. In terms of cryptocurrencies, generally, I can say almost with certainty that they will come to a bad ending."

Paul Krugman, economist, 2013

"Bitcoin is evil"

What are digital assets/cryptocurrency?

- Decentralized digital money designed to be used over the internet
 - Bitcoin, which launched in 2009, was the first cryptocurrency, and it remains by far the biggest and most well known
 - Cryptocurrencies are usually not issued or controlled by a central authority
- Makes it possible to transfer value online between people who do not know each other without the need for an intermediary like a bank or payment processor
- Transactions are vetted and tracked by a technology called a **blockchain**



What is a blockchain?

- List of transactions that anyone can view and verify
 - Ongoing, constantly re-verified record of every single transaction ever made using that digital asset
- Managed by peer-to-peer networks of computers running free, opensource cryptography software
- Distributed across participants of the digital currency's entire network
 - Miners are rewarded with small amounts of cryptocurrency for contributing their computing power to the blockchain
- Digital signatures as proof of "private" key ownership without disclosing actual private key
- Each digital asset has its own blockchain

Key Characteristics



Decentralization

Digital assets are decentralized, meaning they are not controlled by a central authority, which enhances security and user autonomy.

Transparency

Transparency in digital assets allows users to verify transactions and account balances, promoting trust and reducing fraud.

Peer-to-Peer Transactions

Digital assets facilitate peer-to-peer transactions, enabling direct exchanges between users without intermediaries, which simplifies processes.

What is the rationale for owning digital assets?

- New medium of exchange with less potential for debasement from global central bank actions
- Risk adjusted returns for a digital asset like Bitcoin are historically strong
 - Drawdown profile is significant (multiple pullbacks of greater than 50% since 2010), increasing behavioral risk
- Innovation potential is high even as ultimate direction is uncertain

What is the rationale for owning digital assets?

- Bitcoin = Digital Gold
 - There are no cash flows associated with holding either asset
 - Equities have dividends
 - Bonds have coupon payments
 - The return you get from holding gold or cryptocurrencies is simply:
 - (price at sale) (price at purchase) (holding costs)
 - Biggest driver is the sales price!
 - Said another way: You will only make money if you find someone else to buy it for a higher price than you paid
 - This is the definition of a speculative asset: you purchase the asset hoping to sell it for more in the future

What is the rationale for owning digital assets?

• Bitcoin = Digital Gold

	BITCOIN	GOLD		BITCOIN	GOLD
Limited supply	✓	✓	Never been counterfeited	✓	Χ
Fungible	✓	✓	Low-cost storage and portability at scale	✓	X
Decentralized	1	1	High-speed transfer of value	1	X
Borderless	1	1	Easily verifiable	1	X
Long track record	X	1	Divisible for microtransactions	1	X

Source: Bitwise

Use Cases for Other Digital Assets

FINANCIAL SERVICES

Potential Uses:

Trade finance

Payments

Regulatory info provision

Settlement and clearing

Lending

Fund distribution

HEALTHCARE

Potential Uses:

Record keeping

Security of confidential patient information

TECHNOLOGY, MEDIA, TELECOM

Potential Uses:

Supports "internet of Things"

Lower priced micropayments

Securing intellectual property and digital creative works

Blockchain-as-a-service

CONSUMER / INDUSTRIAL

Potential Uses:

Retail transaction payments

Digital signature technology

Streamline receivable

collections and payments

TRANSPORTATION

Potential Uses:

Self-driving cars

Car self-maintenance

Shipping and supply payments

Ride sharing app

PUBLIC SECTOR

Potential Uses:

Official registry for

government assets

Secure and faster voting

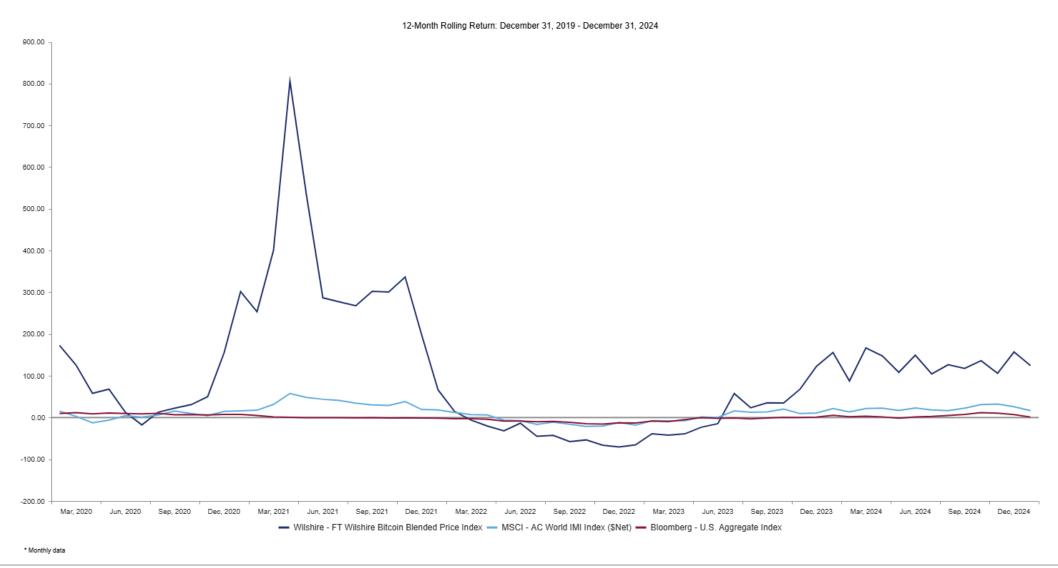
mechanism for elections

Source: JP Morgan

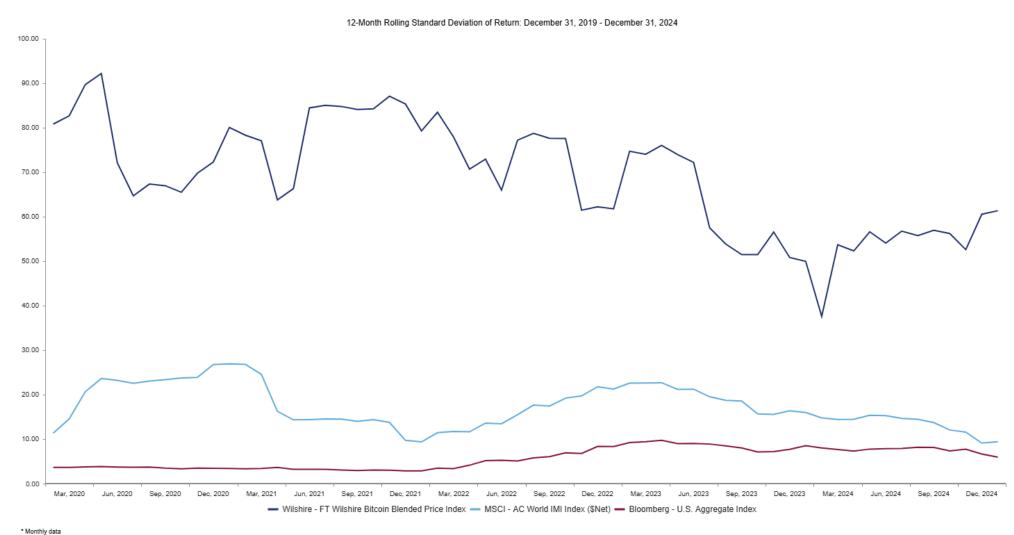
Digital Asset Return and Risk

- Specifically avoid using the term "asset class" when describing Digital Assets
 - Risk overstating the current potential uses of digital assets versus where these opportunities are in their life cycle
- Volatility
 - High degree of uncertainty in the early years of a new investment segment
 - Perhaps the largest hurdle for adoption is the elevated volatility in the space
- Regulatory
 - Unique challenge to regulate given its global and private nature but still susceptible to scrutiny
 - Will see an increase in regulation, which impacts the pace of innovation and adoption
- Transactability
 - Primary benefits of digital assets security and decentralization often come at the cost of speed
 - Scalability remains a concern when considering widespread adoption and everyday use by the broader population

Digital Asset Return and Risk – 12 month Rolling Return



Digital Asset Return and Risk – 12 month Rolling Risk



Institutional Investment Profile

- Level of economic risk and return for digital assets are commonly associated with venture capital investments
- Venture capital is aligned from a qualitative perspective as many funds include investments in early-stage companies/tokens
- Broader technology disruption thesis related to blockchain technology is compelling
 - Applications extend beyond digital currencies and financial services to all contracts
- Developments in cryptocurrency have been accompanied and enabled by operational improvements within organizations and functions necessary for investing
 - Access through listed vehicles
 - Custody
 - Administration

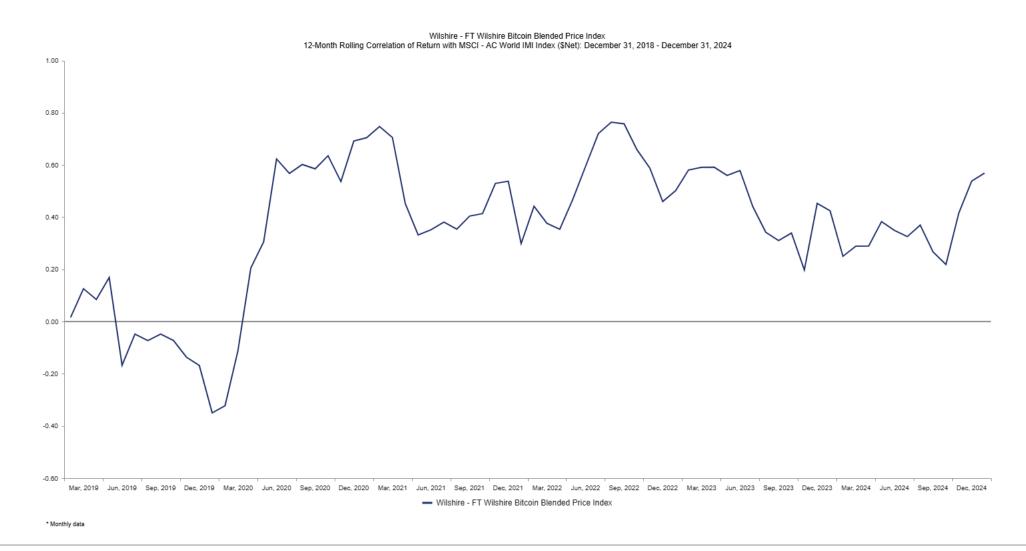
Digital Assets and Institutional Portfolios

- Low correlation to traditional assets
 - Fundamental drivers of digital asset prices (technological progress, regulation) are different from equities and bonds
- High level of volatility
 - See previous charts!
 - Historically, sharp risk-off markets have seen meaningful price declines for digital assets

CORRELATIONS	S&P 500	US AGG BOND	GOLD
Bitwise 10 Index	0.42	0.01	0.10
Bitcoin (BTC)	0.38	0.00	0.09
Ethereum (ETH)	0.43	0.06	0.09

Source: Bitwise – 1 year correlation through December 31, 2024

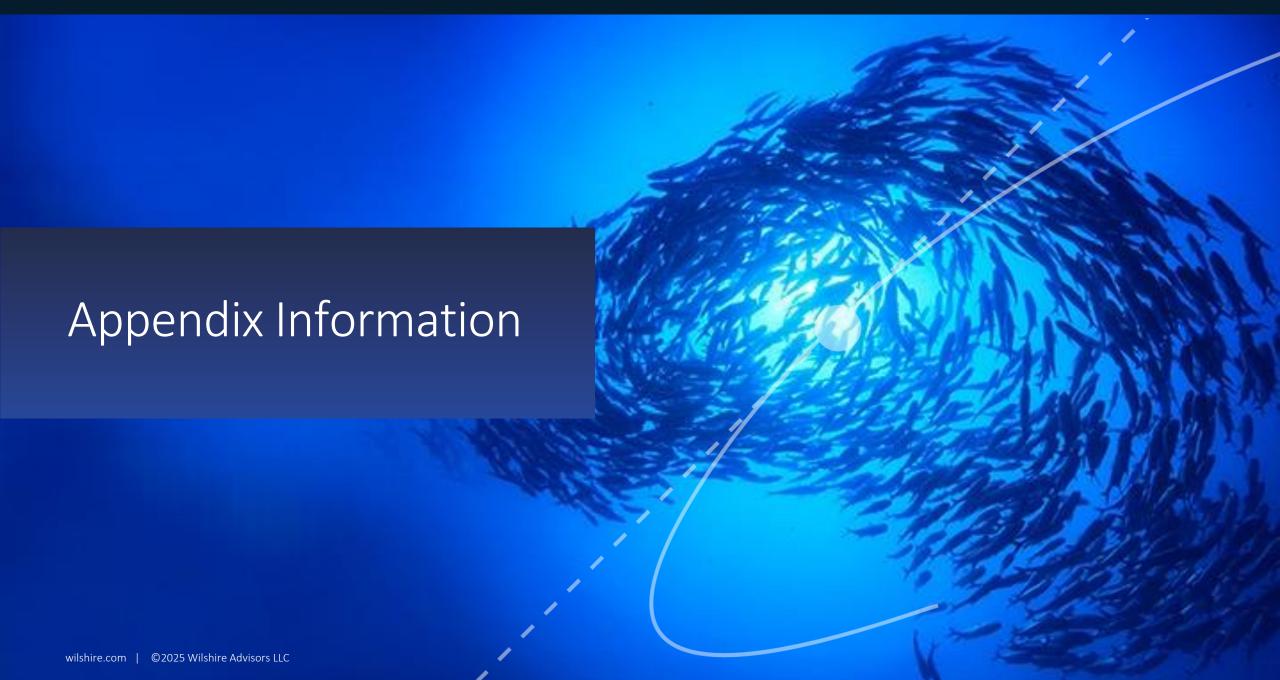
Digital Asset Return and Risk – 12 month Rolling Correlation with Equities



