

Austin Fire Fighters Relief and Retirement Fund February 24, 2023

Investment Meeting

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Agenda

Agenda

- 1. Economic and Market Update
- 2. Executive Summary
- 3. 4Q22 Investment Report
- 4. Public manager fee benchmarking
- 5. Passive framework
- 6. Annual Investment Policy Statement Review
- 7. Roadmap
- 8. Appendix
 - Disclaimer, Glossary and Notes

Economic and Market Update

Data as of December 31, 2022



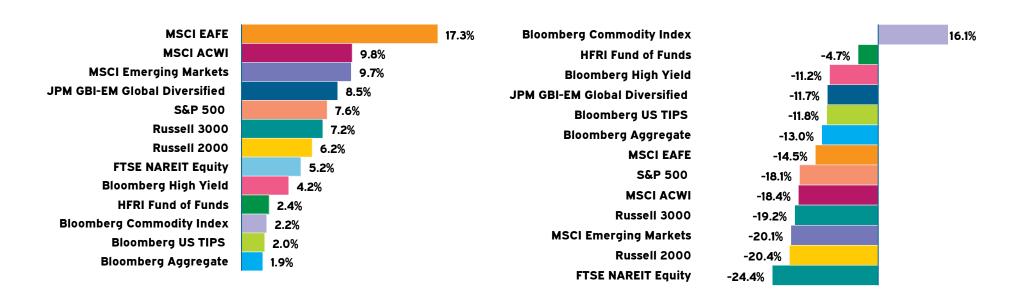
Commentary

- → Ending a very tough year, most asset classes posted gains in the fourth quarter on signs that policy tightening would slow given cooling inflation.
 - Chairman Powell's testimony in November reiterated previous messaging on persistent and high inflation and the need for an extended period of monetary tightening weighing on assets in December. Markets remained focused though on signs that inflation is falling and that the size of future Fed rate hikes could be lower.
 - US equity markets sold off (-5.9%) in December but returned 7.2% in the fourth quarter as investors balanced the Fed's caution with improving inflation data.
 - In developed equity markets outside the US, sentiment deteriorated somewhat in December, but they posted a strong fourth quarter return of 17.3% driven by a falling US dollar and results in Europe where inflation started to slow.
 - Emerging market equities declined in December too (-1.4%) but less than the US and also had a strong fourth quarter (+9.7%). A weaker US dollar, declining inflation globally, and signs of China reopening its economy all contributed to the results.
 - Bonds experienced one of the worst years on record given inflation levels and the rapid rise in interest rates. Optimism over declining inflation and a slower pace of policy tightening benefited bonds overall in the fourth quarter though.
- → Looking to 2023, the path of inflation and monetary policy, slowing growth globally, China reopening its economy, and the war in Ukraine will all be key.

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Fourth Quarter

2022



Index Returns¹

- → After broad declines in Q3 driven by expectations for further policy tightening, most major asset classes were up in the fourth quarter on hopes of inflation and policy tightening peaking.
- → Outside of commodities, all other public market asset classes declined in 2022. It was the first time since the 1960s that both stocks and bonds declined together in a calendar year.

¹ Source: Bloomberg and FactSet. Data is as of December 31, 2022.



	December	Q4	1 YR	3 YR	5 YR	10 YR
Domestic Equity	(%)	(%)	(%)	(%)	(%)	(%)
S&P 500	-5.8	7.6	-18.1	7.7	9.4	12.6
Russell 3000	-5.9	7.2	-19.2	7.1	8.8	12.1
Russell 1000	-5.8	7.2	-19.1	7.3	9.1	12.4
Russell 1000 Growth	-7.7	2.2	-29.1	7.8	11.0	14.1
Russell 1000 Value	-4.0	12.4	-7.5	6.0	6.7	10.3
Russell MidCap	-5.4	9.2	-17.3	5.9	7.1	11.0
Russell MidCap Growth	-6.0	6.9	-26.7	3.9	7.6	11.4
Russell MidCap Value	-5.1	10.5	-12.0	5.8	5.7	10.1
Russell 2000	-6.5	6.2	-20.4	3.1	4.1	9.0
Russell 2000 Growth	-6.4	4.1	-26.4	0.6	3.5	9.2
Russell 2000 Value	-6.6	8.4	-14.5	4.7	4.1	8.5

Domestic Equity Returns¹

US Equities: Russell 3000 Index declined 5.9% for December but gained 7.2% for the quarter. Historic inflation and rapidly rising interest rates led to significant declines (-19.2%) for the full year.

- → US stocks fell broadly in December on the Federal Reserve signaling its continued resolve to raise rates but gained overall for the quarter on hopes that interest rates could be peaking soon given slowing inflation.
- → All sectors declined during December, led by consumer discretionary and technology with defensive sectors declining less. For the quarter though, most sectors were up led by energy and industrials.
- \rightarrow In a continuation on the overall trend in 2022 value stocks outperformed growth stocks in the fourth quarter given higher interest rates and slowing growth.

¹ Source: Bloomberg. Data is as of December 31, 2022.

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Foreign Equity	December (%)	Q4 (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)
MSCI ACWI ex. US	-0.7	14.3	-16.0	0.1	0.9	3.8
MSCI EAFE	0.1	17.3	-14.5	0.9	1.5	4.7
MSCI EAFE (Local Currency)	-3.0	8.7	-7.0	3.6	3.8	7.6
MSCI EAFE Small Cap	1.1	15.8	-21.4	-0.9	0.0	6.2
MSCI Emerging Markets	-1.4	9.7	-20.1	-2.7	-1.4	1.4
MSCI Emerging Markets (Local Currency)	-2.0	6.6	-15.5	0.1	1.3	4.6
MSCI China	5.2	13.5	-21.9	-7.5	-4.5	2.4

Foreign Equity Returns¹

Developed international equities (MSCI EAFE) rose 0.1% in December and an impressive 17.3% in the fourth quarter. Emerging markets (MSCI EM) fell -1.4% in December but gained 9.7% for the quarter. Inflation and rising rates also weighed on international equities last year, as well as a strong US dollar for most of the year.

- → International developed market equities, specifically Europe, held up better relative to the rest of the world in December with the MSCI EAFE up 0.1%. In the fourth quarter, they returned a significant 17.3% due in part to the recent weakness in the US dollar (they returned only 8.7% in local terms) leading to lower declines for the year.
- → In December emerging markets outperformed the US but trailed developed market equities as China's rally was not enough to offset weakness elsewhere (e.g., India -5.5%). For the quarter, a weakening US dollar and China reopening led to strong results (+9.7%), but emerging markets remained the weakest for 2022 due to China.
- \rightarrow Like the US, value outpaced growth globally in 2022.

¹ Source: Bloomberg. Data is as of December 31, 2022.

							Current	
Fixed Income	December (%)	Q4 (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)	Yield (%)	Duration (Years)
Bloomberg Universal	-0.3	2.2	-13.0	-2.5	0.2	1.3	5.1	6.2
Bloomberg Aggregate	-0.5	1.9	-13.0	-2.7	0.0	1.1	4.7	6.4
Bloomberg US TIPS	-1.0	2.0	-11.8	1.2	2.1	1.1	4.4	6.7
Bloomberg High Yield	-0.6	4.2	-11.2	0.0	2.3	4.0	9.0	4.4
JPM GBI-EM Global Diversified (USD)	2.2	8.5	-11.7	-6.1	-2.5	-2.0	5.8	4.9

Fixed Income Returns¹

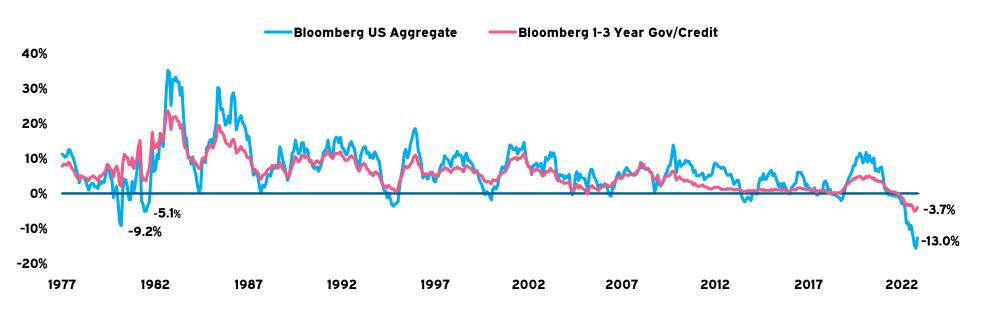
Fixed Income: The Bloomberg Universal fell -0.3% in December but rose 2.2% for the fourth quarter. Last year was one of the worst on record, with the broad bond market declining 13%.

- → The Federal Reserve reconfirming its commitment to tighten policy in the face of high inflation weighed on US fixed income in December. For the quarter though the broad US bond market (Bloomberg Aggregate) was up 1.9% on hopes that inflation would continue to decline and corresponding expectations for the slowing of policy rate hikes.
- → TIPS produced similar results to the broad US bond market for the quarter but outperformed for the year given their inflation adjustment.
- → Riskier bonds outperformed for the quarter due to improving risk sentiment with emerging market bonds performing particularly well.

¹ Source: Bloomberg. JPM GBI-EM data is from InvestorForce. Data is as of December 31, 2022. The yield and duration data from Bloomberg is defined as the index's yield to worst and modified duration respectively.



Fixed Income Rolling One-year Returns¹

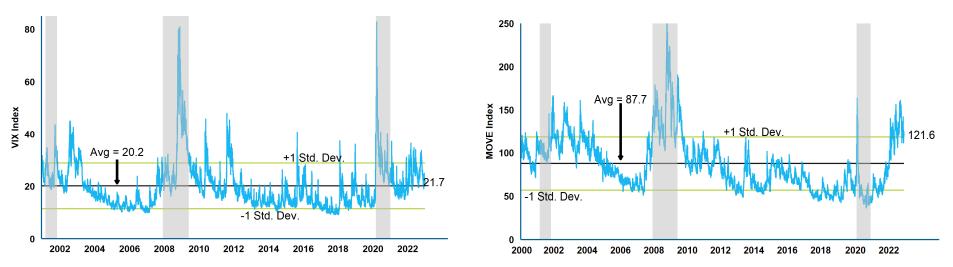


- → Last year was one of the worst return periods for the US bond market given the historic inflation levels and the corresponding rapid rise in interest rates.
- → The broad bond market (Bloomberg US Aggregate) declined 13% in 2022 making it one of the worst periods on record.
- \rightarrow Short-term bond declines were far smaller (-3.7%) last year, but also were one of the worst on record.

¹ Source: Bloomberg. Data is as of December 31, 2022.

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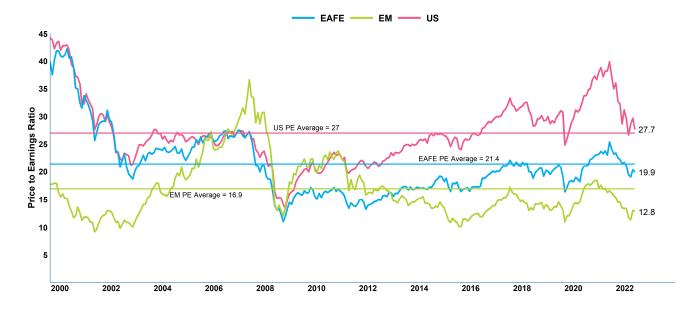


Equity and Fixed Income Volatility¹

- \rightarrow Volatility in equities (VIX) finished the year down from its highs and near its long run average as investors anticipated the potential end of Fed rate hikes this year.
- → Fixed income (MOVE) remained elevated and well above its long-run average at year-end due to the uncertain path of US interest rates as the Federal Reserve continues its hawkish stance on inflation.

¹ Equity and Fixed Income Volatility – Source: Bloomberg. Implied volatility as measured using VIX Index for equity markets and the MOVE Index to measure interest rate volatility for fixed income markets. Data is as of December 2022. The average line indicated is the average of the VIX and MOVE values between January 2000 and the recent month-end respectively.





Equity Cyclically Adjusted P/E Ratios¹

- → After December's sell-off, US equity price-to-earnings ratio finished the year near its long-term (21st century) average.
- → International developed market valuations rose but remain below their own long-term average, with those for emerging markets the lowest and well under the long-term average.
- → Price declines have been the main driver of recent multiple compression as earnings have remained resilient. Concerns remain over whether earnings strength will continue in the face of slowing growth.

¹ US Equity Cyclically Adjusted P/E on S&P 500 Index. Source: Robert Shiller, Yale University, and Meketa Investment Group. Developed and Emerging Market Equity (MSCI EAFE and EM Index) Cyclically Adjusted P/E – Source: MSCI and Bloomberg. Earnings figures represent the average of monthly "as reported" earnings over the previous ten years. Data is as of December 2022. The average line is the long-term average of the US, EM, and EAFE PE values from December 1999 to the recent month-end respectively.





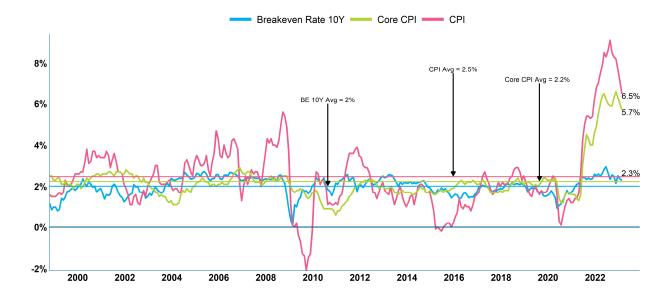
US Yield Curve¹

- → In December, policy-sensitive interest rates at the front-end of the curve continued to rise with the two-year Treasury yield increasing from 4.3% to 4.4%. Longer dated ten-year Treasury yields also increased (3.6% to 3.9%).
 For the year, the yield curve rose dramatically across maturities and moved from steep to inverted.
- → The Fed remains strongly committed to fighting inflation, as it increased rates another 50 basis points to a range of 4.0% to 4.5% at its December meeting. This brought the total number of increases for 2022 to seven.
- → The yield spread between two-year and ten-year Treasuries narrowed somewhat to -0.54% after finishing November at -0.70%. The more closely watched measure by the Fed of three-month and ten-year Treasuries also remained inverted. Historically, inversions in the yield curve have often preceded recessions.

¹ Source: Bloomberg. Data is as of December 31, 2022.

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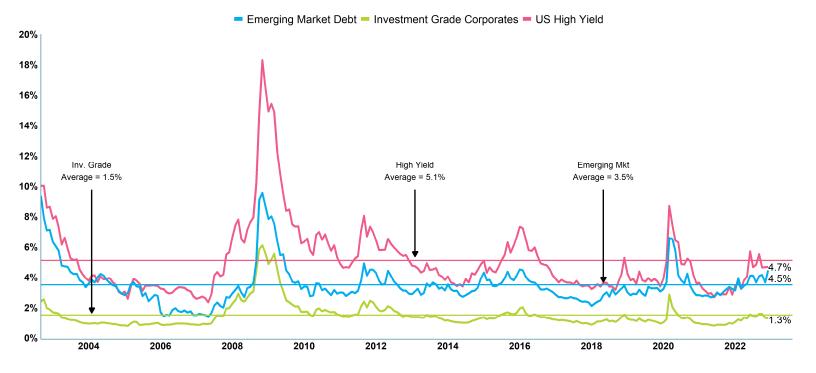
Ten-Year Breakeven Inflation and CPI¹

- → In December inflation continued to decline (6.5% versus 7.1%) matching expectations and providing support for the Fed to slow the pace of policy tightening. Energy prices fell again for the month but remain up 7.3% from a year prior, while food prices fell slightly, and stickier service prices continued to increase.
- → Core inflation excluding food and energy also continued to decline in December (5.7% versus 6.0%) and matched estimates.
- → Inflation expectations (breakevens) declined slightly for the month (2.3% versus 2.4%) and remain well below current inflation levels as investors anticipate a significant moderation in inflation.

¹ Source: Bloomberg. Data is as of December 2022. The CPI and 10 Year Breakeven average lines denote the average values from August 1998 to the present month-end respectively. Breakeven values represent month-end values for comparative purposes.



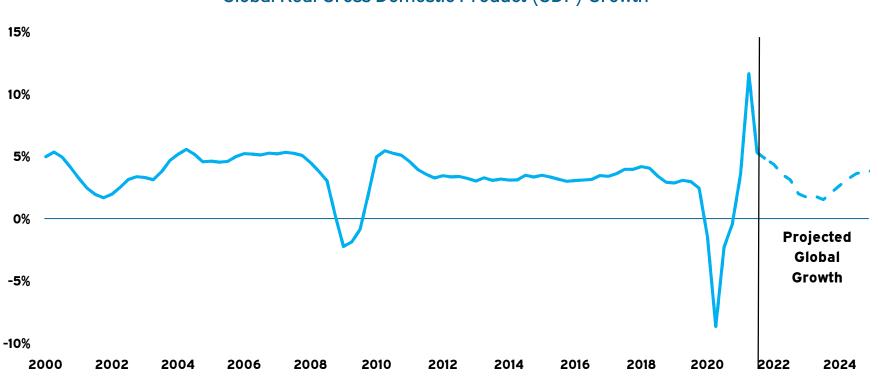
Credit Spreads vs. US Treasury Bonds¹



- → High yield spreads (the added yield above a comparable maturity Treasury) finished December at 4.7% (the same as the end of November) remaining below their long-run average.
- → Investment grade spreads also held steady at 1.3% as attractive yields and strong balance sheets continued to attract investors, while emerging market spreads rose (4.5% versus 3.6%) due to concerns regarding slower growth and lower commodity prices.

¹ Sources: Bloomberg. Data is as of December 31, 2022. Average lines denote the average of the investment grade, high yield, and emerging market spread values from August 2000 to the recent month-end respectively.