Institutional Investment Options

INVESTMENT OPTIONS	DESCRIPTION	PROS	CONS
Outright Digital Asset Purchases	Purchasing digital assets on the market via an exchange	Direct exposure to digital assets with no basis risk	 Low liquidity outside of leading assets Exchange risk and custody responsibility
ETFs, ETNs, and closed-end funds	ETFs have been approved in the U.S., and there are several ETNs and closed-end fund options	Better liquidityInvestor doesn't hold private keys	Could trade at significant premiums/discounts
Futures and Options	Bitcoin and Ether futures contracts, as well as listed options and various OTC derivatives	Better liquidityInvestor doesn't hold private keysAbility to short	 Poor liquidity relative to traditional futures markets OTC market lacks standardization
Public Equity ETFs	Exposure to a bucket of public companies with blockchain in their business models	 Better liquidity Less volatile than broader space Low transaction costs 	 Basis risk to direct digital asset exposure High exposure to companies benefiting from Graphics Processing Unit demand
Crypto Lending	Loans facilitated by CeFi or DeFi lending platforms collateralized by digital assets	 Yield-based, lower volatility return profile Typically overcollateralized Compelling yields versus public fixed income 	 Risk of financing bad actors through DeFi High volatility of underlying collateral
Long-Only Investment Funds	Long exposure to one or multiple digital assets through a third-party asset manager	 Direct exposure to digital assets with minimal tracking error Custody risk taken on by manager 	Lack of trading flexibility during bear marketsLimited institutional manager landscape
Hedge Funds	Active trading of digital assets, ranging from fundamental concentrated and long-biased funds to smaller quantitative long/short strategies	 Benefit from active management of crypto experts Long-biased and Momentum strategies can be effective due to retail-driven market Exchange arbitrage has less directional risk 	 Asset-liability mismatch due to low underlying liquidity Mass market manipulation clouds trading signals Exchange arbitrage opportunity unclear Relatively high fees
Private Equity	Invest in GPs making equity investments in blockchain-based companies or direct purchases in early-stage tokens	 No crypto custodial risk Best asset-liability match given liquidity and investment horizon Reputable PE firms can drive value creation in blockchain startups 	 Rapid tech innovation can quickly outdate investments Exposure to cryptocurrency market events Highly exposed to regulatory change Relatively high fees

Wilshire



Wilshire Digital Assets Index offering

Clear appetite from Asset Owners to access this dynamic market

Foundational structures need to be developed to access the market's full potential

- Institutional pricing quality
- Taxonomy system
- Standard and customized indexes

Prices are directly available via

Wilshire.com

FT.com

All major data vendors

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FT Wilshire Digital Asset Blended Price - Overview

- Key building block to all FT Wilshire index products
- The FT Wilshire Blended Price (FTWBP) methodology is a volume weighted average price taken across all contributing exchanges
 - Calculated every tick, 24/7/365
 - Filtered for cross-exchange outliers, volatility outliers, "fat-finger" errors etc
 - Contributing exchanges weighted by their 24-hour cumulative hourly volumes
- Contributing Exchanges are those ranked AA or A with a score of 70+, fulfilled over the last two Cryptocompare Exchange Benchmark reviews
- Established in 2019 the Exchange Benchmark considers eight areas of different categories:
 - Legal/Regulation, AML/KYC/Transaction Risk, Data Provision, Security, Asset Quality/Diversity, Team, Market Quality, Negative Events

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Available Indices and Prices

Multiple Digital Asset Indices	Short name	RIC
FT Wilshire Top 5 Digital Assets Index	FTW Top 5 DAI	.FTWT5
FT Wilshire Top 5 ex Bitcoin Digital Assets Index	FTW Top 5 ex Bitcoin DAI	.FTWT5XB
FT Wilshire Bitcoin & Ethereum Digital Asset Index	FTW Bitcoin & Ethereum DAI	.FTWBE

Single Digital Asset Indices	Short name	RIC
FT Wilshire Bitcoin Blended Price Index	FTW Bitcoin BPI	.FTWBTC
FT Wilshire Ethereum Blended Price Index	FTW Ethereum BPI	.FTWETH
FT Wilshire Cardano Blended Price Index	FTW Cardano BPI	.FTWADA
FT Wilshire Dogecoin Blended Price Index	FTW Dogecoin BPI	.FTWDOGE
FT Wilshire Polkadot Blended Price Index	FTW Polkadot BPI	.FTWDOT
FT Wilshire Chainlink Blended Price Index	FTW Chainlink BPI	.FTWLINK
FT Wilshire Bitcoin Cash Blended Price Index	FTW Bitcoin Cash BPI	.FTWBCH
FT Wilshire Uniswap Protocol Blended Price Index	FTW Uniswap Protocol BPI	.FTWUNI
FT Wilshire Solana Blended Price Index	FTW Solana BPI	.FTWSOL
FT Wilshire Litecoin Blended Price Index	FTW Litecoin BPI	.FTWLTC

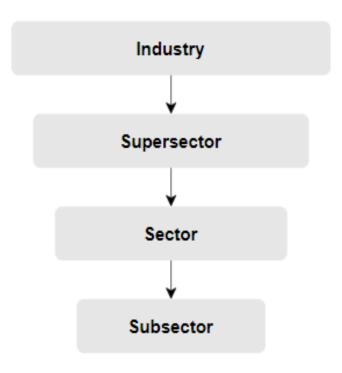
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Digital Assets are growing exponentially and moving beyond cryptocurrencies

A standard transparent taxonomy system will provide:

- Clear categorization of the top 1,000 by market capitalization by identifying:
 - common usage types
 - underlying technologies
 - and investment themes
- Building block for institutional market to develop investment solutions based on rigorous research

Four tier structure



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DISCUSSION SHEET

Employees' Retirement Fund Board of Trustees Meeting

February 11, 2025

Issue: Adelante Capital Management LLC

Attachments: Investment Manager Agreement (IMA) & Guidelines

Discussion: Adelante is a REIT (Real Estate Investment Trust)

manager with \$47 million in assets under management for ERF. Adelante has requested to change the benchmark in the IMA and guidelines from the Wilshire U.S. Real Estate

Securities Index to FTSE NAREIT Equity Index.

The index change will provide a more precise and

comprehensive benchmark for tracking the performance of

Adelante and will allow both REIT managers to be

evaluated against the same benchmark.

Staff have discussed this guideline change with Wilshire, and have reviewed and recommend the benchmark

change.

Recommendation: Suggested motion for the approval is as follows: Move to

approve/ ratify the requested investment manager IMA and guideline change as noted and authorize the Board Chair

to sign.

3 2 2 5

Adelante Capital Management (revised 03/10) Real Estate Securities Management for Employees' Retirement Fund of the City of Dallas

Investment Approach

Adelante Capital Management (revised 03/10) shall pursue adding value four ways when investing in real estate securities: (1) Identify companies in markets that will experience solid growth; (2) Maintain a strong bias toward companies that trade at or below direct real estate values and that have the greatest opportunity for stable growth and/or multiple expansion; (3) Maintain a preference for REITs with fully integrated management teams and strong track records in both development and acquisition over several market cycles; (4) Adelante Capital Management's (revised 03/10) experience and insights into direct real estate markets and property operations.

Portfolio Characteristics

Number of Holdings	25 - 45
Maximum allocation to one security	15%
Minimum Market Capitalization	\$100 million
Maximum allocation to cash	5%
Maximum allocation to any sector	Not to exceed the greater of 200% of the index or 5% of portfolio value (revised 03/10)
Convertible REITs	0%
Maximum allocation to real estate operating companies	10%

The characteristics above are only representative of a portfolio with your firm's designated investment specialization. The characteristics are not intended to hinder the manager or inhibit its ability to implement its investment process and disciplines. However, the portfolio will be monitored to identify any significant deviations that may indicate a material change in investment approach.

Authorized Investments

- 1. Real Estate Investment Trust securities listed on US exchanges or traded through NASDAQ.
- 2. Master Custodian's Short-Term Investment Fund (STIF).
- Real Estate Operating Companies securities listed on US exchanges or traded through NASDAQ.

General Investment Manager Guidelines and Requirements

- The manager shall take note of and operate under the "Real Estate Asset Class Policy for the Employees' Retirement Fund of the City of Dallas", which specifies the strategic roles the portfolio is to fulfill in the overall investment structure of the Fund, a copy of which is appended to, and is part of these guidelines and objectives.
- Purchases and sales, security selection, and portfolio implementation of investment strategies are delegated to the discretion of the investment manager.
- The following transactions are prohibited: purchase of non-negotiable securities, short sales of stocks and bonds, stock and bond transactions on margin, straddles, options, leverage, or letter stock.
- 4. The use of derivatives is prohibited
- Transactions that involve a broker acting as a "principal" where such broker is also the investment manager who is making the transaction is prohibited.
- 6. Transactions shall be executed at a reasonable cost, taking into consideration prevailing market conditions and services and research provided by the executing broker. At the discretion of the Board, the manager will prepare a report detailing all transaction costs and any soft dollar payments and usage.
- 7. Each investment manager shall have full responsibility for the exercise of all rights appurtenant to any securities under its management, including responsibility to vote proxies, except to the extent otherwise directed by the Trustees. Investment managers shall maintain records of proxy votes and make them available for inspection upon reasonable request.
- Performance objectives are to be met on a net of fees basis.
- 9. Any investment or action with respect to an investment not expressly allowed is prohibited, unless presented to and approved prospectively by the Trustees. All guidelines must be adhered to by the manager. If from time to time an exception to the guidelines shall be deemed appropriate by a manager, it may seek review by submitting a request in writing to the Administrator for approval by the Trustees to make such an exception. However, if a guideline is violated due to market events, actions, or conditions, the manager must immediately inform the Administrator to determine a course of action. This course of action will be based upon the best judgement recommendation of the manager and the Administrator's discussion with the investment consultant and Board members. Correction of the violation may be postponed if it is deemed to be in the best interest of the Fund.

- 10. Should any temporary or permanent change regarding a manager occur, the manager shall notify the Administrator immediately via phone. A letter, detailing the circumstances of the change and the possible impact to the portfolio management, will be faxed immediately to the Administrator. Changes include, but are not limited to: a) a significant change in investment philosophy, b) a loss of one or more key management personnel, c) a new portfolio manager on the account, d) a change in ownership structure of the firm, or e) any occurrence which might potentially impact the management, professionalism, integrity or financial position of the investment manager.
- 11. For purposes of the guidelines, (a) all percentages apply on a market value basis immediately after a purchase or initial investment and (b) any subsequent change in any applicable percentage resulting from market fluctuations or other changes in total assets does not require immediate elimination of any security from the Portfolio.

Performance Objective

Acknowledged:

Outperform the FTSE/NAREIT All Equity REITs Index by 1% per annum over a full market cycle (3 to 5 years), net of fees.

By: _Michael A. Tolles Date:
Employees' Retirement Fund of the City of Dallas
By: ethery alston (Jan 8, 2025 10:08 CST) Date:

Adelante Capital Management

Date initially adopted: August 24, 2001

Date last revised: December 20th, 2024

Signature: Michael A. Torres

Email: mtorres@adelante.com

Adelante Guidelines 1-08-25

Final Audit Report 2025-01-08

Created: 2025-01-08

By: Joshua Berman (jberman@dallaserf.org)

Status: Signed

Transaction ID: CBJCHBCAABAAj8RI7EiIn08gIBVPMLYC-VTBk0PGom7_

"Adelante Guidelines 1-08-25" History

- Document created by Joshua Berman (jberman@dallaserf.org) 2025-01-08 - 3:54:09 PM GMT
- Document emailed to cheryl alston (calston@dallaserf.org) for signature 2025-01-08 - 3:54:14 PM GMT
- Document emailed to Michael Torres (mtorres@adelante.com) for signature 2025-01-08 - 3:54:14 PM GMT
- Email viewed by cheryl alston (calston@dallaserf.org) 2025-01-08 - 4:07:29 PM GMT
- Document e-signed by cheryl alston (calston@dallaserf.org) Signature Date: 2025-01-08 - 4:08:09 PM GMT - Time Source: server
- Email viewed by Michael Torres (mtorres@adelante.com) 2025-01-08 - 7:10:19 PM GMT
- Document e-signed by Michael Torres (mtorres@adelante.com) Signature Date: 2025-01-08 - 7:11:01 PM GMT - Time Source: server
- Agreement completed.
 2025-01-08 7:11:01 PM GMT

Adelante Capital Management (revised 01/25: 03/10) Real Estate Securities Management for Employees' Retirement Fund of the City of Dallas

Investment Approach

Adelante Capital Management (revised 03110) shall pursue adding value four ways when investing in real estate securities: (1) Identify companies in markets that will experience solid growth; (2) Maintain a strong bias toward companies that trade at or below direct real estate values and that have the greatest opportunity for stable growth and/or multiple expansion; (3) Maintain a preference for REITs with fully integrated management teams and strong track records in both development and acquisition over several market cycles; (4) Adelante Capital Management's (revised 03110) experience and insights into direct real estate markets and property operations.

Portfolio Characteristics

Number of Holdings	25- <u>4</u> 35
Maximum allocation to one security	15%
Minimum Market Capitalization	\$100 million
Maximum allocation to cash	5%
Maximum allocation to any sector	Not to exceed the greater of 200% of the index or 5% of portfolio value (revised 03/10)
Convertible REITs	0%
Maximum allocation to real estate operating companies	10%

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Authorized Investments

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- 2. Purchases and sales, security selection, and portfolio implementation of investment strategies are delegated to the discretion of the investment manager.
- 3. The following transactions are prohibited: purchase of non-negotiable securities, short sales of stocks and bonds, stock and bond transactions on margin, straddles, options, leverage, or letter stock.
- 4. The use of derivatives is prohibited
- 5. Transactions that involve a broker acting as a "principal" where such broker is also the investment manager who is making the transaction is prohibited.
- 6. Transactions shall be executed at a reasonable cost, taking into consideration prevailing market conditions and services and research provided by the executing broker. At the discretion of the Board, the manager will prepare a report detailing all transaction costs and any soft dollar payments and usage.
- 7. Each investment manager shall have full responsibility for the exercise of all rights appurtenant to any securities under its management, including responsibility to vote proxies, except to the extent otherwise directed by the Trustees. Investment managers shall maintain records of proxy votes and make them available for inspection upon reasonable request.
- 8. Performance objectives are to be met on a net of fees basis.
- 9. Any investment or action with respect to an investment not expressly allowed is prohibited, unless presented to and approved prospectively by the Trustees. All guidelines must be adhered to by the manager. If from time to time an exception to the guidelines shall be deemed appropriate by a manager, it may seek review by submitting a request in writing to the Administrator for approval by the Trustees to make such an exception. However, if a guideline is violated due to market events, actions, or conditions, the manager must immediately inform the Administrator to determine a course of action. This course of action will be based upon the best judgement recommendation of the manager and the Administrator's discussion with the investment consultant and Board members. Correction of the violation may be postponed if it is deemed to be in the best interest of the Fund.

- 10. Should any temporary or permanent change regarding a manager occur, the mager shall notify the Administrator immediately via phone. A letter, detailing the circumstances of the change and the possible impact to the porfolio management, will be fixed immediately to the Administrator. Changes include, but are not limited to: a) a significant change in investment philosophy, b) a loss of one or more key management personnel, c) a new portfolio manager on the account, d) a change in ownership structure of the frm, or e) any occurrence which might potentially impact the management, professionalism, integrity or financial position of the investment manager.
- 11. For purposes of the g idelines, (a) all percentages pply on a mark t value b sis immediately afer a purchase or initial investment and (b) any subsequent change in any applicable perc ntage resulting from market fluctuations or other changes in total assets does not require immediate elimination of any security from the Porto lio.