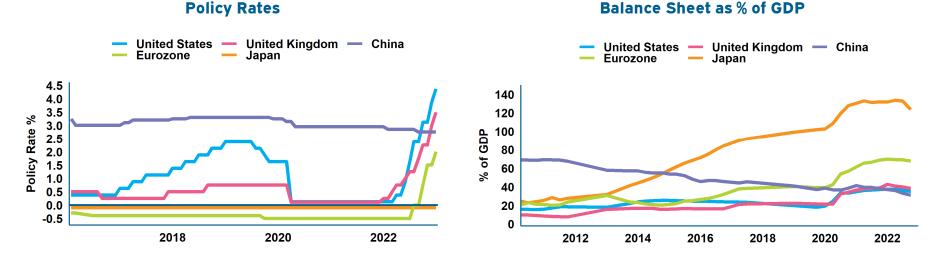


Global Real Gross Domestic Product (GDP) Growth¹

- → Global economies are expected to slow in 2023 compared to 2022, with risks of recession increasing given persistently high inflation and related tighter monetary policy.
- \rightarrow The delicate balancing act of central banks trying to reduce inflation without dramatically impacting growth will remain key.

¹ Source: Oxford Economics (World GDP, US\$ prices & PPP exchange rate, real, % change YoY). Updated December 2022.



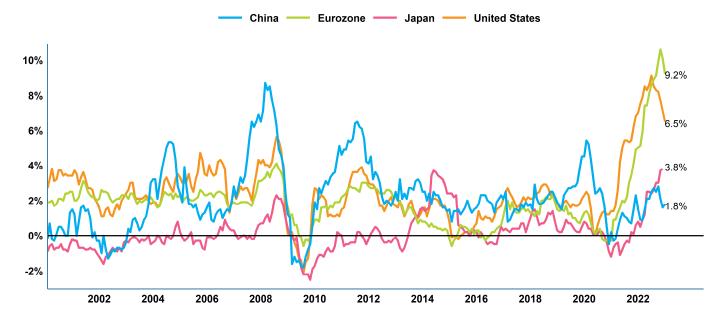


Central Bank Response¹

- → In 2022 many central banks aggressively reduced pandemic-era policy support in the face of high inflation with the US taking a more aggressive approach.
- → In December, the Bank of Japan relaxed its target yield for the 10-year bond which may mark an incremental step toward policy normalization after eight years of quantitative easing.
- → The one notable central bank outlier is China, where the central bank has lowered rates and reserve requirements in response to slowing growth.
- → The risk remains for a policy error, particularly overtightening, as record inflation and aggressive tightening to date could heavily weigh on global growth. The Federal Reserve's policy rate path could diverge from others this year given their strong early start to tightening.

¹ Source: Bloomberg. Policy rate data is as of December 31, 2022. China policy rate is defined as the medium-term lending facility 1 year interest rate. Balance sheet as % of GDP is based on quarterly data and is as of December 31, 2022.

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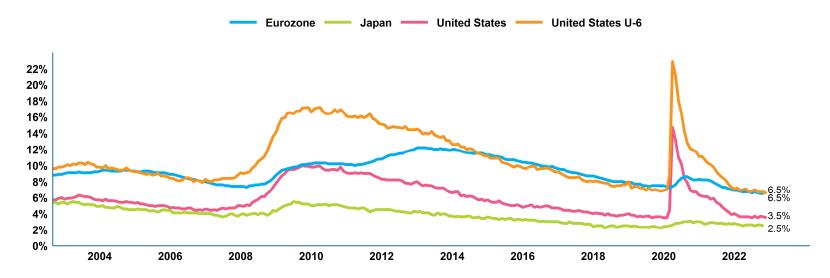


Inflation (CPI Trailing Twelve Months)¹

- → Inflation increased dramatically from the lows of the pandemic, particularly in the US and Eurozone where it has reached levels not seen in many decades.
- → Inflation pressures are slowly declining in the US, but they remain elevated, while in Europe they have reached historic levels due to skyrocketing energy prices and a weak euro.
- → Supply issues related to the pandemic, record monetary and fiscal stimulus, strict COVID-19 restrictions in China, and higher commodity prices driven by the war in Ukraine have been key global drivers of inflation.

¹ Source: Bloomberg. Data is as of December 2022. The most recent Japanese inflation data is as of November 2022.





Unemployment¹

- → As economies have largely reopened, helped by vaccines for the virus, improvements have been seen in the labor market.
- → Despite slowing growth and high inflation, the US labor market remains a bright spot. Unemployment in the US, which experienced the steepest rise from the pandemic, has remained in a tight 3.5%-3.7% range for most of the year.
- → The strong labor market and higher wages, although beneficial for workers, motivates the Fed's efforts to fight inflation, likely leading to higher unemployment.

¹ Source: Bloomberg. Data is as December 31, 2022, for the US. The most recent data for Eurozone and Japanese unemployment is as of November 30, 2022.





US Dollar versus Broad Currencies¹

- → Overall, the US dollar continued to weaken from its recent peak in December as declining inflation supported the case for the Federal Reserve to slow its tightening.
- → The dollar finished the year much higher than it started though due to the increased pace of policy tightening, stronger relative growth, and safe-haven flows.
- → As we look to 2023, the track of inflation across economies and the corresponding monetary policy will likely be key drivers of currency moves.

¹ Source: Bloomberg. Data as of December 31, 2022.



Summary

Key Trends:

- \rightarrow The impacts of record high inflation will remain key, with market volatility likely to stay high.
- \rightarrow Monetary policy could diverge in 2023 with the Fed pausing and others continuing to tighten. The risk of policy errors in both directions remains.
- \rightarrow Growth will continue to slow globally next year, with many economies likely falling into recessions. Inflation, monetary policy, and the war will all be key.
- → In the US the end of many fiscal programs is expected to put the burden of continued growth on consumers. Higher energy and food prices could weigh on consumer spending.
- → Valuations have significantly declined in the US to around long-term averages, largely driven by price declines. The key going forward will be whether earnings can remain resilient if growth continues to slow.
- → Outside the US, equity valuations remain lower in both emerging and developed markets, but risks remain, including potential continued strength in the US dollar, higher inflation particularly weighing on Europe, and China's rushed exit from COVID-19 restrictions and on-going weakness in the real estate sector.

Executive Summary



Executive Summary

4Q 22 Executive Summary

Category	Results	Notes
Total Fund Performance	Positive	4.3% (+\$47 mm net investment change)
Performance vs. Benchmarks	Beat one, Trailed One	4.3% vs. 4.8% (static) and 3.8% (dynamic)
Performance vs. Peers	Underperformed	4.3% vs. 4.8% median (75 th percentile)
Asset Allocation Attribution Effects	Detractive	Underweight international equity hurt as it was the best performing asset class in 4Q
Active Public Managers vs. Benchmarks	Outperformed	7 of 13 active managers beat respective benchmarks (after fees)
Active Public Managers vs. Peer Groups	Outperformed	7 of 12² active managers beat peer group median (after fees)
Compliance with Targets	In Compliance	All exposure within policy ranges

¹ InvMetrics Public DB >\$1B net.

² Excludes Aberdeen EMD. No appropriate peer group for Aberdeen blended currency emerging market debt. Peer groups only exist for local currency or USD strategies.



Executive Summary

Peer Rankings

 \rightarrow The Fund ranks in the top third of \$1 billion+ plans over most longer trailing time periods. Based on the asset allocation, we have noticed the Fund tends to lag over shorter strong US equity driven quarters.

	4 Q	22 - - (S&P 500 \	was +7.6%)					
As of 12/31/22	4Q 22	1 YR	3 YR	5 YR	10 YR			
Peer Ranking	75	54	23	28	30			
	3Q	22 - - (S&P 500)	was - 4.9 %)					
As of 9/30/22	3Q 22	1 YR	3 YR	5 YR	10 YR			
Peer Ranking	88	59	34	34	29			
	20	22 (S&P 500)	was -16.1%)					
As of 6/30/22	2Q 22	1 YR	3 YR	5 YR	10 YR			
Peer Ranking	29	31	9	15	14			
	1Q2	22 - - (S&P 500 v	vas - 4.6%)					
As of 3/31/22	1Q 22	1 YR	3 YR	5 YR	10 YR			
Peer Ranking	55	30	17	19	21			
4Q21 (S&P 500 was +11.0%)								
As of 12/31/21	4Q 21	1 YR	3 YR	5 YR	10 YR			
Peer Ranking	79	10	24	12	20			



Executive Summary

Peer Rankings (continued)

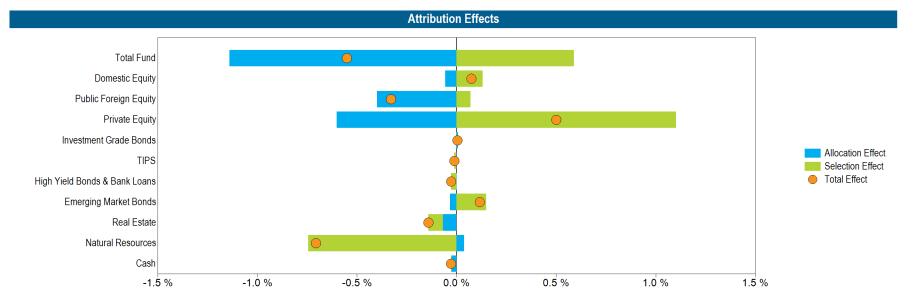
3Q21 (S&P 500 was +0.6%)									
As of 9/30/21	3Q 21	1 YR	3 YR	5 YR	10 YR				
Peer Ranking	5	б	5	11	19				
	20	21 (S&P 500	was +8.5%)						
As of 6/30/21	2Q 21	1 YR	3 YR	5 YR	10 YR				
Peer Ranking	17	20	14	12	27				
	102	21 (S&P 500	was +6.2%)						
As of 3/31/21	1Q 21	1 YR	3 YR	5 YR	10 YR				
Peer Ranking	28	66	35	25	41				
	4Q2	20 (S&P 500	was +12.1%)						
As of 12/31/20	4Q 20	1 YR	3 YR	5 YR	10 YR				
Peer Ranking	35	20	20	22	34				
3Q20 (S&P 500 was +8.9%)									
As of 9/30/20	3Q 20	1 YR	3 YR	5 YR	10 YR				
Peer Ranking	22	44	34	25	41				

Attribution Summary as of December 31,2022



Total Fund Attribution

Summary | As of December 31, 2022



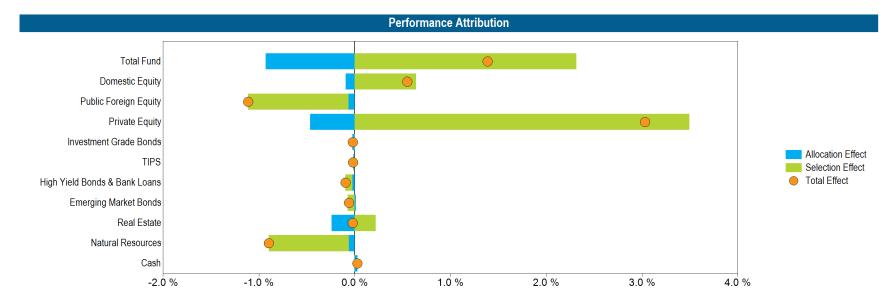
Attribution Summary								
3 Months Ending December 31, 2022								
	Policy Weight	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Total Effects	
Domestic Equity	20.0%	7.9%	7.2%	0.7%	0.1%	-0.1%	0.1%	
Public Foreign Equity	22.0%	14.6%	14.3%	0.3%	0.1%	-0.4%	-0.3%	
Private Equity	15.0%	-0.5%	-6.3%	5.8%	1.1%	-0.6%	0.5%	
Investment Grade Bonds	13.0%	1.8%	1.9%	0.0%	0.0%	0.0%	0.0%	
TIPS	5.0%	1.8%	2.0%	-0.2%	0.0%	0.0%	0.0%	
High Yield Bonds & Bank Loans	5.0%	2.8%	3.3%	-0.6%	0.0%	0.0%	0.0%	
Emerging Market Bonds	7.0%	10.2%	7.3%	2.8%	0.1%	0.0%	0.1%	
Real Estate	10.0%	-4.2%	-3.5%	-0.7%	-0.1%	-0.1%	-0.1%	
Natural Resources	3.0%	-4.2%	18.3%	-22.5%	-0.7%	0.0%	-0.7%	
Cash	0.0%	0.0%	0.8%	-0.8%	0.0%	0.0%	0.0%	
Total	100.0%	4.3%	4.9%	-0.6%	0.6%	-1.1%	-0.6%	

The performance calculation methodology in attribution tables is different from the standard time weighted returns (geometric linkage of monthly returns) found throughout the rest of the report. In attribution tables, the average weight of each asset class (over the specified time period) is multiplied by the time period performance of that asset class and summed. Values may not sum due to rounding.



Total Fund Attribution

Summary | As of December 31, 2022



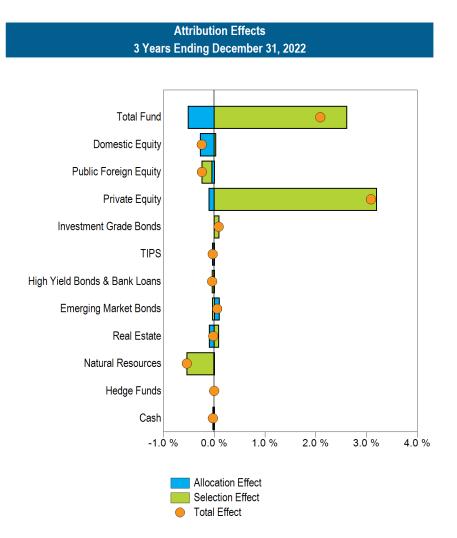
			on Summary				
		1 Year Ending	December 31, 2022				
	Policy Weight	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Total Effects
Domestic Equity	20.0%	-16.0%	-19.2%	3.2%	0.6%	-0.1%	0.5%
Public Foreign Equity	22.0%	-21.1%	-16.0%	-5.1%	-1.0%	-0.1%	-1.1%
Private Equity	15.0%	-1.6%	-19.0%	17.5%	3.5%	-0.5%	3.0%
Investment Grade Bonds	13.0%	-13.0%	-13.0%	0.0%	0.0%	0.0%	0.0%
TIPS	5.0%	-12.0%	-11.8%	-0.2%	0.0%	0.0%	0.0%
High Yield Bonds & Bank Loans	5.0%	-7.3%	-5.8%	-1.5%	-0.1%	0.0%	-0.1%
Emerging Market Bonds	7.0%	-16.6%	-15.2%	-1.3%	-0.1%	0.0%	-0.1%
Real Estate	10.0%	8.3%	5.5%	2.8%	0.2%	-0.2%	0.0%
Natural Resources	3.0%	2.2%	34.1%	-31.9%	-0.8%	-0.1%	-0.9%
Cash	0.0%	0.0%	1.5%	-1.5%	0.0%	0.0%	0.0%
Total	100.0%	-10.7%	-12.1%	1.4%	2.3%	-0.9%	1.4%

The performance calculation methodology in attribution tables is different from the standard time weighted returns (geometric linkage of monthly returns) found throughout the rest of the report. In attribution tables, the average weight of each asset class (over the specified time period) is multiplied by the time period performance of that asset class and summed. Values may not sum due to rounding.



Total Fund Attribution

Summary | As of December 31, 2022

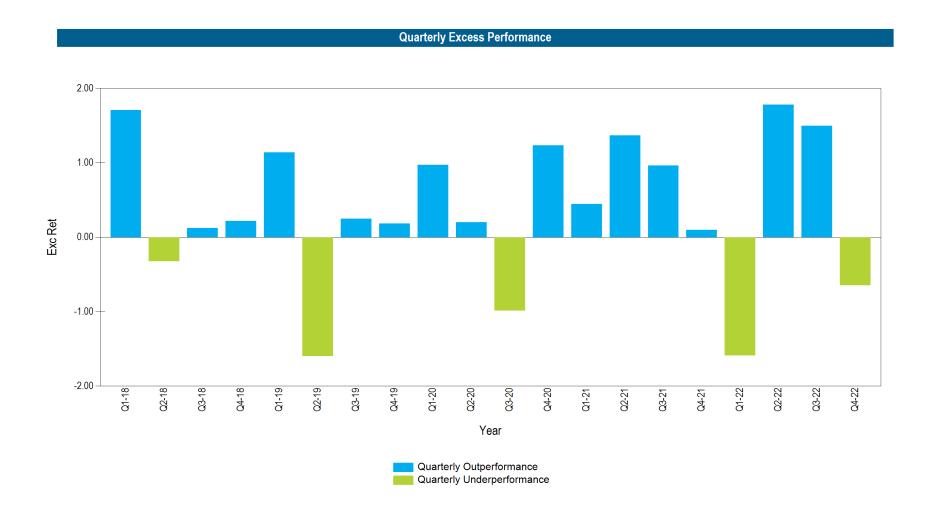


Attribution Summary 3 Years Ending December 31, 2022								
	Wtd	/td. Index Return		Selection Effect	Allocation Effect	Total Effects		
Domestic Equity	6.8%	7.1%	-0.2%	0.0%	-0.3%	-0.2%		
Public Foreign Equity	-1.1%	0.1%	-1.2%	-0.2%	-0.1%	-0.2%		
Private Equity	23.0%	5.8%	17.2%	3.2%	-0.1%	3.1%		
Investment Grade Bonds	-2.1%	-2.7%	0.6%	0.1%	0.0%	0.1%		
TIPS	1.1%	1.2%	-0.1%	0.0%	0.0%	0.0%		
High Yield Bonds & Bank Loans	0.6%	1.1%	-0.5%	0.0%	0.0%	0.0%		
Emerging Market Bonds	-5.6%	-4.8%	-0.8%	0.0%	0.1%	0.1%		
Real Estate	9.0%	8.1%	0.9%	0.1%	-0.1%	0.0%		
Natural Resources	2.2%	15.0%	-12.8%	-0.5%	0.0%	-0.5%		
Hedge Funds					0.0%			
Cash	0.0%	0.6%	-0.6%	0.0%	0.0%	0.0%		
Total	5.8%	3.7%	2.1%	2.6%	-0.5%	2.1%		

The performance calculation methodology in attribution tables is different from the standard time weighted returns (geometric linkage of monthly returns) found throughout the rest of the report. In attribution tables, the average weight of each asset class (over the specified time period) is multiplied by the time period performance of that asset class and summed. Values may not sum due to rounding.