Performance Objective

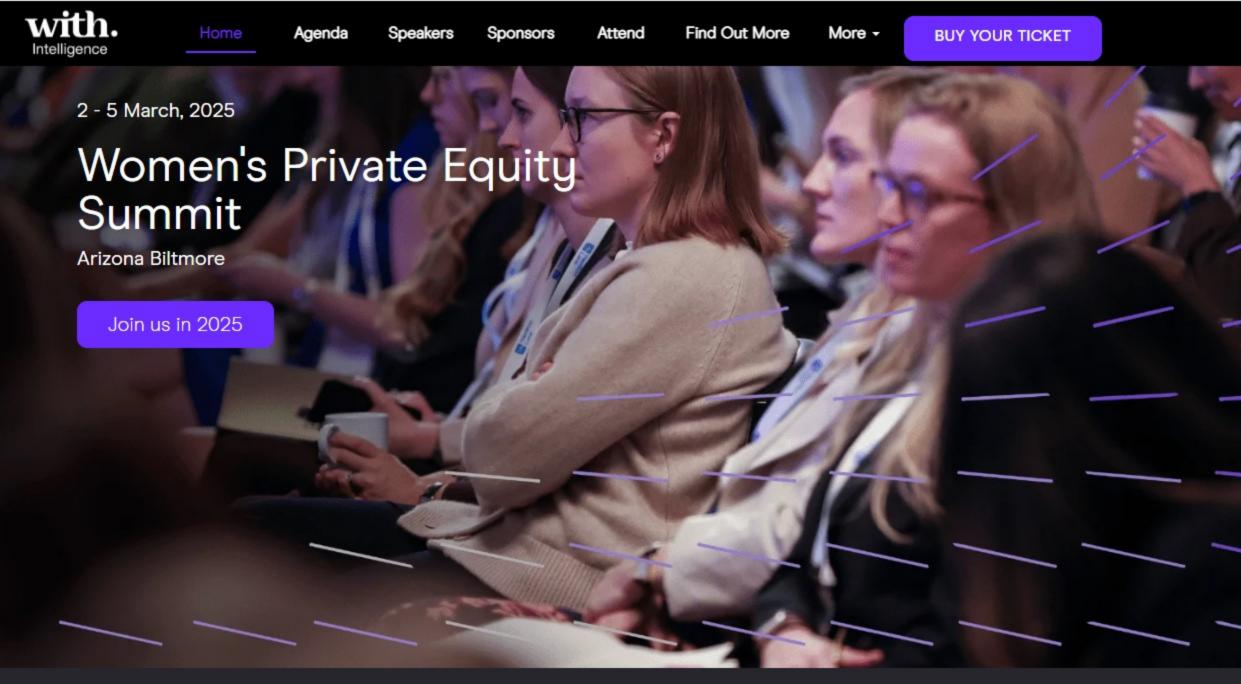
Outperform the FTSE/NAREIT All Equity REITs Wilshire Real Estate Securities Index by 1% cycle (3 to 5 years), net of fees.

All Equity REITs Wilshire Real Estate Securities Index by 1% per annum over a full market

Acknowledged:	Adelante Capital Man	agement
	By:	Date: ———
	Employees' Retiremen	at Fund of the City of Dallas
	By:	Date:

Date initially adopted: August 24, 2001

Date last revised: December 20th, 2024



Join us for our Summit designed exclusively for senior women in the private equity industry.

Join us in March 2025 as we return to Arizona for the 18th edition of our renowned Women's Private Equity Summit. Hosted once again at the prestigious Arizona Biltmore, this, our flagship event, remains the premier conference for senior women in the private equity sector, providing a platform for focused collaboration, experiential networking, and deal-making.



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Hear from Larry Fink, BlackRock's Chairman and CEO, on insights from his conversations with global leaders and policymakers, and Raj Rao, President of Global Infrastructure Partners, on the intersection of infrastructure and AI and how it can unlock transformational productivity gains globally.

Event details

DATE

March 4 - 5, 2025

LOCATION

BlackRock Headquarters 50 Hudson Yards New York, NY 10001

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<u>Explore the agenda</u> for session details, networking opportunities and speaker updates. We look forward to welcoming you to Hudson Yards!

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Education, networking and creating business

Pension Bridge The Annual is the number one investment conference in North Ancerical Choking all ocators and managers together in an optimized device to enhance site navigation, analyze site usage, and assist in our environment:

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- Finely balanced ratio of 2:1 investors/investment consultants to asset manager firms
- Numerous networking receptions and meeting opportunities

• Topical, curated content and industry-leading speakers

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us)

Here's what our 2024 attendees had to say about their experience.

"The conference was excellent! Great topics, great speakers! J:
- Investor

Topical and knowledge building

The programme will take a whole-portfolio approach to the major issues facing portfolio construction and investment execution today and in the future: Highertfordengeragetest liquidity solutions for LPs, the move toward private markets; Waina and emorege, and assist in our marketing efforts. Learn more (https://withintelligence.com/cookles)

Agenda

(https://events.withintelligence.com/pensionbridgetheannual/agenda)



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Attendance at our conference is sought after. Regularly attracting institutional investors and family offices with combined assets in excess of \$11trn, attendees know that when they walk through the door business will be done, deals done, and future relationships built.



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Pension Bridge The Annual 2024

In our previous edition, we hosted over 330 delegates from 200 firms.



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ASSET ALLOCATION COMPARISON

December 31, 2024

		0/ of Total	Allanation	% Difference		Prior Perio
	Manhat Value	% of Total	Allocation	from	Daise Davie d Manhot Value	% of Total
Equity	Market Value	Fund	Policy	Allocation	Prior Period Market Value	Fund
Equity CHANNING CAPITAL	33,172,187.92	0.88			35,965,788.70	0.9
SYSTEMATIC	57,339,377.05	1.53			61,534,817.15	1.6
Total Small Cap	90,511,564.97	2.41			97,500,605.85	2.5
·						
T. ROWE PRICE	161,984,088.97	4.31			185,144,256.20	4.9
Total Domestic/Enhanced equity	161,984,088.97	4.31			185,144,256.20	4.9
NTGI S&P 500 EQUITY INDEX	166,072,253.48	4.42			170,128,822.51	4.5
Total Index	166,072,253.48	4.42			170,128,822.51	4.5
Total Domestic	418,567,907.42	11.13	12.00	-0.87	452,773,684.56	12.0
ACADIAN	113,495,915.47	3.02			115,365,935.21	3.0
AQR CAPITAL	134,855,589.95	3.59			136,823,709.48	3.6
ATIVO	26,405,377.88	0.70			27,061,672.89	0.7
BAILLIE GIFFORD	79,182,134.26	2.11			81,366,463.47	2.1
EARNEST PARTNERS	95,946,497.07	2.55			96,942,594.69	2.5
			44.50	0.47		
Total International	449,885,514.63	11.97	11.50	0.47	457,560,375.74	12.1
ARIEL	41,291,483.54	1.10			41,924,761.44	1.1
NTAM ACWI IMI	53,268,766.37	1.42			54,745,451.18	1.4
WELLINGTON MGMT	102,830,394.66	2.73			104,538,200.27	2.7
Total Global Equity	197,390,644.57	5.25	5.00	0.25	201,208,412.89	5.3
ACADIAN-LVG	198,776,472.07	5.29			205,547,875.27	5.4
BLACKROCK	191,714,540.84	5.10			199,388,127.35	5.3
SANCTIONED ASSET PORTFOL	79,664.81	0.00			46,405.65	0.0
Total Global Low Volatility Equity	390,570,677.72	10.39	10.00	0.39	404,982,408.27	10.7
FAIRVIEW CAPITAL	106,178,286.00	2.82			106,281,649.00	2.8
GROSVENOR GCM - CFIG	164,198,458.00	4.37			158,677,417.00	4.2
HAMILTON LANE	94,463,690.00	2.51			89,394,078.00	2.3
Total Private Equity	364,840,434.00	9.70	10.00	-0.30	354,353,144.00	9.4
Total Equity	1,821,255,178.34	48.44	48.50	-0.06	1,870,878,025.46	49.7
, ,	1,021,200,110.04	10.11	40.00	0.00	1,010,010,020.40	40.7
Fixed Income						
GARCIA HAMILTON	189,012,832.70	5.03			193,238,886.56	5.1
NTAM AGG BOND INDEX FUND	194,579,089.95	5.18			197,781,648.67	5.2
WESTERN ASSET MANAGEMENT	5,489.42	0.00			5,902.33	0.0
WELLINGTON-CORE BOND	199,714,560.58	5.31			202,775,565.04	5.3
Total Core Fixed Income	583,311,972.65	15.51	17.50	-1.99	593,802,002.60	15.7
BLACKROCK-HY	188,412,786.30	5.01			189,108,307.61	5.0
OAKTREE	193,339,850.97	5.14			194,745,935.67	5.1
Total High Yield	381,752,637.27	10.15	10.00	0.15	383,854,243.28	10.2
NEUBERGER BERMAN	163,676,158.76	4.35			182,510,148.69	4.8
Total Credit Opportunities	163,676,158.76	4.35	4.00	0.35	182,510,148.69	4.8
			4.00	0.00		
SILVER POINT - DOIP II	2,516,348.00	0.07			2,516,348.00	0.0
MGG STRUCTURED SOLUTIONS	4,634,633.00	0.12	2.50	0.40	3,914,702.00	0.1
Total Private Credit	7,150,981.00	0.19	2.50	-2.43	6,431,050.00	0.1
Total Fixed Income	1,135,891,749.68	30.21	34.00	-3. <i>7</i> 9	1,166,597,444.57	31.0
Real Assets	-	l			-	
ADELANTE CAPITAL	47,016,635.15	1.25		٠	50,724,260.70	1.3
CENTERSQUARE-SL	47,706,791.98	1.27			51,319,733.30	1.3
Total REITS	94,723,427.13	2.52	2.50	0.02	102,043,994.00	2.7
ATLANTIC TRUST	73,682,706.55	1.96	-		78,851,981.25	2.1
HARVEST FUND	78,433,714.57	2.09			83.723.629.67	2.2
COHEN & STEERS	45,741,909.07	1.22			70,835,240.95	1.8
Total Global Listed Infratructure	197,858,330.19	5.26	5.00	0.26	233,410,851.87	6.2
AEW PARTNERS	47,703,519.00	1.27	5.50	0.20	46,482,174.00	1.2
BRASA CAPITAL MGMT	47,703,519.00 16,805,355.00	0.45			46,482,174.00 15,694,491.00	0.4
HEITMAN	80,478,538.74	2.14			80,478,538.74	2.1
INVESCO	59,019,931.10	1.57			59,019,931.10	1.5
NVESCO - SL	76,984,932.00	2.05			76,487,158.00	2.0
LONG WHARF CAPITAL	10,550,010.00	0.28			8,156,899.00	0.2
/IRTUS REAL ESTATE CAP	50,422,548.00	1.34			50,422,548.00	1.3
Total Real Estate	341,964,833.84	9.10	7.50	1.60	336,741,739.84	8.9
Total Real Assets	634,546,591.16		15.00	1.88		
	034,340,381.16	16.88	15.00	1.00	672,196,585.71	17.8
Diversifying Strategies		I	l			
DAVIDSON KEMPNER INST PTRS	53,106,111.00	1.41			52,599,106.00	1.4
HUDSON BAY CAPITAL	52,264,475.00	1.39			51,499,133.00	1.3
	105,370,586.00	2.80	2.50	0.30	104,098,239.00	2.7
Total Marketable Alternatives			0.50	0.00	404 000 000 00	2.7
Total Diversifying Strategies	105.370.586.00	2.80	2.50	0.30	104.098.239.00	2.1
Total Diversifying Strategies	105,370,586.00	2.80	2.50	0.30	104,098,239.00	
	105,370,586.00 62,845,844.68 62,845,844.68	2.80 1.67 <i>1.67</i>	0.00	1.67	32,733,180.10 32,733,180.10	0.8

 Market Value YE 2023
 \$ 3,655,166,195.63
 Market Value Variance

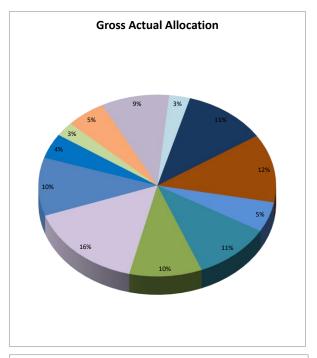
 Change from YE 2023:
 \$ 104,743,754.23

 Change from prior month:
 \$ (86,593,524.98)

Asset Allocation: Actual vs. Target

December 31, 2024

				% Difference
		Gross Actual	Target	from
	Market Value	Allocation	Allocation	Allocation
EQUITY	00 170 107 00			
CHANNING CAPITAL SYSTEMATIC	33,172,187.92 57,339,377.05	0.88 1.53		
Total Small Cap	90,511,564.97	2.41		
T. ROWE PRICE	161,984,088.97	4.31		
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WELLINGTON MGMT	53,268,766.37 102,830,394.66	2.73		
Total Global Equity	197,390,644.57	5.25	5.00	0.2
ACADIAN-LVG	198,776,472.07	5.29	0.00	0.2
BLACKROCK	191,714,540.84	5.10		
SANCTIONED ASSET PORTFOL	79,664.81	0.00		
Total Global Low Volatility Equity	390,570,677.72	10.39	10.00	0.3
FAIRVIEW CAPITAL GROSVENOR GCM - CFIG	106,178,286.00	2.82 4.37		
HAMILTON LANE	164,198,458.00 94,463,690.00	2.51		
Total Private Equity	364,840,434.00	9.70	10.00	-0.3
TOTAL EQUITY	1,821,255,178.34	48.44	48.50	-0.0
FIXED INCOME				
GARCIA HAMILTON	189,012,832.70	5.03		
NTAM AGG BOND INDEX FUND	194,579,089.95	5.18		
WESTERN ASSET MANAGEMENT	5,489.42	0.00		
WELLINGTON-CORE BOND Total Core Fixed Income	199,714,560.58 583,311,972.65	5.31 15.51	17.50	-1.9
BLACKROCK-HY	188,412,786.30	5.01	17.50	-1.9
OAKTREE	193,339,850.97	5.14		
Total High Yield	381,752,637.27	10.15	10.00	0.1
NEUBERGER BERMAN	163,676,158.76	4.35		
Total Credit Opportunistic	163,676,158.76	4.35	4.00	0.3
SILVER POINT - DOIP II	2,516,348.00	0.07		
MGG STRUCTURED SOLUTIONS	4,634,633.00	0.07		
Total Private Credit	7,150,981.00	0.12	2.50	-2.4
Total Fixed Income	1,135,891,749.68	30.21	34.00	-3.7
REAL ESTATE	,, ,			
CENTERSQUARE-SL	47,706,791.98	1.27		
Total REITS	94,723,427.13	2.52	2.50	0.0
ATLANTIC TRUST HARVEST FUND	73,682,706.55 78,433,714.57	1.96 2.09		
COHEN & STEERS	45,741,909.07	1.22		
Total Global Listed Infratructure	197,858,330.19	5.26	5.00	0.2
AEW PARTNERS	47,703,519.00	1.27		
BRASA CAPITAL MGMT	16,805,355.00	0.45		
HEITMAN	80,478,538.74	2.14		
INVESCO - SL	59,019,931.10 76,984,932.00	1.57 2.05		
LONG WHARF CAPITAL	10,550,010.00	2.05 0.28		
VIRTUS REAL ESTATE CAP	50,422,548.00	1.34		
Total Real Estate	341,964,833.84	9.10		
Total Real Assets	634,546,591.16	16.88	15.00	1.8
DAV/IDOON KEMPNED INCT DEDC	E0 400 444 00			
DAVIDSON KEMPNER INST PTRS HUDSON BAY CAPITAL	53,106,111.00 52,264,475.00	1.41 1.39		
Total Diversifying Strategies	105,370,586.00	1.39 2.80	2.50	0.3
Total Diversitying Strategies				
CASH ACCOUNT	62,845,844.68	1.67		