MEKETA

Total Fund Attribution

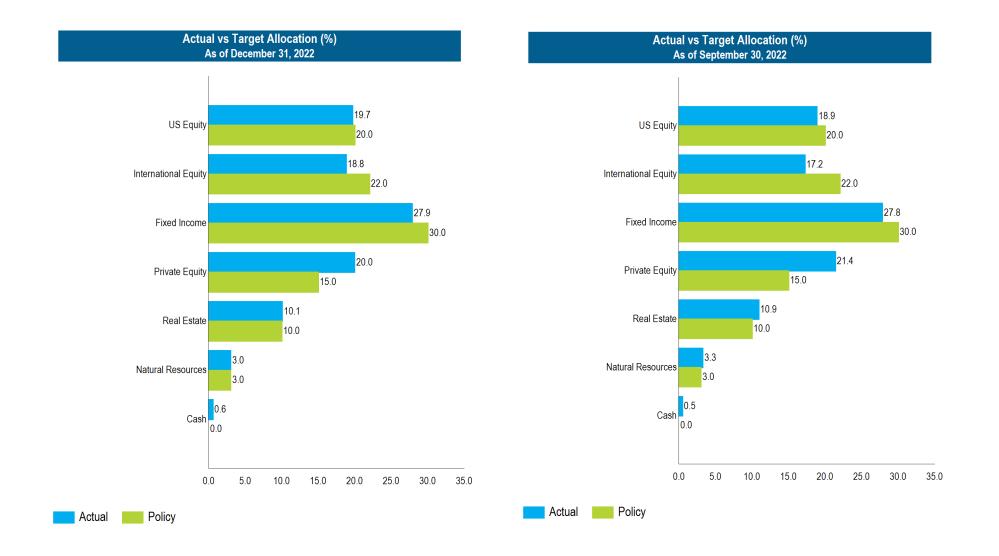


4Q22 Investment Report

Fund Summary

MEKETA

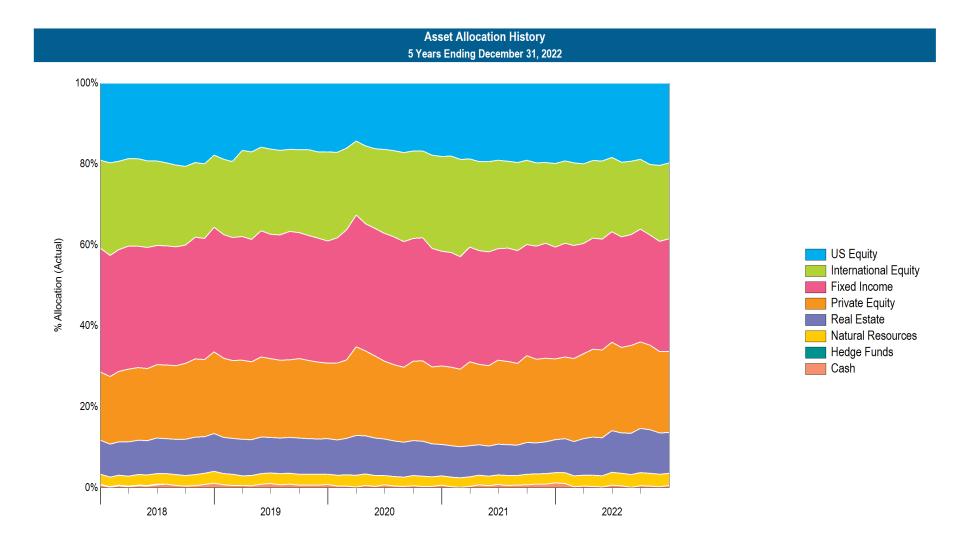
Austin Fire Fighters Relief and Retirement Fund



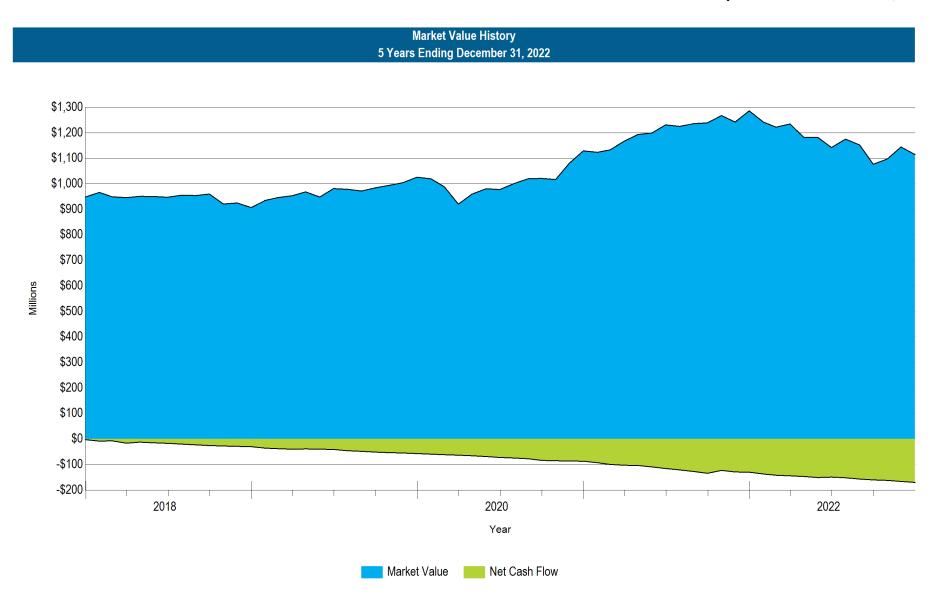


Allocation vs. Targets and Policy								
	Current Balance	Current Allocation	Policy	Policy Range	Within IPS Range?			
US Equity	\$219,473,665	20%	20%	13% - 27%	Yes			
International Equity	\$209,866,495	19%	22%	15% - 29%	Yes			
Fixed Income	\$310,744,524	28%	30%	20% - 40%	Yes			
Private Equity	\$222,712,723	20%	15%	5% - 25%	Yes			
Real Estate	\$112,252,028	10%	10%	0% - 20%	Yes			
Natural Resources	\$33,428,836	3%	3%	0% - 5%	Yes			
Cash	\$6,417,091	1%	0%	0% - 5%	Yes			
Total	\$1,114,895,362	100%	100%					





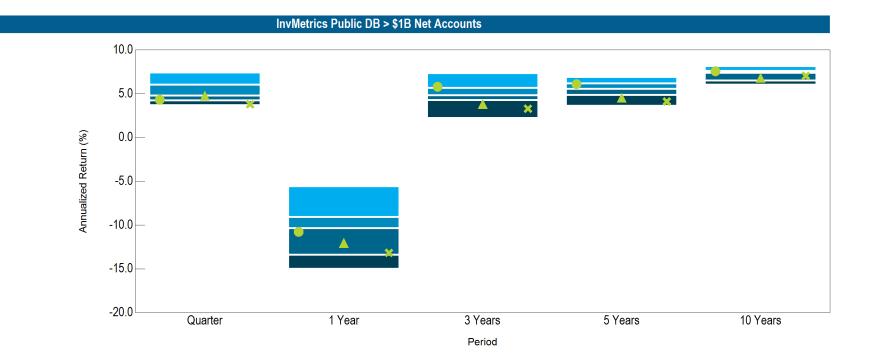








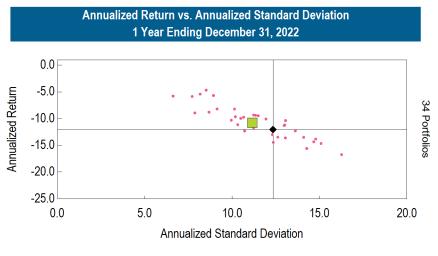




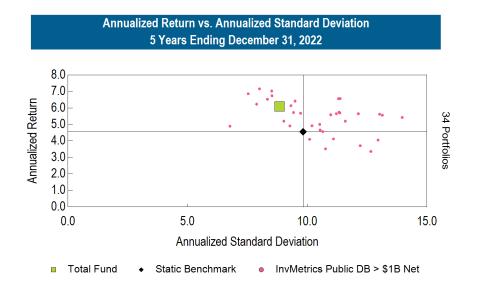
	Return (Rank)					
5th Percentile	7.4	-5.6		7.4	6.9	8.1
25th Percentile	6.1	-9.0		5.7	6.2	7.6
Median	4.8	-10.3		4.8	5.6	7.4
75th Percentile	4.3	-13.4		4.3	4.9	6.5
95th Percentile	3.7	-15.0		2.3	3.6	6.0
# of Portfolios	34	34		34	34	31
Total Fund	4.3	(75) -10.8	(54)	5.8 (23)	6.1 (28) 7.6 (30)
Static Benchmark	4.8	(53) -12.0	(66)	3.8 (82)	4.5 (82	
× Dynamic Benchmark	3.8	(91) -13.2	(74)	3.3 (88)	4.1 (85) 7.0 (53)

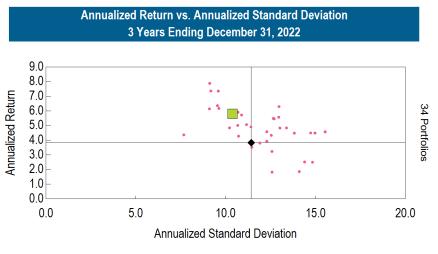


Fund Summary | As of December 31, 2022

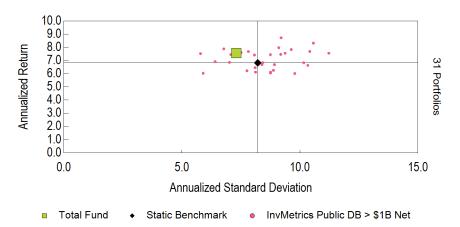


Total Fund
• Static Benchmark • InvMetrics Public DB > \$1B Net





Annualized Return vs. Annualized Standard Deviation 10 Years Ending December 31, 2022



MEKETA INVESTMENT GROUP



Asset Class Performance Summary (Net of Fees)											
	Market Value (\$)	% of Portfolio	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	20 Yrs (%)	25 Yrs (%)	S.I. (%)	S.I. Date
Total Fund	1,114,895,362	100.0	4.3	-10.8	5.8	6.1	7.6	7.4	6.3	6.9	Mar-97
Static Benchmark			4.8	-12.0	<i>3.8</i>	4.5	6.8	6.9			Mar-97
Dynamic Benchmark			3.8	-13.2	<i>3.3</i>	4.1	7.0				Mar-97
60% MSCI ACWI & 40% Barclays Agg			6.6	-16.0	1.6	3.5	5.4	6.3	5.5	5.8	Mar-97
Domestic Equity	219,473,665	19.7	7.9	-16.0	6.8	7.8	10.9	9.8	7.2	8.2	Mar-97
Russell 3000			7.2	-19.2	7.1	<u>8.8</u>	12.1	9.9	7.7	8.6	Mar-97
International Equity	209,866,495	18.8	14.6	-21.1	-1.1	-0.1	4.4	6.2	4.9	5.2	Mar-97
Spliced International Equity Benchmark			14.3	-16.0	0.1	0.9	3.8	6.7	4.9	4.9	Mar-97
Private Equity	222,712,723	20.0	-0.5	-1.7	22.9	20.1	17.0			17.3	May-10
Private Equity Benchmark			-6.3	-19.0	5.8	5.2	12.0			13.0	May-10
Fixed Income	310,744,524	27.9	3.6	-12.7	-1.8	0.5	1.3	3.3	3.9	4.2	Mar-97
Bloomberg US Aggregate TR			1.9	-13.0	-2.7	0.0	1.1	3.1	4.0	4.3	Mar-97
Real Estate	112,252,028	10.1	-4.2	8.3	9.0	8.2	9.0			4.4	Dec-07
NCREIF Property Index			-3.5	5.5	8.1	7.5	8.8	8.6	9.0	6.5	Dec-07
Natural Resources	33,428,836	3.0	-4.2	2.2	2.2	-1.2				1.8	Feb-13
S&P North American Natural Resources TR			18.3	34.1	15.0	7.1	4.1	8.3	6.3	3.6	Feb-13
Cash	6,417,091	0.6									



Trailing Net Performance										
	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Total Fund	1,114,895,362	100.0		4.3	-10.8	5.8	6.1	7.6	6.9	Mar-97
Static Benchmark				4.8	-12.0	3.8	4.5	6.8		Mar-97
Dynamic Benchmark				3.8	-13.2	3.3	4.1	7.0		Mar-97
60% MSCI ACWI & 40% Barclays Agg				6.6	-16.0	1.6	3.5	5.4	5.8	Mar-97
InvMetrics Public DB > \$1B Net Median				4.8	-10.3	4.8	5.6	7.4	6.9	Mar-97
InvMetrics Public DB > \$1B Net Rank				75	54	23	28	30	52	Mar-97
Domestic Equity	219,473,665	19.7	19.7	7.9	-16.0	6.8	7.8	10.9	8.2	Mar-97
Russell 3000				7.2	-19.2	7.1	8.8	12.1	8.6	Mar-97
eV All US Equity Net Median				8.6	-16.9	6.4	7.4	10.9	9.3	Mar-97
eV All US Equity Net Rank				57	46	45	45	50	88	Mar-97
Westwood Capital Large Cap Value	30,054,402	2.7	13.7	11.2	-5.9	6.6	7.8	10.9	8.6	Oct-01
Russell 1000 Value				12.4	-7.5	6.0	6.7	10.3	7.8	Oct-01
eV US Large Cap Value Equity Net Median				12.7	-5.7	7.4	7.5	10.7	8.4	Oct-01
eV US Large Cap Value Equity Net Rank				78	52	64	47	46	40	Oct-01
Westfield Small/Mid Cap Growth	59,026,001	5.3	26.9	6.5	-23.4	6.1	8.3	11.1	12.0	Nov-02
Russell 2500 Growth				4.7	-26.2	2.9	6.0	10.6	10.6	Nov-02
eV US Small-Mid Cap Growth Equity Net Median				4.7	-28.1	5.2	7.9	10.9	10.8	Nov-02
eV US Small-Mid Cap Growth Equity Net Rank				28	25	41	42	46	19	Nov-02



	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Vaughan Nelson Small Cap Value	61,382,721	5.5	28.0	8.0	-9.8	9.0	6.8		8.7	Jan-16
Russell 2000 Value				8.4	-14.5	4.7	4.1	8.5	8.2	Jan-16
eV US Small Cap Value Equity Net Median				10.8	-11.7	6.4	4.6	9.2	8.5	Jan-16
eV US Small Cap Value Equity Net Rank				84	34	21	22	-	45	Jan-16
SSgA S&P 500	69,010,541	6.2	31.4	7.6	-18.1	7.6	9.4	12.5	8.8	Feb-04
S&P 500				7.6	-18.1	7.7	9.4	12.6	8.8	Feb-04
eV US Large Cap Equity Net Median				9.5	-15.4	7.0	8.4	11.5	8.7	Feb-04
eV US Large Cap Equity Net Rank				65	61	38	32	25	48	Feb-04
International Equity	209,866,495	18.8	18.8	14.6	-21.1	-1.1	-0.1	4.4	5.2	Mar-97
Spliced International Equity Benchmark				14.3	-16.0	0.1	0.9	3.8	4.9	Mar-97
Baillie Gifford International Growth Fund	28,945,644	2.6	13.8	13.1	-34.4	-1.1	1.9	6.7	9.0	May-09
MSCI ACWI ex USA				14.3	-16.0	0.1	0.9	3.8	6.2	May-09
MSCI EAFE				17.3	-14.5	0.9	1.5	4.7	6.5	May-09
eV ACWI ex-US All Cap Growth Eq Net Median				12.7	-27.7	1.1	2.3	5.5	8.3	May-09
eV ACWI ex-US All Cap Growth Eq Net Rank				47	86	69	58	32	26	May-09
Sanderson International Value	44,774,719	4.0	21.3	19.0	-15.7	-2.8	-2.0		3.0	Feb-13
MSCI EAFE Value				19.6	-5.6	0.6	0.2	3.5	2.9	Feb-13
MSCI EAFE				17.3	-14.5	0.9	1.5	4.7	4.2	Feb-13
eV EAFE All Cap Value Net Median				18.5	-8.4	1.4	1.0	4.4	4.2	Feb-13
eV EAFE All Cap Value Net Rank				43	94	99	99	-	74	Feb-13



	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Highclere International Small Cap	41,739,584	3.7	19.9	17.0	-24.2	-3.3	-1.9	5.2	6.1	Dec-09
MSCI EAFE Small Cap				15.8	-21.4	-0.9	0.0	6.2	6.4	Dec-09
S&P EPAC Under USD2 Billion NR USD				14.8	-21.5	-1.2	-1.7	4.8	5.0	Dec-09
eV EAFE Small Cap Equity Net Median				16.5	-20.8	-0.2	0.2	6.4	7.1	Dec-09
eV EAFE Small Cap Equity Net Rank				40	71	83	82	87	86	Dec-09
SSgA MSCI EAFE Fund	33,951,983	3.0	16.2	17.3	-14.1	1.2	1.8		4.4	Feb-13
MSCI EAFE				17.3	-14.5	0.9	1.5	4.7	4.2	Feb-13
eV EAFE Core Equity Net Median				16.1	-16.9	0.6	1.1	5.2	4.7	Feb-13
eV EAFE Core Equity Net Rank				27	28	43	34		63	Feb-13
DFA Emerging Markets Value	32,185,126	2.9	15.3	10.3	-10.7	1.0	-0.1	1.7	2.2	Dec-09
MSCI Emerging Markets Value NR USD				9.8	-15.8	-2.6	-1.6	0.1	1.4	Dec-09
MSCI Emerging Markets				9.7	-20.1	-2.7	-1.4	1.4	2.5	Dec-09
eV Emg Mkts All Cap Value Equity Net Median				12.7	-16.0	-0.6	-0.4	2.2	2.3	Dec-09
eV Emg Mkts All Cap Value Equity Net Rank				88	30	29	47	63	57	Dec-09
TT Emerging Markets Equity	28,269,439	2.5	13.5	8.2	-26.9	-4.7			-1.6	Apr-19
MSCI Emerging Markets				<u>9</u> .7	-20.1	-2.7	-1.4	1.4	-0.2	Apr-19
eV Emg Mkts Equity Net Median				10.3	-19.9	-1.6	-0.7	2.1	1.1	Apr-19
eV Emg Mkts Equity Net Rank				75	86	88		-	87	Apr-19