ASSET ALLOCATION COMPARISON

JANUARY 31, 2025

				% Difference		Prior Perio
	Market Value	% of Total Fund	Allocation Policy	from Allocation	Prior Period Market Value	% of Total Fund
Equity	Walket Value	Fullu	Folicy	Anocation	Filor Feriou Market Value	Fullu
CHANNING CAPITAL	34,090,895.63	0.89			33,172,187.92	0.8
SYSTEMATIC	58,066,394.35	1.52			57,339,377.05	1.5
Total Small Cap	92,157,289.98	2.42			90,511,564.97	2.4
Γ. ROWE PRICE	166,627,313.93	4.37			161,984,088.97	4.3
Total Domestic/Enhanced equity	166,627,313.93	4.37			161,984,088.97	4.3
NTGI S&P 500 EQUITY INDEX	170,694,991.79	4.48			166,072,253.48	4.4
Total Index	170,694,991.79	4.48			166,072,253.48	4.4
Total Domestic	429,479,595.70	11.26	12.00	-0.74	418,567,907.42	11.1
ACADIAN	116,603,078.66	3.06	.2.00	V.1. 1	113,495,915.47	3.0
AQR CAPITAL	141.493.168.86	3.71			134.855.589.95	3.5
ATIVO	27,583,376.87	0.72			26,405,377.88	0.7
BAILLIE GIFFORD	83,276,778.77	2.18			79,182,134.26	2.1
EARNEST PARTNERS	100,413,225.17	2.63			95,946,497.07	2.5
Total International	469,369,628.33	12.31	11.50	0.81	, ,	11.9
			11.50	0.61	449,885,514.63	
ARIEL	43,758,094.36	1.15			41,291,483.54	1.1
NTAM ACWI IMI	55,053,325.29	1.44			53,268,766.37	1.4
WELLINGTON MGMT	105,659,528.02	2.77	5 00		102,830,394.66	2.7
Total Global Equity	204,470,947.67	5.36	5.00	0.36	197,390,644.57	5.2
ACADIAN-LVG	204,194,536.52	5.35			198,776,472.07	5.2
BLACKROCK	197,019,214.48	5.17			191,714,540.84	5.1
SANCTIONED ASSET PORTFOL	79,584.60	0.00	40.55		79,664.81	0.0
Total Global Low Volatility Equity	401,293,335.60	10.52	10.00	0.52	390,570,677.72	10.3
FAIRVIEW CAPITAL	111,769,494.00	2.93			106,178,286.00	2.8
GROSVENOR GCM - CFIG HAMILTON LANE	164,198,458.00	4.31			164,198,458.00	4.3
Total Private Equity	94,096,816.00 370,064,768.00	2.47 9.70	10.00	-0.30	94,463,690.00 364,840,434.00	2.5 9.7
Total Equity	1,874,678,275.30	49.15	48.50	0.65	1,821,255,178.34	48.4
Fixed Income						
GARCIA HAMILTON	190,114,284.93	4.98			189,012,832.70	5.0
NTAM AGG BOND INDEX FUND	195,619,583.71	5.13			194,579,089.95	5.1
WESTERN ASSET MANAGEMENT	5,510.07	0.00			5,489.42	0.0
WELLINGTON-CORE BOND	201,130,502.02	5.27			199,714,560.58	5.3
Total Core Fixed Income	586,869,880.73	15.39	17.50	-2.11	583,311,972.65	15.5
BLACKROCK-HY	191,050,108.62	5.01			188,412,786.30	5.0
DAKTREE	196,005,520.34	5.14			193,339,850.97	5.1
Total High Yield	387,055,628.96	10.15	10.00	0.15	381,752,637.27	10.1
NEUBERGER BERMAN	165,241,941.86	4.33			163,676,158.76	4.3
Total Credit Opportunities	165,241,941.86	4.33	4.00	0.33	163,676,158.76	4.3
SILVER POINT - DOIP II	2,516,348.00	0.07			2,516,348.00	0.0
MGG STRUCTURED SOLUTIONS	4,634,633.00	0.12			4,634,633.00	0.1
Total Private Credit	7,150,981.00	0.19	2.50	-2.43	7,150,981.00	0.1
Total Fixed Income	1,146,318,432.55	30.06	34.00	-3.94	1,135,891,749.68	30.2
	, .,, .				,, ,	
Real Assets	47 E77 062 E0	1.25			- 47 016 62F 1F	1.2
ADELANTE CAPITAL CENTERSQUARE-SL	47,577,063.59 48,005,439.64	1.25			47,016,635.15 47,706.791.98	1.2
JENTERSQUARE-SL Total REITS	95,582,503.23	2.51	2.50	0.01	94,723,427.13	2.5
		2.04	2.50	3.01		1.9
ATLANTIC TRUST HARVEST FUND	77,901,113.44	2.04			73,682,706.55	2.0
	82,297,325.67 45,913,967,85	1.20			78,433,714.57 45,741,909,07	1.2
COHEN & STEERS Total Global Listed Infratructure	45,913,967.85 206,112,406.96	1.20 5.40	5.00	0.40	45,741,909.07 197,858,330.19	5.2
	47,459,074.00	1.24	5.00	0.40		1.2
AEW PARTNERS BRASA CAPITAL MGMT	47,459,074.00 16,805,355.00	0.44			47,703,519.00 16,805,355.00	0.4
HEITMAN	76,437,089.13	2.00			80,478,538.74	2.1
NVESCO	54,360,337.54	1.43			59,019,931.10	1.5
NVESCO - SL	76,984,932.00	2.02			76,984,932.00	2.0
ONG WHARF CAPITAL	8,580,778.00	0.22			10,550,010.00	0.2
/IRTUS REAL ESTATE CAP	50,422,548.00	1.32			50,422,548.00	1.3
Total Real Estate	331,050,113.67	8.68	7.50	1.18	341,964,833.84	9.
Total Real Assets	632,745,023.86	16.59	15.00	1.59	634,546,591.16	16.8
Diversifying Strategies		ļ ,		i		
DAVIDSON KEMPNER INST PTRS	53,160,195.00	1.39			53,106,111.00	1.4
HUDSON BAY CAPITAL	53,160,195.00	1.39			52,264,475.00	1.4
Total Marketable Alternatives	105,870,917.00	2.78	2.50	0.28	105,370,586.00	2.8
Total Diversifying Strategies	105,870,917.00	2.78	2.50	0.28	105,370,586.00	2.8
			2.30	0.20		
	E4 256 626 02	1.42			62,845,844.68	1.6
Cash	54,256,626.93					
Cash Total Cash Account	54,256,626.93	1.42	0.00	1.42	62,845,844.68	1.0

Market Value YE 2024 \$ 3,759,909,949.86 Market Value Variance

 Change from YE 2024:
 Market Value Variance

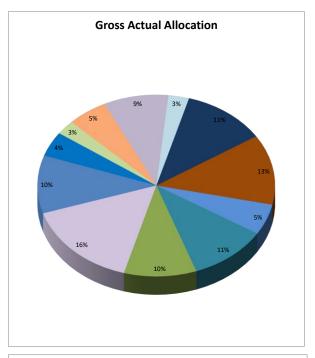
 53,959,325.78

 Change from prior month:
 \$ 53,959,325.78

Asset Allocation: Actual vs. Target

JANUARY 31, 2025

<u> </u>				% Differen
	Market Value	Gross Actual Allocation	Target Allocation	from Allocation
EQUITY	market value	Allocation	Allocation	Allocatio
CHANNING CAPITAL	34,090,895.63	0.89		
SYSTEMATIC	58,066,394.35	1.52		
Total Small Cap	92,157,289.98	2.42		
T. ROWE PRICE	166,627,313.93	4.37		
Total Domestic/Enhanced equity	166,627,313.93	4.37		
NTGI S&P 500 EQUITY INDEX	170,694,991.79	4.48		
Total Index	170,694,991.79	4.48		
Total Domestic	429,479,595.70	11.26	12.00	-0.
ACADIAN Total Bornesic	116,603,078.66	3.06	12.00	
AQR CAPITAL	141,493,168,86	3.71		
ATIVO	27,583,376.87	0.72		
BAILLIE GIFFORD	83,276,778.77	2.18		
EARNEST PARTNERS	100,413,225.17	2.63		
Total International	469,369,628.33	12.31	11.50	0.
ARIEL	43,758,094.36	1.15		
NTAM ACWI IMI	55.053.325.29	1.44		
WELLINGTON MGMT	105,659,528.02	2.77		
Total Global Equity	204,470,947.67	5.36	5.00	0.
ACADIAN-LVG	204,194,536.52	5.35		
BLACKROCK	197,019,214.48	5.17		
SANCTIONED ASSET PORTFOL	79,584.60	0.00		
Total Global Low Volatility Equity	401,293,335.60	<u>10.52</u>	10.00	0.
FAIRVIEW CAPITAL	111,769,494.00	2.93		
GROSVENOR GCM - CFIG	164,198,458.00	4.31		
HAMILTON LANE	94,096,816.00	2.47 9.70	10.00	-0
Total Private Equity	370,064,768.00	49.15	48.50	-0
TOTAL EQUITY FIXED INCOME	1,874,678,275.30	49.13	46.50	·
GARCIA HAMILTON	190,114,284.93	4.98		
NTAM AGG BOND INDEX FUND	195,619,583.71	5.13		
WESTERN ASSET MANAGEMENT	5,510.07	0.00		
WELLINGTON-CORE BOND	201.130.502.02	5.27		
Total Core Fixed Income	586,869,880.73	15.39	17.50	-2
BLACKROCK-HY	191,050,108.62	5.01		
OAKTREE	196,005,520.34	5.14		
Total High Yield	387,055,628.96	10.15	10.00	0
NEUBERGER BERMAN	165,241,941.86	4.33		
Total Credit Opportunistic	165,241,941.86	4.33	4.00	0
OULVED DOUGT. DOUD!!	0.540.040.00	0.07		
SILVER POINT - DOIP II	2,516,348.00	0.07		
MGG STRUCTURED SOLUTIONS	4,634,633.00	0.12		_
Total Private Credit	7,150,981.00	0.07	2.50	-2
Total Fixed Income REAL ESTATE	1,146,318,432.55	30.06	34.00	-3
CENTERSQUARE-SL	48,005,439.64	<u>1.26</u>		
Total REITS	95,582,503.23	2.51	2.50	0
ATLANTIC TRUST	77,901,113.44	2.04		
HARVEST FUND	82,297,325.67	2.16		
COHEN & STEERS	45,913,967.85	1.20		
Total Global Listed Infratructure	206,112,406.96	5.40	5.00	0
AEW PARTNERS	47,459,074.00	1.24		
BRASA CAPITAL MGMT	16,805,355.00	0.44		
HEITMAN INVESCO	76,437,089.13 54,360,337.54	2.00 1.43		
INVESCO - SL	76,984,932.00	2.02		
LONG WHARF CAPITAL	8,580,778.00	0.22		
VIRTUS REAL ESTATE CAP	50,422,548.00	1.32		
Total Real Estate	331,050,113.67	8.68		
Total Real Assets	632,745,023.86	16.59	15.00	1
DAY WELLOW WELLOW WITH THE PROPERTY OF THE PRO	E0 100 105 55			
DAVIDSON KEMPNER INST PTRS HUDSON BAY CAPITAL	53,160,195.00 52,710,722.00	1.39 <u>1.38</u>		
	105,870,917.00	1.36 2.78	2.50	0
Total Diversifying Strategies				
Total Diversifying Strategies CASH ACCOUNT	54,256,626.93	1.42		





Wilshire

ERF of the City of Dallas

Monthly Investment Summary

December 31, 2024

Monthly Index Performance Periods Ended December 31, 2024

	Performance (%)							
	1	VTD	1	3	5	10		
	Month	YTD	Year	Years	Years	Years		
U.S. Equity								
FT Wilshire 5000 Index	-3.03	23.76	23.76	8.11	14.10	12.73		
S&P 500 Index	-2.38	25.02	25.02	8.94	14.53	13.10		
FT Wilshire 4500 Index	-7.34	13.81	13.81	3.34	9.26	9.03		
MSCI USA Minimum Volatility Index	-5.58	15.99	15.99	4.97	8.16	10.36		
U.S. Equity by Size/Style								
FT Wilshire U.S. Large Cap Index	-2.38	25.24	25.24	8.82	14.79	13.28		
FT Wilshire US Large Cap Growth Index	1.39	35.47	35.47	10.88	19.35	16.44		
FT Wilshire US Large Cap Value Index	-6.33	15.21	15.21	6.35	9.83	9.87		
FT Wilshire U.S. Small Cap Index	-7.42	14.12	14.12	3.99	9.53	9.29		
FT Wilshire US Small Cap Growth Index	-7.31	15.54	15.54	2.23	8.83	9.51		
FT Wilshire US Small Cap Value Index	-7.54	12.69	12.69	5.58	9.89	8.83		
FT Wilshire U.S. Micro Cap Index	-6.70	11.09	11.09	-1.75	6.91	7.08		
Non-U.S. Equity (USD)								
MSCI AC World ex USA (Net)	-1.94	5.53	5.53	0.82	4.10	4.80		
MSCI ACWI ex USA Minimum Volatility Index (Net)	-1.22	8.15	8.15	1.53	3.10	4.89		
MSCI EAFE (Net)	-2.27	3.82	3.82	1.65	4.73	5.20		
MSCI Emerging Markets (Net)	-0.14	7.50	7.50	-1.92	1.70	3.64		
MSCI AC World ex USA Small Cap (Net)	-2.13	3.36	3.36	-1.47	4.30	5.66		
U.S. Fixed Income								
Blmbg. U.S. Aggregate Index	-1.64	1.25	1.25	-2.41	-0.33	1.35		
Blmbg. U.S. Treasury: Long	-5.32	-6.41	-6.41	-11.96	-5.20	-0.64		
Blmbg. U.S. Long Corporate Index	-4.30	-1.95	-1.95	-6.82	-1.84	2.20		
Blmbg. U.S. TIPS Index	-1.58	1.84	1.84	-2.30	1.87	2.24		
Blmbg. U.S. Credit Index	-1.89	2.03	2.03	-2.20	0.23	2.29		
Blmbg. U.S. Corp: High Yield Index	-0.43	8.19	8.19	2.92	4.21	5.17		
Morningstar LSTA U.S. Leveraged Loan	0.57	8.96	8.96	7.00	5.86	5.15		