	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Private Equity	222,712,723	20.0	20.0	-0.5	-1.7	22.9	20.1	17.0	17.3	May-10
Private Equity Benchmark				-6.3	-19.0	5.8	5.2	12.0	13.0	May-10
LGT Crown Global Opportunities VI	34,565,133	3.1	15.5							
Constitution Capital Partners	14,470,795	1.3	6.5							
StepStone Global Partners VI	15,293,095	1.4	6.9							
Aberdeen Flag Private Equity VI	14,342,251	1.3	6.4							
Cross Creek Capital Partners II - B	13,770,274	1.2	6.2							
Partners Group Emerging Markets 2015	9,394,785	0.8	4.2							
Cross Creek Capital Partners III	13,653,567	1.2	6.1							
LGT Crown Asia II	9,234,330	0.8	4.1							
57 Stars Global Opportunity 3	8,630,762	0.8	3.9							
HarbourVest Co-Investment Fund IV	7,421,372	0.7	3.3							
Aberdeen Flag Private Equity V	6,443,540	0.6	2.9							
StepStone Global Partners V	9,161,876	0.8	4.1							
HarbourVest 2013 Direct	5,349,627	0.5	2.4							
Dover Street X, L.P.	29,730,803	2.7	13.3							
Blue Bay Direct Lending	2,470,881	0.2	1.1							
Private Advisors Co-Investment Fund III	3,158,737	0.3	1.4							



	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
LGT Crown Europe Small Buyouts III	4,018,138	0.4	1.8							
Deutsche Bank SOF III	2,488,171	0.2	1.1							
SVB Strategic Investors Fund IX, L.P.	15,258,933	1.4	6.9							
LGT Crown Global Secondaries III	2,055,214	0.2	0.9							
Private Equity Investors V	1,240,176	0.1	0.6							
Partners Group U.S. Distressed Private Equity 2009	405,476	0.0	0.2							
LGT Crown Global Secondaries II	154,785	0.0	0.1					_		
Fixed Income	310,744,524	27.9	27.9	3.6	-12.7	-1.8	0.5	1.3	4.2	Mar-97
Bloomberg US Aggregate TR				1.9	-13.0	-2.7	0.0	1.1	4.3	Mar-97
SSgA Bond Fund	83,265,768	7.5	26.8	1.7	-13.2	-2.8	0.0	1.0	3.0	Jan-04
Bloomberg US Aggregate TR				1.9	-13.0	-2.7	0.0	1.1	3.0	Jan-04
eV US Core Fixed Inc Net Median				1.8	-13.1	-2.4	0.2	1.3	3.3	Jan-04
eV US Core Fixed Inc Net Rank				60	61	82	80	83	84	Jan-04
Loomis Sayles Core Plus Fixed Income	53,124,477	4.8	17.1	2.1	-12.7	-1.3	0.9	-	1.8	Jul-15
Bloomberg US Aggregate TR				1.9	-13.0	-2.7	0.0	1.1	0.9	Jul-15
eV US Core Plus Fixed Inc Net Median				2.0	-13.4	-2.1	0.4	1.7	1.5	Jul-15
eV US Core Plus Fixed Inc Net Rank				42	27	19	19	-	24	Jul-15



	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Aberdeen Emerging Markets Bond Fund	65,367,498	5.9	21.0	10.2	-16.6	-5.6	-2.2		0.9	Dec-14
JP Morgan EMBI Global Diversified				8.1	-17.8	-5.3	-1.3	1.6	1.5	Dec-14
50% JPM EMBI GD, 25% JPM GBI EM GD, 25% CMBI Broad				7.3	-15.2	-4.8	-1.1	1.1	1.3	Dec-14
SSgA TIPS	54,551,729	4.9	17.6	1.8	-12.0	1.1	2.0		1.6	Aug-14
Bloomberg US TIPS TR				2.0	-11.8	1.2	2.1	1.1	1.7	Aug-14
eV US TIPS / Inflation Fixed Inc Net Median				2.0	-11.6	1.2	2.2	1.1	1.7	Aug-14
eV US TIPS / Inflation Fixed Inc Net Rank				69	78	79	72	-	72	Aug-14
Pyramis Tactical Bond Fund	34,396,829	3.1	11.1	2.7	-10.9	-0.5	2.0		3.3	Aug-13
Bloomberg US Aggregate TR				1.9	-13.0	-2.7	0.0	1.1	1.4	Aug-13
eV US Core Plus Fixed Inc Net Median				2.0	-13.4	-2.1	0.4	1.7	2.0	Aug-13
eV US Core Plus Fixed Inc Net Rank				13	8	13	4	-	2	Aug-13
Pacific Asset Management Bank Loans	20,038,223	1.8	6.4	2.8	-0.6	2.4			2.6	Dec-19
Credit Suisse Leveraged Loans				2.3	-1.1	2.3	3.2	3.8	2.8	Dec-19
Bank Loan MStar MF Median				2.6	-1.7	1.4	2.4	3.1	1.9	Dec-19
Bank Loan MStar MF Rank				39	18	8			16	Dec-19
Real Estate	112,252,028	10.1	10.1	-4.2	8.3	9.0	8.2	9.0	4.4	Dec-07
NCREIF Property Index				-3.5	5.5	8.1	7.5	<u>8.8</u>	6.5	<i>Dec</i> -07
Clarion Partners Lion Properties Fund	89,758,715	8.1	80.0	-5.4	8.7	10.5	9.4	10.4	6.8	Apr-05
NCREIF ODCE Equal Weighted (Net)				-5.1	7.6	9.7	8.3	9.5	7.0	Apr-05
Portfolio Advisors Real Estate Fund V	7,525,918	0.7	6.7					- 1		
Partners Group Global RE 2011	961,771	0.1	0.9							



	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Metropolitan Real Estate Distressed II	1,055,460	0.1	0.9							
Partners Group Distressed RE 2009	73,335	0.0	0.1							
Partners Group Real Estate Secondary 2017	12,876,829	1.2	11.5							
Natural Resources	33,428,836	3.0	3.0	-4.2	2.2	2.2	-1.2		1.8	Feb-13
S&P North American Natural Resources TR				18.3	34.1	15.0	7.1	4.1	3.6	Feb-13
Aether Real Assets III	11,080,850	1.0	33.1							
Aether Real Assets II	2,854,816	0.3	8.5							
Aether Real Assets IV	11,649,334	1.0	34.8							
Aether Real Assets V	7,843,836	0.7	23.5							
Cash	6,417,091	0.6	0.6							
Cash	6,417,091	0.6	100.0					_		



	Calendar Y	ear Per	formance	e						
	2022 (%)	2021 (%)	2020 (%)	2019 (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)
Total Fund	-10.8	17.6	12.9	15.7	-2.0	17.0	7.1	1.3	4.8	16.1
Static Benchmark	-12.0	14.4	11.2	15.8	-3.6	16.4	9.6	-0.1	5.7	15.1
Dynamic Benchmark	-13.2	14.9	10.5	14.6	-3.1	16.1	8.4	0.4	5.4	21.2
60% MSCI ACWI & 40% Barclays Agg	-16.0	10.2	13.5	19.4	-5.5	15.4	5.9	-1.0	5.0	12.3
Domestic Equity	-16.0	24.6	16.5	29.4	-7.9	21.8	9.9	0.2	10.0	31.3
Russell 3000	-19.2	25.7	20.9	31.0	-5.2	21.1	12.7	0.5	12.6	33.6
Westwood Capital Large Cap Value	-5.9	23.8	3.9	27.3	-5.7	20.4	10.9	-0.1	11.9	29.6
Russell 1000 Value	-7.5	25.2	2.8	26.5	-8.3	13.7	17.3	-3.8	13.5	32.5
Westfield Small/Mid Cap Growth	-23.4	16.2	34.2	35.2	-7.6	31.0	3.4	-4.1	7.8	37.2
Russell 2500 Growth	-26.2	5.0	40.5	<i>32</i> .7	-7.5	24.5	9.7	-0.2	7.1	40.6
Vaughan Nelson Small Cap Value	-9.8	31.0	9.6	25.0	-14.1	6.8	20.7			
Russell 2000 Value	-14.5	28.3	4.6	22.4	-12.9	7.8	31.7	-7.5	4.2	34.5
SSgA S&P 500	-18.1	28.6	18.3	31.5	-4.4	21.8	12.0	1.4	13.7	32.3
S&P 500	-18.1	<i>28</i> .7	18.4	31.5	-4.4	21.8	12.0	1.4	13.7	32.4
International Equity	-21.1	4.1	17.6	22.4	-15.9	34.0	5.0	-4.4	-4.4	19.7
Spliced International Equity Benchmark	-16.0	7.8	10.7	21.5	-14.2	27.2	4.5	-5.7	-3.9	<i>15.3</i>
Baillie Gifford International Growth Fund	-34.4	-9.4	63.0	37.3	-17.3	45.5	1.4	-2.9	-6.4	29.9
MSCI ACWI ex USA	-16.0	7.8	10.7	21.5	-14.2	27.2	4.5	-5.7	-3.9	15.3
MSCI EAFE	-14.5	11.3	7.8	22.0	-13.8	25.0	1.0	-0.8	-4.9	22.8