Dallas Total Fund
Periods Ended December 31, 2024

		Per	forma	nce (%)	net of f	ees		Allocation	
1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
-1.90	-0.89	15.76	15.76	5.56	9.30	9.29	9/1/2012	197,390,611	5.25
-3.57	-2.50	13.69	13.69	4.37	5.68	7.61	7/1/2015	390,491,013	10.39
-3.21	1.99	21.68	21.68	7.43	13.34	10.64	1/1/1990	418,567,907	11.13
-1.68	-5.73	8.00	8.00	1.13	5.64	5.60	1/1/1990	449,851,827	11.96
-1.76	-3.47	0.79	0.79	-2.28	0.08	4.20	10/1/1995	583,539,081	15.52
-0.41	0.06	8.20	8.20	3.38	4.32	6.15	1/1/1997	381,766,719	10.15
-0.14	0.96	10.34	10.34	3.28	3.54	5.27	2/1/2016	163,676,159	4.35
0.11	6.91					14.17	6/1/2024	7,150,981	0.19
-1.68	-0.88	1.70	1.70	-0.29	4.66	6.43	1/1/1990	436,688,261	11.61
-6.52	5.37	31.69	31.69	21.03	11.70	7.26	1/1/2012	197,858,330	5.26
1.17	1.22	1.20	1.20	5.38	11.00	12.68	6/1/2009	364,840,434	9.70
1.22	3.07	9.21	9.21			7.26	10/1/2022	105,370,586	2.80
0.40	1.17	5.31	5.31	3.91	2.48	2.87	1/1/1990	62,845,845	1.67
-1.79	-0.79	9.08	9.08	3.23	6.15	8.71	1/1/1985	3,760,037,754	100.00
	Month -1.90 -3.57 -3.21 -1.68 -1.76 -0.41 -0.14 -1.68 -6.52 1.17 1.22 0.40	Month Quarter -1.90 -0.89 -3.57 -2.50 -3.21 1.99 -1.68 -5.73 -1.76 -3.47 -0.41 0.06 -0.14 0.96 0.11 6.91 -1.68 -0.88 -6.52 5.37 1.17 1.22 1.22 3.07 0.40 1.17 -1.79 -0.79	1 Month 1 Quarter YTD -1.90 -0.89 15.76 -3.57 -2.50 13.69 -3.21 1.99 21.68 -1.68 -5.73 8.00 -1.76 -3.47 0.79 -0.41 0.06 8.20 -0.14 0.96 10.34 0.11 6.91 1.70 -6.52 5.37 31.69 1.17 1.22 1.20 1.22 3.07 9.21 0.40 1.17 5.31 -1.79 -0.79 9.08	1 Month 1 Quarter YTD 1 Year -1.90 -0.89 15.76 15.76 -3.57 -2.50 13.69 13.69 -3.21 1.99 21.68 21.68 -1.68 -5.73 8.00 8.00 -1.76 -3.47 0.79 0.79 -0.41 0.06 8.20 8.20 -0.14 0.96 10.34 10.34 0.11 6.91 1.70 1.70 -6.52 5.37 31.69 31.69 1.17 1.22 1.20 1.20 1.22 3.07 9.21 9.21 0.40 1.17 5.31 5.31 -1.79 -0.79 9.08 9.08	1 Month 1 Quarter YTD 1 Year 3 Years -1.90 -0.89 15.76 15.76 5.56 -3.57 -2.50 13.69 13.69 4.37 -3.21 1.99 21.68 21.68 7.43 -1.68 -5.73 8.00 8.00 1.13 -1.76 -3.47 0.79 0.79 -2.28 -0.41 0.06 8.20 8.20 3.38 -0.14 0.96 10.34 10.34 3.28 0.11 6.91 -1.68 -0.88 1.70 1.70 -0.29 -6.52 5.37 31.69 31.69 21.03 1.17 1.22 1.20 1.20 5.38 1.22 3.07 9.21 9.21 0.40 1.17 5.31 5.31 3.91 -1.79 -0.79 9.08 9.08 3.23	1 Month 1 Quarter YTD 1 year 3 years 5 years -1.90 -0.89 15.76 15.76 5.56 9.30 -3.57 -2.50 13.69 13.69 4.37 5.68 -3.21 1.99 21.68 21.68 7.43 13.34 -1.68 -5.73 8.00 8.00 1.13 5.64 -1.76 -3.47 0.79 0.79 -2.28 0.08 -0.41 0.06 8.20 8.20 3.38 4.32 -0.14 0.96 10.34 10.34 3.28 3.54 0.11 6.91 -1.68 -0.88 1.70 1.70 -0.29 4.66 -6.52 5.37 31.69 31.69 21.03 11.70 1.17 1.22 1.20 1.20 5.38 11.00 1.22 3.07 9.21 9.21 -0.40 1.17 5.31 5.31 3.91 2.48 -1.79 -0.79	Month Quarter YTD Year Years Years Inception -1.90 -0.89 15.76 15.76 5.56 9.30 9.29 -3.57 -2.50 13.69 13.69 4.37 5.68 7.61 -3.21 1.99 21.68 21.68 7.43 13.34 10.64 -1.68 -5.73 8.00 8.00 1.13 5.64 5.60 -1.76 -3.47 0.79 0.79 -2.28 0.08 4.20 -0.41 0.06 8.20 8.20 3.38 4.32 6.15 -0.14 0.96 10.34 10.34 3.28 3.54 5.27 0.11 6.91 1.70 -0.29 4.66 6.43 -6.52 5.37 31.69 31.69 21.03 11.70 7.26 1.17 1.22 1.20 1.20 5.38 11.00 12.68 1.22 3.07 9.21 9.21 7.26	1 Month 1 Quarter YTD 1 Year 3 Years 5 Vears Inception Inception Date Inception Date -1.90 -0.89 15.76 15.76 5.56 9.30 9.29 9/1/2012 -3.57 -2.50 13.69 13.69 4.37 5.68 7.61 7/1/2015 -3.21 1.99 21.68 21.68 7.43 13.34 10.64 1/1/1990 -1.68 -5.73 8.00 8.00 1.13 5.64 5.60 1/1/1990 -1.76 -3.47 0.79 0.79 -2.28 0.08 4.20 10/1/1995 -0.41 0.06 8.20 8.20 3.38 4.32 6.15 1/1/1997 -0.14 0.96 10.34 10.34 3.28 3.54 5.27 2/1/2016 0.11 6.91 1.70 -0.29 4.66 6.43 1/1/1990 -6.52 5.37 31.69 31.69 21.03 11.70 7.26 1/1/2012 1.	1 Month 1 Quarter VEAR VEAR

Domestic Equity
Periods Ended December 31, 2024

			Perf	ormai	nce (%)	net of	fees		Allocation	
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Systematic Financial	-6.82	-0.93	10.90	10.90	4.89	9.37	10.56	8/1/2003	57,339,377	13.70
Russell 2000 Index	-8.26	0.33	11.54	11.54	1.24	7.40	8.92			
Channing Capital Russell 2000 Value Index	-7.77 -8.33	-0.32 -1.06	10.65 8.05		2.85 1.94	8.65 7.29	7.18 7.00	12/1/2013	33,172,188	7.93
Domestic Equity Small Cap Composite	-7.17	-0.71	10.66	10.66	1.27	8.77	9.28	6/1/2003	90,511,565	21.62
T. Rowe Price S&P 500 Index	-1.80 -2.38	3.08 2.41		26.80 25.02	10.36 8.94	15.63 14.53	11.25 10.56	4/1/2006	161,984,089	38.70
Northern Trust S&P 500 (Lending) S&P 500 Index	-2.38 -2.38	2.41 2.41		24.96 25.02	8.96 8.94	14.50 14.53	10.96 10.92	1/1/1995	166,072,253	39.68
Domestic Equity Composite	-3.21	1.99		21.68	7.43	13.34	10.64	1/1/1990	418,567,907	100.00
Custom Benchmark ¹ Domestic Equity Blended Benchmark	-3.03 -3.56	2.63 1.97		23.76 21.33	8.12 6.19	14.11 12.10	10.82			

¹ Domestic Equity Composite Custom Benchmark: FT Wilshire 5000 (2Q99-Present); S&P 500 (1Q90-1Q99)

International Equity
Periods Ended December 31, 2024

			Perf	forma	nce (%)	net of	fees		Allocat	ion
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Acadian International	-1.62	-4.62	9.72	9.72	0.95	6.76	8.15	4/1/1989	113,491,308	25.23
Custom Benchmark ¹	-2.13	-7.66	3.36	3.36	-1.47	4.30	5.76			
Ativo International	-2.43	-7.32	1.04	1.04	-1.01	2.79	2.98	1/1/2018	26,405,348	5.87
MSCI EAFE (Net)	-2.27	-8.11	3.82	3.82	1.65	4.73	4.10			
AQR Capital Management	-1.45	-5.80	10.55	10.55	3.36	4.83	3.85	4/1/2006	134,838,891	29.97
Custom Benchmark ²	-1.94	-7.60	5.53	5.53	0.82	4.10	3.45			
Baillie Gifford	-2.68	-7.77	5.85	5.85	-3.56	2.57	5.06	4/1/2019	79,182,134	17.60
MSCI AC World ex USA (Net)	-1.94	-7.60	5.53	5.53	0.82	4.10	5.32			
Earnest Partners	-1.04	-4.76	6.28	6.28	2.94	6.91	7.71	4/1/2019	95,934,147	21.33
MSCI AC World ex USA (Net)	-1.94	-7.60	5.53	5.53	0.82	4.10	5.32			
International Equity Composite	-1.68	-5.73	8.00	8.00	1.13	5.64	5.60	1/1/1990	449,851,827	100.00
Custom Benchmark ³	-1.97	-7.61	5.23	5.23	0.50	4.12	4.60			

¹ Acadian Custom Benchmark: MSCI ACWI x-US Small Cap (3Q09-Present); MSCI EAFE Small Cap (4Q99-2Q09); S&P/Citigroup Eur/Pac EMI Index (2Q96-3Q99); MSCI EAFE (2Q89-1Q96)

² AQR Custom Benchmark: MSCI ACWI x-US (2Q10-Present); MSCI EAFE (1Q06-1Q10)

³ International Equity Composite Custom Benchmark: MSCI ACWI x-US IMI (2Q10-Present); MSCI ACWI x-US (1Q99-1Q10); Wilshire Non-US/Non-SA (2Q96-4Q98; MSCI EAFE (4Q89-1Q96)

Global Equity
Periods Ended December 31, 2024

	Performance (%) net of fees								Allocati	on
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Ariel Global	-1.51	-3.92	7.38	7.38	4.80	7.00	6.57	1/1/2018	41,291,450	20.92
MSCI AC World Index (Net)	-2.37	-0.99	17.49	17.49	5.44	10.06	9.21			
MSCI AC World Index Value (Net)	-5.24	-4.71	10.76	10.76	4.61	6.42	5.64			
NT ACWI IMI Fund MSCI AC World IMI Index (Net)	-2.70 -2.69	-1.16 -1.24					- 1.16 -1.24	10/1/2024	53,268,766	26.99
Wellington MSCI AC World Index (Net)	-1.63 -2.37	0.40 -0.99	20.40 17.49		5.45 5.44	10.55 10.06	11.27 10.12	9/1/2012	102,830,395	52.09
Global Equity Composite MSCI AC World Index (Net)	-1.90 -2.37	-0.89 -0.99	15.76 17.49		5.56 5.44	9.30 10.06	9.29 10.12	9/1/2012	197,390,611	100.00

Global Low Volatility *Periods Ended December 31, 2024*

		Allocati	on							
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Acadian Global Low Vol.	-3.29	-1.55	15.99	15.99	5.92	6.54	7.85	7/1/2015	198,776,472	50.90
MSCI AC World Index (Net)	-2.37	-0.99	17.49	17.49	5.44	10.06	9.44			
MSCI AC World Minimum Volatility Index (Net)	-3.82	-3.49	11.37	11.37	2.48	4.72	7.06			
BlackRock Global Low Vol.	-3.85	-3.46	11.40	11.40	2.81	4.81	7.35	7/1/2015	191,714,541	49.10
MSCI AC World Minimum Volatility Index (Net)	-3.82	-3.49	11.37	11.37	2.48	4.72	7.06			
Global Low Volatility Composite	-3.57	-2.50		13.69	4.37	5.68	7.61	7/1/2015	390,491,013	100.00
MSCI AC World Minimum Volatility Index (Net)	-3.82	-3.49	11.37	11.37	2.48	4.72	7.06			

Private Equity Summary

Periods Ended as of December 31, 2024

	Month-End Market Value	Commitment Value	Drawn Down Capital	Cash Distributions	Inception Date	IRR Since Inception	TVPI Multiple ¹
Hamilton Lane Secondary Fund II	1	25,000,000	22,058,532	31,298,964	Jul-09	13.4%	1.4
Hamilton Lane Secondary Fund III	456,598	30,000,000	23,372,292	29,522,574	Nov-12	8.7%	1.3
Hamilton Lane Secondary Fund IV	9,988,385	30,000,000	25,907,343	29,716,392	Mar-17	14.5%	1.5
Hamilton Lane Secondary Fund V	47,823,322	65,000,000	43,128,993	19,574,475	Mar-20	15.6%	1.6
Hamilton Lane Secondary Fund VI-A	12,524,330	30,000,000	11,211,545	813,729	Feb-23	31.0%	1.2
Hamilton Lane Fund VII Composite	10,583,728	50,000,000	45,600,834	58,182,337	Jan-10	5.6%	1.5
Hamilton Lane Fund VIII (Global)	13,087,326	30,000,000	22,270,594	20,677,688	Nov-12	6.5%	1.5
GCM Grosvenor - Partnership, L.P.	19,793,280	75,000,000	95,722,822	140,126,072	Jun-11	14.0%	1.7
GCM Grosvenor - Partnership II, L.P. (2014)	34,283,551	60,000,000	73,566,185	81,805,018	Jul-14	14.8%	1.6
GCM Grosvenor - Partnership II, L.P. (2015)	63,224,559	55,000,000	49,450,168	13,612,376	Dec-15	13.1%	1.6
GCM Grosvenor - Partnership II, L.P. (2017)	31,096,904	30,000,000	32,380,286	15,179,092	Jan-18	13.2%	1.4
GCM Grosvenor - Advance Fund, L.P.	8,330,305	10,000,000	7,362,810	345,493	Jun-21	9.6%	1.2
GCM Grosvenor - Partnership II, L.P. (2022)	7,469,859	20,000,000	7,070,263	5,461	May-22	2.9%	1.1
Fairview Capital - Lone Star Fund I	47,414,783	40,000,000	33,903,847	21,375,519	Aug-15	12.5%	2.0
Fairview Capital - Lone Star Fund II	35,643,261	30,000,000	23,900,777	4,457,117	Dec-18	13.0%	1.7
Fairview Capital - Lone Star Fund III - A	17,999,349	25,000,000	17,466,368	96,325	Apr-21	0.4%	1.0
Fairview Capital - Lone Star Fund III - B	1,868,079	20,000,000	2,163,208	-	Dec-22	-40.2%	0.9
Fairview Capital - Private Markets Fund VI	3,252,814	10,000,000	3,770,484	210,556	Apr-22	-5.8%	0.9
Total Private Equity Composite	364,840,434	635,000,000	540,307,350	466,999,187	Jul-09	12.5%	1.5

Public Market Equivalent (PME) ² 665,238,487 17.5%

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¹ Total Value to Paid-in Capital ("TVPI") multiple calculation = (market value + distributions) / capital called

² The Public Market Equivalent (PME) approach creates a hypothetical investment vehicle that mimics the private equity composite cash flows. The performance difference between the PME vehicle and the private equity portfolio is determined by their net asset value (NAV) at the end of the benchmarking period. The performance of the "public market" is simulated using the monthly S&P 500 index returns, plus a 300 BPs annual hurdle rate.

Private Real Estate Summary

Periods Ended as of December 31, 2024

	Month-End Market Value	Commitment Value	Drawn Down Capital	Cash Distributions	Inception Date	IRR Since Inception	TVPI Multiple ¹
Invesco II	76,984,932	65,188,333	65,188,333	19,614,151	Jan-14	5.2%	1.5
Total Direct Private Real Estate	76,984,932	65,188,333	65,188,333	19,614,151	Jan-14	5.2%	1.5
	Month-End Market Value	Commitment Value	Drawn Down Capital	Cash Distributions	Inception Date	IRR Since Inception	TVPI Multiple
Heitman America Real Estate Trust	80,478,539	75,000,000	88,210,161	103,497,653	Dec-10	6.3%	2.1
Invesco Core Real Estate USA	59,019,931	75,000,000	76,921,500	103,720,037	Oct-10	9.9%	2.1
Total Core Private Real Estate	139,498,470	150,000,000	165,131,661	207,217,690	Oct-10	8.5%	2.1
	Month-End Market Value	Commitment Value	Drawn Down Capital	Cash Distributions	Inception Date	IRR Since Inception	TVPI Multiple
AEW Partners Real Estate Fund IX	38,341,073	45,000,000	37,592,593	4,134,816	Mar-21	5.3%	1.1
AEW PIX MM Co-Invest	4,196,997	10,000,000	5,132,075	825,454	Nov-21	-0.1%	1.0
AEW PIX Oakland Park Co-Invest	5,165,449	5,000,000	5,000,000	764,960	Feb-22	5.9%	1.2
Virtus Real Estate Capital III	50,422,548	43,281,585	44,340,405	3,714,853	Jan-21	7.9%	1.2
Brasa Real Estate Fund II	16,805,355	20,000,000	18,032,416	1,133,526	Jul-22	-0.3%	1.0
Long Wharf Real Estate Partners VII	10,550,010	20,000,000	11,453,414	713,070	Mar-23	-6.9%	1.0
Total Value-Add Private Real Estate	125,481,432	143,281,585	121,550,903	11,286,679	Jan-21	5.3%	1.1

¹ Total Value to Paid-in Capital ("TVPI") multiple calculation = (market value + distributions) / capital called

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Real Estate

Periods Ended December 31, 2024

				Allocation						
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Adelante Capital Management	-7.31	-4.65	9.77	9.77	-2.36	5.43	9.14	10/1/2001	47,016,635	49.64
Adelante Blended Policy ¹	-7.25	-4.98	9.15	9.15	-2.41	4.57	9.21			
CenterSquare	-7.04	-5.37	11.14	11.14	-1.02	5.75	7.88	6/1/2018	47,706,792	50.36
CenterSquare Blended Policy ¹	-7.25	-4.98	9.15	9.15	-2.41	4.57	6.76			
REIT Composite	-7.17	-5.01	10.46	10.46	-1.69	5.59	9.26	10/1/2001	94,723,427	100.00
REIT Composite Blended Policy ¹	-7.25	-4.98	9.15	9.15	-2.41	4.57	9.21			

¹ Blended Policy: Wilshire U.S. Real Estate Securities Index (Inception-4Q24); FTSE NAREIT Equity REIT Index (1Q25-Present)

Global Listed Infrastructure
Periods Ended December 31, 2024

			Per	formai	nce (%)	net of	fees		Allocati	on
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
CIBC	-6.56	12.49	44.30	44.30	31.01	19.53	10.14	1/1/2012	73,682,707	37.24
CIBC Policy ¹	-6.10	13.47	49.71	49.71	35.37	19.91	7.02			
Harvest Fund Advisors MLP	-6.32	11.08		41.76	30.81	20.00	9.98	1/1/2012	78,433,715	39.64
Harvest Policy ²	-6.10	13.47	49.71	49.71	35.37	19.91	7.02			
C&S Global Listed Infrastructure	-6.75	-6.92	11.39	11.39	3.12		7.13	10/1/2020	45,741,909	23.12
FTSE Global Core Infrastructure 50/50 (Net)	-5.85	-5.74	9.53	9.53	2.12		6.88			
Global Listed Infrastructure Composite	-6.52	5.37	31.69	31.69	21.03	11.70	7.26	1/1/2012	197,858,330	100.00
Global Listed Infrastructure Benchmark ³	-6.04	8.51	38.82	38.82	26.60	13.32	4.72			

¹ CIBC Policy: Alerian Midstream Energy Index (5/24-Present); Alerian MLP Index (1Q12-4/24)

² Harvest Policy: Alerian Midstream Energy Index (5/24-Present); Alerian MLP Index (1Q12-4/24)

³ Global Listed Infrastructure Benchmark: 75% Alerian Midstream Energy Index / 25% FTSE Global Core Infrastructure 50/50 (5/24-Present) 75% Alerian MLP / 25% FTSE Global Core Infrastructure 50/50 (4Q20-4/24); Alerian MLP (1Q12-3Q20)

Fixed Income
Periods Ended December 31, 2024

				Allocati	on					
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Garcia Hamilton	-2.19	-4.40	-0.14	-0.14	-2.31	-0.38	1.79	11/1/2013	189,012,833	32.39
Blmbg. U.S. Aggregate Index	-1.64	-3.06	1.25	1.25	-2.41	-0.33	1.65			
NT Aggregate Bond Index	-1.62	-3.04					-3.04	10/1/2024	194,579,090	33.34
Blmbg. U.S. Aggregate Index	-1.64	-3.06					-3.06			
Wellington Core Bond	-1.50	-3.00	2.26	2.26			2.21	7/1/2022	199,941,669	34.26
Blmbg. U.S. Aggregate Index	-1.64	-3.06	1.25	1.25			1.45			
Western Asset Management									5,489	0.00
Fixed Income Composite	-1.76	-3.47	0.79	0.79	-2.28	0.08	4.20	10/1/1995	583,539,081	100.00
Blmbg. U.S. Aggregate Index	-1.64	-3.06	1.25	1.25	-2.41	-0.33	4.22			

Opportunistic Credit
Periods Ended December 31, 2024

				Allocatio	n					
	1 Month	Performance (%) net of fees 1							Market Value \$	%
Neuberger Berman	-0.14						163,676,159			
Custom Benchmark ¹	-0.42	0.16								

¹ Custom Benchmark: 33% Morningstar LSTA U.S. Leveraged Loan Index / 33% ICE BofA U.S. High Yield Constrained Index / 33% JPM EMBI Global Diversified

Private Credit
Periods Ended December 31, 2024

				Allocation						
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Silver Point DOF II	0.00	10.24					43.60	6/1/2024	2,516,348	35.19
MGG Structured Solutions	0.18	4.93					4.93	8/1/2024	4,634,633	64.81
Private Credit Composite	0.11	6.91					14.17	6/1/2024	7,150,981	100.00

High Yield
Periods Ended December 31, 2024

			Perf	forma	nce (%)	net of	fees		Allocation		
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%	
Oaktree Capital Management	-0.47	-0.07	7.98	7.98	3.25	4.29	6.29	2/1/1997	193,339,851	50.64	
FTSE High Yield Cash Pay	-0.39	0.21	8.34	8.34	3.11	4.17	6.41				
BlackRock FTSE High Yield Cash Pay	-0.36 -0.39	0.19 0.21	8.41 8.34	8.41 8.34	3.51 3.11	4.35 4.17	5.94 6.25	10/1/2006	188,426,868	49.36	
High Yield Composite FTSE High Yield Cash Pay	-0.41 -0.39	0.06 0.21	8.20 8.34	8.20 8.34	3.38 3.11	4.32 4.17	6.15 6.42	1/1/1997	381,766,719	100.00	

Marketable Alternatives *Periods Ended December 31, 2024*

			Per	formai	nce (%)	net of	fees		Allocation	
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Davidson Kempner	0.96	3.37	9.80	9.80			7.64	10/1/2022	53,106,111	50.40
HFRI Event-Driven Total Index	2.72	3.91	14.72	14.72			10.59			
Hudson Bay Capital	1.49	2.77	8.63	8.63			6.88	10/1/2022	52,264,475	49.60
HFRI Relative Value Total Index	1.02	2.64	9.80	9.80			7.49			
Marketable Alternatives Composite	1.22	3.07	9.21	9.21			7.26	10/1/2022	105,370,586	100.00
Marketable Alternatives Policy ¹	1.87	3.28	12.26	12.26			9.05			

¹ Marketable Alternatives Policy: 50% HFRI Event-Driven Total Index / 50% HFRI Relative Value Total Index

Cash

Periods Ended December 31, 2024

				Allocation						
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Cash Account	0.40	1.17	5.31	5.31	3.91	2.48	3.18	1/1/1988	62,845,845	100.00
Managed Short Term Composite	0.40	1.17	5.31	5.31	3.91	2.48	2.87	1/1/1990	62,845,845	100.00

Wilshire

ERF of the City of Dallas

Monthly Investment Summary

Monthly Index Performance Periods Ended January 31, 2025

			Perform	ance (%)		
	1	VTD	1	3	5	10
	Month	YTD	Year	Years	Years	Years
U.S. Equity						
FT Wilshire 5000 Index	3.14	3.14	26.30	11.39	14.81	13.40
S&P 500 Index	2.78	2.78	26.38	11.91	15.17	13.76
FT Wilshire 4500 Index	3.74	3.74	21.37	7.41	10.54	9.68
MSCI USA Minimum Volatility Index	3.60	3.60	17.52	8.38	8.42	10.80
J.S. Equity by Size/Style						
T Wilshire U.S. Large Cap Index	3.05	3.05	26.99	11.98	15.41	13.95
FT Wilshire US Large Cap Growth Index	1.98	1.98	34.59	15.23	19.21	16.78
T Wilshire US Large Cap Value Index	4.27	4.27	19.45	8.48	11.19	10.88
FT Wilshire U.S. Small Cap Index	4.11	4.11	22.03	8.16	10.82	9.93
T Wilshire US Small Cap Growth Index	4.60	4.60	24.27	8.02	9.76	10.07
T Wilshire US Small Cap Value Index	3.53	3.53	19.67	8.21	11.52	9.55
T Wilshire U.S. Micro Cap Index	0.86	0.86	16.02	1.51	8.09	7.65
Non-U.S. Equity (USD)						
MSCI AC World ex USA (Net)	4.03	4.03	10.89	3.45	5.50	5.23
MSCI ACWI ex USA Minimum Volatility Index (Net)	1.14	1.14	9.58	3.11	3.40	4.81
MSCI EAFE (Net)	5.26	5.26	8.65	5.12	6.25	5.69
MSCI Emerging Markets (Net)	1.79	1.79	14.75	-0.71	3.04	3.76
MSCI AC World ex USA Small Cap (Net)	1.33	1.33	6.56	1.12	5.24	5.84
J.S. Fixed Income						
Blmbg. U.S. Aggregate Index	0.53	0.53	2.07	-1.52	-0.60	1.19
Blmbg. U.S. Treasury: Long	0.42	0.42	-3.91	-10.59	-6.36	-1.41
Blmbg. U.S. Long Corporate Index	0.41	0.41	-0.67	-4.88	-2.52	1.69
Blmbg. U.S. TIPS Index	1.29	1.29	2.97	-1.21	1.71	2.06
Blmbg. U.S. Credit Index	0.56	0.56	2.79	-0.95	-0.12	2.06
Blmbg. U.S. Corp: High Yield Index	1.37	1.37	9.68	4.34	4.49	5.24
Morningstar LSTA U.S. Leveraged Loan	0.69	0.69	8.97	7.12	5.88	5.19

Dallas Total Fund *Periods Ended January 31, 2025*

			Per	forma	nce (%)	net of f	ees		Allocati	on
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Global Equity Composite	3.59	5.69	3.59	19.17	8.17	10.19	9.54	9/1/2012	204,470,908	5.36
Global Low Volatility Composite	2.75	2.74	2.75	15.23	6.96	6.14	7.84	7/1/2015	401,213,751	10.53
Domestic Equity Composite	2.61	5.54	2.61	24.52	10.42	14.24	10.69	1/1/1990	429,479,596	11.27
International Equity Composite	4.35	2.92	4.35	12.79	4.40	7.13	5.72	1/1/1990	469,371,582	12.31
Fixed Income Composite	0.57	-0.06	0.57	1.75	-1.43	-0.19	4.20	10/1/1995	586,869,881	15.40
High Yield Composite	1.40	2.18	1.40	9.60	4.70	4.66	6.18	1/1/1997	387,055,629	10.15
Credit Opportunities Composite	1.05	2.21	1.05	10.77	4.24	3.63	5.34	2/1/2016	165,241,942	4.33
Private Credit Composite	0.00	6.91	0.00				14.17	6/1/2024	7,150,981	0.19
Total Real Estate Composite	0.18	0.16	0.18	2.91	0.51	4.70	6.42	1/1/1990	426,632,617	11.19
Global Listed Infrastructure Composite	4.17	8.16	4.17	37.09	20.55	13.61	7.55	1/1/2012	206,112,407	5.41
Private Equity Composite	-0.04	1.40	-0.04	1.43	3.86	11.01	12.62	6/1/2009	368,155,579	9.66
Marketable Alternatives Composite	0.00	2.55	0.00	9.73			7.21	10/1/2022	105,870,917	2.78
Managed Short Term Composite	0.55	1.35	0.55	5.38	4.10	2.56	2.88	1/1/1990	54,256,627	1.42
Dallas Total Fund Policy Index	1.79 1.82	2.50 2.58	1.79 1.82	10.96 13.99	4.69 5.11	6.65 7.05	8.74 9.33	1/1/1985	3,811,882,417	100.00
r oncy muck	1.02	2.36	1.02	13.33	J.11	1.03	9.33		L	

Domestic Equity
Periods Ended January 31, 2025

			Allocati	ion						
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Systematic Financial	1.27	2.13	1.27	15.04	7.16	10.72	10.58	8/1/2003	58,066,394	13.52
Russell 2000 Index	2.62	4.47	2.62	19.09	5.62	8.67	9.02			
Channing Capital	2.77	2.28	2.77	16.50	5.06	10.23	7.38	12/1/2013	34,090,896	7.94
Russell 2000 Value Index	2.05	2.57	2.05	15.52	4.71	8.93	7.14			
Domestic Equity Small Cap Composite	1.82	2.18	1.82	15.41	4.56	9.83	9.33	6/1/2003	92,157,290	21.46
T. Rowe Price	2.87	6.67	2.87	27.15	13.22	16.14	11.35	4/1/2006	166,627,314	38.80
S&P 500 Index	2.78	6.22	2.78	26.38	11.91	15.17	10.67			
Northern Trust S&P 500 (Lending)	2.78	6.22	2.78	26.32	11.92	15.14	11.03	1/1/1995	170,694,992	39.74
S&P 500 Index	2.78	6.22	2.78	26.38	11.91	15.17	10.99			
Domestic Equity Composite	2.61	5.54	2.61	24.52	10.42	14.24	10.69	1/1/1990	429,479,596	100.00
Custom Benchmark ¹	3.14	6.63	3.14	26.30	11.41	14.81	10.89			
Domestic Equity Blended Benchmark ²	2.72	5.82	2.72	24.90	9.62	12.93				

¹ Domestic Equity Composite Custom Benchmark: FT Wilshire 5000 (2Q99-Present); S&P 500 (1Q90-1Q99)

² Blended Benchmark is a target-weighted blend of individual manager benchmarks. For comparison purposes only and does not roll into Total Fund Policy.

International Equity
Periods Ended January 31, 2025

			Per	forma	nce (%)	net of	fees		Allocati	ion
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Acadian International	2.74	2.47	2.74	11.85	4.13	8.01	8.22	4/1/1989	116,603,079	24.84
Custom Benchmark ¹	1.33	-1.27	1.33	6.56	1.12	5.24	5.78			
Ativo International	4.46	1.91	4.46	5.40	2.39	3.96	3.58	1/1/2018	27,583,355	5.88
MSCI EAFE (Net)	5.26	2.28	5.26	8.65	5.12	6.25	4.81			
AQR Capital Management	4.98	3.31	4.98	15.53	5.99	6.52	4.10	4/1/2006	141,493,169	30.15
Custom Benchmark ²	4.03	1.08	4.03	10.89	3.45	5.50	3.65			
Baillie Gifford	5.17	1.86	5.17	11.18	1.28	3.93	5.90	4/1/2019	83,276,779	17.74
MSCI AC World ex USA (Net)	4.03	1.08	4.03	10.89	3.45	5.50	5.95			
Earnest Partners	4.66	4.09	4.66	13.73	5.54	8.71	8.45	4/1/2019	100,415,201	21.39
MSCI AC World ex USA (Net)	4.03	1.08	4.03		3.45	5.50	5.95			
International Equity Composite	4.35	2.92	4.35	12.79	4.40	7.13	5.72	1/1/1990	469,371,582	100.00
Custom Benchmark ³	3.65	0.76	3.65	10.28	3.12	5.46	4.70			

¹ Acadian Custom Benchmark: MSCI ACWI x-US Small Cap (3Q09-Present); MSCI EAFE Small Cap (4Q99-2Q09); S&P/Citigroup Eur/Pac EMI Index (2Q96-3Q99); MSCI EAFE (2Q89-1Q96)

² AQR Custom Benchmark: MSCI ACWI x-US (2Q10-Present); MSCI EAFE (1Q06-1Q10)

³ International Equity Composite Custom Benchmark: MSCI ACWI x-US IMI (2Q10-Present); MSCI ACWI x-US (1Q99-1Q10); Wilshire Non-US/Non-SA (2Q96-4Q98; MSCI EAFE (4Q89-1Q96)

Global Equity
Periods Ended January 31, 2025

			Per	forma	nce (%)	net of	fees		Allocati	ion
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Ariel Global	5.97	7.02	5.97	13.90	6.57	8.41	7.36	1/1/2018	43,758,055	21.40
MSCI AC World Index (Net)	3.36	4.68	3.36	20.72	8.41	11.04	9.60			
MSCI AC World Index Value (Net)	4.20	1.83	4.20	15.58	6.49	8.04	6.19			
NT ACWI IMI Fund	3.35	4.66	3.35				2.15	10/1/2024	55,053,325	26.92
MSCI AC World IMI Index (Net)	3.27	4.41	3.27				2.00			
Wellington	2.75	5.70	2.75	22.16	9.11	11.20	11.43	9/1/2012	105,659,528	51.67
MSCI AC World Index (Net)	3.36	4.68	3.36	20.72	8.41	11.04	10.34			
Global Equity Composite	3.59	5.69	3.59	19.17	8.17	10.19	9.54	9/1/2012	204,470,908	100.00
MSCI AC World Index (Net)	3.36	4.68	3.36	20.72	8.41	11.04	10.34	.,,	, , , , , , , , , , , , , , , , , , , ,	

Global Low Volatility *Periods Ended January 31, 2025*

			Per	forma	nce (%)	net of	fees		Allocation	
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Acadian Global Low Vol.	2.73	3.68	2.73	17.42	8.42	7.19	8.08	7/1/2015	204,194,537	50.89
MSCI AC World Index (Net)	3.36	4.68	3.36	20.72	8.41	11.04	9.73			
MSCI AC World Minimum Volatility Index (Net)	2.64	1.61	2.64	12.85	5.12	4.97	7.28			
BlackRock Global Low Vol.	2.77	1.79	2.77	13.04	5.49	5.10	7.59	7/1/2015	197,019,214	49.11
MSCI AC World Minimum Volatility Index (Net)	2.64	1.61	2.64	12.85	5.12	4.97	7.28			
Global Low Volatility Composite	2.75	2.74	2.75	15.23	6.96	6.14	7.84	7/1/2015	401,213,751	100.00
MSCI AC World Minimum Volatility Index (Net)	2.64	1.61	2.64	12.85	5.12	4.97	7.28			

Private Equity Summary

Periods Ended as of January 31, 2025

	Month-End Market Value	Commitment Value	Drawn Down Capital	Cash Distributions	Inception Date	IRR Since Inception	TVPI Multiple ¹
Hamilton Lane Secondary Fund II	1	25,000,000	22,058,532	31,298,964	Jul-09	13.4%	1.4
Hamilton Lane Secondary Fund III	456,598	30,000,000	23,372,292	29,522,574	Nov-12	8.7%	1.3
Hamilton Lane Secondary Fund IV	9,988,385	30,000,000	25,907,343	29,716,392	Mar-17	14.4%	1.5
Hamilton Lane Secondary Fund V	47,823,322	65,000,000	43,128,993	19,574,475	Mar-20	15.3%	1.5
Hamilton Lane Secondary Fund VI-A	12,524,330	30,000,000	11,211,545	813,729	Feb-23	27.5%	1.2
Hamilton Lane Fund VII Composite	10,583,728	50,000,000	45,600,834	58,182,337	Jan-10	5.6%	1.5
Hamilton Lane Fund VIII (Global)	12,720,452	30,000,000	22,270,594	21,044,562	Nov-12	6.5%	1.5
GCM Grosvenor - Partnership, L.P.	19,793,280	75,000,000	95,722,822	140,126,072	Jun-11	14.0%	1.7
GCM Grosvenor - Partnership II, L.P. (2014)	34,283,551	60,000,000	73,566,185	81,805,018	Jul-14	14.8%	1.6
GCM Grosvenor - Partnership II, L.P. (2015)	63,224,559	55,000,000	49,450,168	13,612,376	Dec-15	13.1%	1.6
GCM Grosvenor - Partnership II, L.P. (2017)	31,096,904	30,000,000	32,380,286	15,179,092	Jan-18	13.2%	1.4
GCM Grosvenor - Advance Fund, L.P.	8,330,305	10,000,000	7,362,810	345,493	Jun-21	9.6%	1.2
GCM Grosvenor - Partnership II, L.P. (2022)	7,469,859	20,000,000	7,070,263	5,461	May-22	2.9%	1.1
Fairview Capital - Lone Star Fund I	47,414,783	40,000,000	33,903,847	21,375,519	Aug-15	12.4%	1.9
Fairview Capital - Lone Star Fund II	35,643,261	30,000,000	23,900,777	4,457,117	Dec-18	12.7%	1.5
Fairview Capital - Lone Star Fund III - A	20,391,269	25,000,000	18,989,017	96,325	Apr-21	2.6%	1.1
Fairview Capital - Lone Star Fund III - B	2,858,178	20,000,000	3,183,307	-	Dec-22	-37.3%	0.8
Fairview Capital - Private Markets Fund VI	3,552,814	10,000,000	4,070,484	210,556	Apr-22	-5.4%	0.9
Total Private Equity Composite	368,155,579	635,000,000	543,150,098	467,366,061	Jul-09	18.3%	1.5

Public Market Equivalent (PME) 2 690,214,734 21.5%

¹ Total Value to Paid-in Capital ("TVPI") multiple calculation = (market value + distributions) / capital called

² The Public Market Equivalent (PME) approach creates a hypothetical investment vehicle that mimics the private equity composite cash flows. The performance difference between the PME vehicle and the private equity portfolio is determined by their net asset value (NAV) at the end of the benchmarking period. The performance of the "public market" is simulated using the monthly S&P 500 index returns, plus a 300 BPs annual hurdle rate.

Private Real Estate Summary

Periods Ended as of January 31, 2025

	Month-End Market Value	Commitment Value	Drawn Down Capital	Cash Distributions	Inception Date	IRR Since Inception	TVPI Multiple ¹
Invesco II	76,984,932	65,188,333	65,188,333	19,614,151	Jan-14	5.2%	1.5
Total Direct Private Real Estate	76,984,932	65,188,333	65,188,333	19,614,151	Jan-14	5.2%	1.5
	Month-End Market Value	Commitment Value	Drawn Down Capital	Cash Distributions	Inception Date	IRR Since Inception	TVPI Multiple
Heitman America Real Estate Trust	76,437,089	75,000,000	88,210,161	108,436,342	Dec-10	6.4%	2.1
Invesco Core Real Estate USA	54,360,338	75,000,000	76,921,500	108,287,736	Oct-10	9.9%	2.1
Total Core Private Real Estate	130,797,427	150,000,000	165,131,661	216,724,078	Oct-10	8.5%	2.1
	Month-End Market Value	Commitment Value	Drawn Down Capital	Cash Distributions	Inception Date	IRR Since Inception	TVPI Multiple
AEW Partners Real Estate Fund IX	38,096,628	45,000,000	37,592,593	4,134,816	Mar-21	4.9%	1.1
AEW PIX MM Co-Invest	4,196,997	10,000,000	5,132,075	825,454	Nov-21	-0.1%	1.0
AEW PIX Oakland Park Co-Invest	5,165,449	5,000,000	5,000,000	764,960	Feb-22	5.7%	1.2
Virtus Real Estate Capital III	50,422,548	43,281,585	44,340,405	3,714,853	Jan-21	7.6%	1.2
Brasa Real Estate Fund II	16,805,355	20,000,000	18,032,416	1,133,526	Jul-22	-0.3%	1.0
Long Wharf Real Estate Partners VII	8,580,778	20,000,000	11,453,414	2,956,238	Mar-23	-2.5%	1.0
Total Value-Add Private Real Estate	123,267,755	143,281,585	121,550,903	13,529,847	Jan-21	5.1%	1.1

¹ Total Value to Paid-in Capital ("TVPI") multiple calculation = (market value + distributions) / capital called

Real Estate
Periods Ended January 31, 2025

			Per	forma	nce (%)	net of	fees		Allocation		
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%	
Adelante Capital Management	1.19	-1.34	1.19	14.88	0.53	5.50	9.16	10/1/2001	47,577,064	49.78	
Adelante Blended Policy ¹	1.04	-1.53	1.04	14.62	0.30	4.63	9.22				
CenterSquare	0.63	-2.28	0.63	16.43	1.51	5.61	7.88	6/1/2018	48,005,440	50.22	
CenterSquare Blended Policy ¹	1.04	-1.53	1.04	14.62	0.30	4.63	6.84				
REIT Composite	0.91	-1.82	0.91	15.66	1.02	5.55	9.27	10/1/2001	95,582,503	100.00	
REIT Composite Blended Policy ¹	1.04	-1.53	1.04	14.62	0.30	4.63	9.22				

¹ Blended Policy: Wilshire U.S. Real Estate Securities Index (Inception-4Q24); FTSE NAREIT Equity REIT Index (1Q25-Present)

Global Listed Infrastructure *Periods Ended January 31, 2025*

			Per	formai	nce (%)	net of	fees		Allocati	on
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
CIBC	5.73	14.38	5.73	50.70	29.58	22.01	10.54	1/1/2012	77,901,113	37.80
CIBC Policy ¹	2.79	10.40	2.79	47.35	31.92	21.97	7.20			
Harvest Fund Advisors MLP Harvest Policy ²	4.93 2.79	12.68 10.40	4.93 2.79	46.44 47.35	28.83 31.92	22.15 21.97	10.32 7.20	1/1/2012	82,297,326	39.93
C&S Global Listed Infrastructure	0.38	-3.90	0.38	14.48	4.60		7.08	10/1/2020	45,913,968	22.28
FTSE Global Core Infrastructure 50/50 (Net)	0.76	-2.44	0.76	13.12	3.44		6.93			
Global Listed Infrastructure Composite Global Listed Infrastructure Benchmark ³	4.17 2.28	8.16 7.15	4.17 2.28		20.55 24.50	13.61 15.15	7.55 4.87	1/1/2012	206,112,407	100.00

¹ CIBC Policy: Alerian Midstream Energy Index (5/24-Present); Alerian MLP Index (1Q12-4/24)

² Harvest Policy: Alerian Midstream Energy Index (5/24-Present); Alerian MLP Index (1Q12-4/24)

³ Global Listed Infrastructure Benchmark: 75% Alerian Midstream Energy Index / 25% FTSE Global Core Infrastructure 50/50 (5/24-Present) 75% Alerian MLP / 25% FTSE Global Core Infrastructure 50/50 (4Q20-4/24); Alerian MLP (1Q12-3Q20)

Fixed Income *Periods Ended January 31, 2025*

			Perf	forma	nce (%)	net of	fees		Allocati	on
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Garcia Hamilton	0.58	-0.28	0.58	0.94	-1.60	-0.59	1.83	11/1/2013	190,114,285	32.39
Blmbg. U.S. Aggregate Index	0.53	-0.07	0.53	2.07	-1.52	-0.60	1.68			
NT Aggregate Bond Index	0.53	-0.06	0.53				-2.52	10/1/2024	195,619,584	33.33
Blmbg. U.S. Aggregate Index	0.53	-0.07	0.53				-2.55			
Wellington Core Bond	0.59	0.17	0.59	2.96			2.37	7/1/2022	201,130,502	34.27
Blmbg. U.S. Aggregate Index	0.53	-0.07	0.53	2.07			1.62			
Western Asset Management									5,510	0.00
Fixed Income Composite	0.57	-0.06	0.57	1.75	-1.43	-0.19	4.20	10/1/1995	586,869,881	100.00
Blmbg. U.S. Aggregate Index	0.53	-0.07	0.53	2.07	-1.52	-0.60	4.23			

Opportunistic Credit
Periods Ended January 31, 2025

				Allocatio	n					
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Neuberger Berman	1.05	2.21	1.05	10.77	4.24	3.63	5.34	2/1/2016	165,241,942	
Custom Benchmark ¹	1.17	1.81	1.17	9.30	4.06	3.48	5.41			

¹ Custom Benchmark: 33% Morningstar LSTA U.S. Leveraged Loan Index / 33% ICE BofA U.S. High Yield Constrained Index / 33% JPM EMBI Global Diversified

Private Credit
Periods Ended January 31, 2025

		Performance (%) net of fees									
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%	
Silver Point DOF II	0.00	10.24	0.00				43.60	6/1/2024	2,516,348	35.19	
MGG Structured Solutions	0.00	4.93	0.00				4.93	8/1/2024	4,634,633	64.81	
Private Credit Composite	0.00	6.91	0.00				14.17	6/1/2024	7,150,981	100.00	

High Yield *Periods Ended January 31, 2025*

			Per	forma	nce (%)	net of	fees		Allocation		
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%	
Oaktree Capital Management	1.39	2.16	1.39	9.35	4.53	4.65	6.32	2/1/1997	196,005,520	50.64	
FTSE High Yield Cash Pay	1.47	2.18	1.47	9.86	4.55	4.49	6.45				
BlackRock	1.41	2.21	1.41	9.84	4.87	4.67	5.99	10/1/2006	191,050,109	49.36	
FTSE High Yield Cash Pay	1.47	2.18	1.47	9.86	4.55	4.49	6.30				
High Yield Composite	1.40	2.18	1.40	9.60	4.70	4.66	6.18	1/1/1997	387,055,629	100.00	
FTSE High Yield Cash Pay	1.47	2.18	1.47	9.86	4.55	4.49	6.46				

Marketable Alternatives *Periods Ended January 31, 2025*

			Perf	orma	nce (%)	net of	fees		Allocation	
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Davidson Kempner	0.00	2.20	0.00	9.91			7.40	10/1/2022	53,160,195	50.21
HFRI Event-Driven Total Index	-0.33	2.05	-0.33	9.76			10.04			
Hudson Bay Capital	0.00	2.90	0.00	9.55			7.01	10/1/2022	52,710,722	49.79
HFRI Relative Value Total Index	0.23	1.87	0.23	8.65			7.32			
Marketable Alternatives Composite	0.00	2.55	0.00	9.73			7.21	10/1/2022	105,870,917	100.00
Marketable Alternatives Policy ¹	-0.05	1.97	-0.05	9.22			8.69			

¹ Marketable Alternatives Policy: 50% HFRI Event-Driven Total Index / 50% HFRI Relative Value Total Index

Cash
Periods Ended January 31, 2025

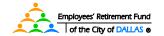
				Allocation						
	1 Month	1 Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value \$	%
Cash Account	0.37	1.16	0.37	5.19	4.04	2.52	3.18	1/1/1988	54,256,627	100.00
Managed Short Term Composite	0.55	1.35	0.55	5.38	4.10	2.56	2.88	1/1/1990	54,256,627	100.00

At A Glance

For period ended January 31, 2025

	20	024		20)25	
Retirements	This Month		YTD	This Month		YTD
Age	11		11	16		16
Service	2		2	0		0
Rule of 78	4		4	6		6
QDRO	<u>0</u>		<u>0</u>	<u>0</u>		<u>0</u>
Total	17		17	22		22
Disability Retirements						
Service	0		0	0		0
Non-service	<u>0</u>		<u>0</u>	<u>0</u>		<u>0</u>
Total	ō		ō	<u> </u>		<u> </u>
Benefits Paid	\$ 28,510,061.24	\$	28,510,061.24	\$ 30,060,679.59	\$	30,060,679.59
Refunds Number of refunds	\$ 818,972.69 69	\$	818,972.69 69	\$ 667,390.13 49	\$	667,390.13 49
*Contributions	\$ 11,719,504.90	\$	11,719,504.90	\$ 12,247,057.74	\$	12,247,057.74

	beneficiaries	Disabilities	Actives	Tier A Actives	Actives
Jan	8,022	118	8,113	3,077	5,036
Feb					
Mar					
April					
May					
June					
July					
Aug					
Sep					
Oct					
Nov					
Dec					

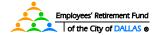


At A Glance

For period ended December 31, 2024

		20	023		20)24	
Retirements	Т	This Month		YTD	This Month		YTD
Age		15		224	18		201
Service		0		13	1		17
Rule of 78		7		82	4		91
QDRO		<u>0</u>		<u>7</u>	<u>0</u>		<u>2</u>
Total		22		3 <mark>2</mark> 6	23		311
Disability Retirements							
Service		0		0	0		0
Non-service		<u>o</u>		<u>5</u>	<u>0</u>		<u>0</u>
Total		ō		<u>5</u> 5	ō		<u>0</u>
Benefits Paid	\$ 2	27,524,422.88	\$	328,485,073.55	\$ 29,063,514.47	\$	349,343,832.35
Refunds	\$	623,915.03	\$	11,978,116.73	\$ 836,436.72	\$	12,330,644.88
Number of refunds		51		919	67		967
*Contributions	\$ 1	11,241,147.29	\$	143,803,276.77	\$ 11,847,639.88	\$	154,351,532.04

	Mem	bers on reco	rd at mon	th end	
	Retirees & beneficiaries	Disabilities	Actives	Tier A Actives	Tier B Actives
Jan	7,903	122	8,015	3,453	4,562
Feb	7,922	121	7,986	3,408	4,578
Mar	7,937	121	8,067	3,386	4,681
April	7,947	121	8,022	3,349	4,673
May	7,962	121	8,034	3,316	4,718
June	7,976	121	8,110	3,298	4,812
July	7,986	121	8,147	3,274	4,873
Aug	7,992	121	8,150	3,248	4,902
Sep	7,987	119	8,098	3,214	4,884
Oct	7,981	118	8,141	3,160	4,981
Nov	8,022	118	8,118	3,130	4,988
Dec	8,033	118	8,113	3,100	5,013









EMPLOYEES' RETIREMENT FUND

BOARD OF TRUSTEES MEETING

PENSION ADMINISTRATION REQUEST FOR PROPOSAL PROCESS

FEBRUARY 11, 9:00 AM

Key Factors for the Pension Administration Software System

- ☐ ERF manages its own information technology network and platform.
- Since 2019, ERF went live and continue to use ViTech 10.0 (onsite solution) with a total cost of \$ 4.8 million (BAFO).
- ☐ Vitech forecast that within the near future, the onsite solutions will not be supported and requires all clients to migrate to a cloud version.
- ☐ Vitech's estimate to migrate to the cloud and annual subscription cost:

Revised Fees w/ Impl Credit						
V3locity Subscription (Incl 10% of Credit)	\$955,456	\$955,456	\$955,456	\$955,456	\$955,456	\$ 4,777,28
Implementation Fee	\$1,388,600	\$992,376				\$ 2,380,97
Implementation Credit	\$ (580,000)	\$ (420,000)				\$ (1,000,00
Net Implementation Fee	\$808,600	\$572,376				\$ 1,380,97
					Total Fees:	\$ 6,158,25

Prior Actions Taken in 2025

- ☐ ERF invited vendors demonstrate their pension administration software to all ERF Staff in January 2025.
- As a result, ERF staff met with three pension software vendors to review and observe the demonstrations, and question the features and capabilities the pension administration software system of the following firms:

Targeted Vendors	Demonstration Date
❖ Pension ID	January 24, 2025
Pension Soft	January 24, 2025
Heywood	January 24, 2025
Vitech	No Demo
Sagitech	No Demo
❖ TELUS	No Demo

2025 Proposal Evaluation Criteria

	Category	weight (pts)
1.	Knowledge, Experience, and Past Performance in Related Fields. The Proposer's knowledge and experience, and past performance in providing public sector - defined benefit plans software and services, and the administration thereof including the ability to calculate retirement benefits, process retiree payroll and proven implementation strategies. This knowledge should be revealed with successful results of current or past clients.	20
2.	<u>Qualifications of Key Personnel</u> . The capability, experience and qualifications of primary personnel designated to serve the Fund before during and after software implementation; the availability and commitment to ERF of such personnel and their continuity with the company; and the ability of such personnel to complete time project milestones regarding software implementation.	10
	Implementation Approach. Proposer should describe why their solution implementation approach will provide ERF with the best chance of a successful project. In addition, Offeror is to provide a detail description for the following Options: • Vendor Hosting (Cloud Based) A. Cloud-Driven Installation: I. Cloud-Native Architecture II. SaaS Model Rapid Deployment B. Time to Implement for New Clients: i. Implementation Timeline Implementation Strategy: ii. Agile Methodology Phased Rollouts Comprehensive Support	15
	Functionality Capabilities A. Defined Benefit Plan Calculation i. Benefit Calculations ii. Service Calculations Pension Plan Rules & Provisions Retirement Processing Withdrawals & Transfers Revisions & Corrections B. Payroll Functionality: i. Employer Payroll Reporting ii. Contributions Processing iii. Cash Receipts & Accounts Receivable C. Customer Relationship Management (CRM) Functionality: i. Unified Customer View Interaction Tracking Case Management D. Member Self-Service Model: i. Digital Self-Service Portals Registrations & ii. Enrollments Document Access & Correspondence E. Report Writing: i. Custom Report Generation / Ai capabilities Real-Time Data Access Data Analytics Integration F. Cloud-Driven Installation: I. Cloud-Native Architecture II. SaaS Model Rapid Deployment G. Training Plan for New Clients: i. Continuous Training Programs Dedicated Account Management	30
5.	<u>Cost</u> . Appropriateness and competitiveness of the cost proposal. This cost should be based on hourly rates, by classification of the organization's service providers.	25
	Total Possible Points	100

Timeline

Solicitation Schedule	Date
RFP Issued	February 12, 2025
Deadline for Questions from Vendors	February 21, 2025
Answers to all Questions from ERF Staff	February 28, 2025
Proposals Due to the Fund	March 28, 2025
Staff Due Diligence update to the Board	April 8, 2025
Staff Recommendation to the Board, Board Selection, Approval and Authorize Chair to sign Contract - Pending Legal Review	June 10, 2025

Recommendation

Authorize ERF Staff to release a Request for Proposal (RFP) to Pension Administration Software providers; staff may conduct due diligence with an update at the April 2025 Board meeting; and finalist recommended to the Board of Trustees at the June 2025 meeting.

Windfall Elimination Provision and the Government Pension Offset - Social Security Fairness Act of 2023 Update.

The recent repeal by Congress of the Windfall Elimination Provision and the Government Pension Offset through the passage of the Social Security Fairness Act of 2023 may have significant implications for public-sector employees, including those affiliated with the Employees' Retirement Fund of the City of Dallas (ERF). The Social Security Fairness Act of 2023 applies to Social Security benefits payable after December 31, 2023.

Background on the Windfall Elimination Provision (WEP) and the Government Pension Offset (GPO):

- Windfall Elimination Provision (WEP): Enacted in 1983, WEP reduces Social Security retirement benefits for individuals who also receive pensions from employment that is not covered by Social Security, such as certain public-sector jobs. This reduction often affects employees who split their careers between covered and non-covered employment.
- Government Pension Offset (GPO): Established in 1977, GPO reduces Social Security spousal or survivor benefits for individuals who receive a government pension from noncovered employment. This provision frequently impacts spouses and widows or widowers of public servants.

Impact of the Repeal on ERF Members:

The Social Security Fairness Act of 2023 does not directly affect any retirement or survivor benefits under ERF. With the repeal of WEP and GPO, however, ERF members who have contributed to Social Security through other employment or are eligible for spousal or survivor benefits may experience the following changes:

- Increased Social Security Benefits: Affected individuals can anticipate an increase in their Social Security benefits. The Social Security Administration (SSA) estimates that the repeal of WEP could boost monthly benefits by approximately \$360 on average, with potential increases of up to \$460 over the next decade. Similarly, the elimination of GPO may result in average monthly benefit increases of \$700 for spouses and \$1,190 for surviving spouses.
- Enhanced Retirement Security: The removal of these provisions addresses previous reductions, thereby enhancing the overall retirement income for many public-sector employees and their families.

Considerations for ERF and Its Members:

While the repeal does not directly alter the benefits provided by ERF, it has implications for the retirement planning of its members:

• Financial Planning Adjustments: Members who have been affected by WEP or GPO should reassess their retirement strategies to account for the possible increase in Social Security benefits. This adjustment may influence decisions regarding savings, investments, and retirement timelines.

• Stay Informed: SSA should provide information to retirees and beneficiaries about the impact of the new law on benefits. Members are also encouraged to consult with financial advisors to understand the full impact of these changes on their individual circumstances. Although ERF representatives can answer general questions, they cannot provide advice regarding Social Security eligibility or benefits or provide individualized financial or retirement planning advice. Members may visit the SSA website at: www.ssa.gov/benefits/retirement/social-security-fairness-act.html

In summary, the repeal of WEP and GPO through the Social Security Fairness Act of 2023 represents a positive development for ERF members, potentially enhancing their retirement income by restoring Social Security benefits that may have been previously reduced by these provisions.