	2022 (%)	2021 (%)	2020 (%)	2019 (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)
Sanderson International Value	-15.7	7.4	1.5	20.5	-18.2	26.1	2.5	-5.5	-2.3	
MSCI EAFE Value	-5.6	10.9	-2.6	16.1	-14.8	21.4	5.0	-5.7	-5.4	23.0
MSCI EAFE	-14.5	11.3	7.8	22.0	-13.8	25.0	1.0	-0.8	-4.9	22.8
Highclere International Small Cap	-24.2	8.3	10.2	23.5	-18.8	30.9	10.3	6.5	-4.4	24.6
MSCI EAFE Small Cap	-21.4	10.1	12.3	25.0	-17.9	33.0	2.2	9.6	-4.9	29.3
S&P EPAC Under USD2 Billion NR USD	-21.5	8.1	13.7	18.0	-19.6	30.8	3.5	9.0	-4.3	23.6
SSgA MSCI EAFE Fund	-14.1	11.4	8.2	22.4	-13.5	25.3	1.3	-0.6	-4.7	
MSCI EAFE	-14.5	11.3	7.8	22.0	-13.8	25.0	1.0	-0.8	-4.9	22.8
DFA Emerging Markets Value	-10.7	12.4	2.7	9.6	-11.9	33.8	19.8	-18.8	-4.4	-4.4
MSCI Emerging Markets Value NR USD	-15.8	4.0	5.5	12.0	-10.7	28.1	14.9	-18.6	-4.1	-5.1
MSCI Emerging Markets	-20.1	-2.5	18.3	18.4	-14.6	37.3	11.2	-14.9	-2.2	-2.6
TT Emerging Markets Equity	-26.9	-1.0	19.8							
MSCI Emerging Markets	-20.1	-2.5	18.3	18.4	-14.6	37.3	11.2	-14.9	-2.2	-2.6
Private Equity	-1.7	57.0	20.4	16.1	15.8	17.7	9.4	12.7	23.3	7.7
Private Equity Benchmark	-19.0	29.9	12.6	3.4	5.4	25.4	15.3	4.4	17.1	36.3
LGT Crown Global Opportunities VI										
Constitution Capital Partners										
StepStone Global Partners VI										
Aberdeen Flag Private Equity VI										
Cross Creek Capital Partners II - B										



Fund Summary	As of December	31, 2022
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							-			
	2022 (%)	2021 (%)	2020 (%)	2019 (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)
Partners Group Emerging Markets 2015										
Cross Creek Capital Partners III										
LGT Crown Asia II										
57 Stars Global Opportunity 3										
HarbourVest Co-Investment Fund IV										
Aberdeen Flag Private Equity V										
StepStone Global Partners V										
HarbourVest 2013 Direct										
Dover Street X, L.P.										
Blue Bay Direct Lending										
Private Advisors Co-Investment Fund III										
LGT Crown Europe Small Buyouts III										
Deutsche Bank SOF III										
SVB Strategic Investors Fund IX, L.P.										
LGT Crown Global Secondaries III										
Private Equity Investors V										
Partners Group U.S. Distressed Private Equity 2009										
LGT Crown Global Secondaries II										



Fund Summary | As of December 31, 2022

	2022 (%)	2021 (%)	2020 (%)	2019 (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)
Fixed Income	-12.7	0.0	8.3	10.5	-2.0	5.6	6.9	-2.1	3.1	-2.4
Bloomberg US Aggregate TR	-13.0	-1.5	7.5	8.7	0.0	3.5	2.6	0.5	6.0	-2.0
SSgA Bond Fund	-13.2	-1.6	7.5	8.7	0.0	3.5	2.6	0.5	5.9	-2.2
Bloomberg US Aggregate TR	-13.0	-1.5	7.5	8.7	0.0	3.5	2.6	0.5	6.0	-2.0
Loomis Sayles Core Plus Fixed Income	-12.7	-1.1	11.3	9.4	-0.4	5.4	6.9			
Bloomberg US Aggregate TR	-13.0	-1.5	7.5	8.7	0.0	3.5	2.6	0.5	6.0	-2.0
Aberdeen Emerging Markets Bond Fund	-16.6	-4.0	5.0	15.1	-7.5	13.0	13.3	-2.7		
JP Morgan EMBI Global Diversified	-17.8	-1.8	5.3	15.0	-4.3	10.3	10.2	1.2	7.4	-5.3
50% JPM EMBI GD, 25% JPM GBI EM GD, 25% CMBI Broad	-15.2	-3.3	5.2	14.2	-3.9	10.9	10.4	-1.3	3.1	-5.2
SSgA TIPS	-12.0	5.9	10.9	8.3	-1.3	3.0	4.6	-1.5		
Bloomberg US TIPS TR	-11.8	6.0	11.0	8.4	-1.3	3.0	4.7	-1.4	3.6	- 8 .6
Pyramis Tactical Bond Fund	-10.9	1.2	9.3	13.2	-0.9	5.9	10.4	-1.8	5.3	
Bloomberg US Aggregate TR	-13.0	-1.5	7.5	8.7	0.0	3.5	2.6	0.5	6.0	-2.0
Pacific Asset Management Bank Loans	-0.6	5.2	2.6							
Credit Suisse Leveraged Loans	-1.1	5.4	2.8	8.2	1.1	4.2	9.9	-0.4	2.1	6.2
Real Estate	8.3	20.2	-0.6	5.6	8.6	7.5	7.8	13.1	10.5	10.5
NCREIF Property Index	5.5	17.7	1.6	6.4	6.7	7.0	8.0	13.3	11.8	11.0
Clarion Partners Lion Properties Fund	8.7	22.4	1.4	6.3	9.2	8.0	9.3	15.7	12.3	11.8
NCREIF ODCE Equal Weighted (Net)	7.6	21.9	0.8	5.2	7.3	6.9	8.3	14.2	11.4	12.4

Portfolio Advisors Real Estate Fund V

Partners Group Global RE 2011



	2022 (%)	2021 (%)	2020 (%)	2019 (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)
Metropolitan Real Estate Distressed II										
Partners Group Distressed RE 2009										
Partners Group Real Estate Secondary 2017										
Natural Resources	2.2	15.9	-9.9	-13.4	2.1	15.7	8.6	-6.3	6.7	
S&P North American Natural Resources TR	34.1	39.9	-19.0	17.6	-21.1	1.2	30.9	-24.3	-9.8	16.5
Aether Real Assets III										
Aether Real Assets II										
Aether Real Assets IV										
Aether Real Assets V										
Cash										
Cash										



	Statistics Summary						
5 Years Ending December 31, 2022							
	Anlzd Return	Anlzd Standard Deviation	Information Ratio	Sharpe Ratio	Tracking Error		
Total Fund	6.1%	8.8%	0.4	0.6	3.5%		
Static Benchmark	4.5%	9.8%		0.3	0.0%		
Domestic Equity	7.8%	19.7%	-0.3	0.3	3.7%		
Russell 3000	8.8%	19.2%		0.4	0.0%		
Westwood Capital Large Cap Value	7.8%	17.2%	0.3	0.4	3.4%		
Russell 1000 Value	6.7%	18.9%		0.3	0.0%		
Westfield Small/Mid Cap Growth	8.3%	22.9%	0.4	0.3	5.5%		
Russell 2500 Growth	6.0%	23.1%		0.2	0.0%		
Vaughan Nelson Small Cap Value	6.8%	21.5%	0.4	0.3	6.5%		
Russell 2000 Value	4.1%	24.2%		0.1	0.0%		
SSgA S&P 500	9.4%	18.7%	-1.4	0.4	0.0%		
S&P 500	9.4%	18.7%		0.4	0.0%		
International Equity	-0.1%	18.7%	-0.3	-0.1	3.1%		
Spliced International Equity Benchmark	0.9%	17.2%		0.0	0.0%		
Baillie Gifford International Growth Fund	1.9%	23.6%	0.1	0.0	12.6%		
MSCI ACWI ex USA	0.9%	17.2%		0.0	0.0%		
Sanderson International Value	-2.0%	19.4%	-0.5	-0.2	4.0%		



	Anlzd Return	Anlzd Standard Deviation	Information Ratio	Sharpe Ratio	Tracking Error
MSCI EAFE Value	0.2%	19.2%		-0.1	0.0%
Highclere International Small Cap	-1.9%	19.0%	-0.6	-0.2	3.4%
MSCI EAFE Small Cap	0.0%	19.6%		-0.1	0.0%
SSgA MSCI EAFE Fund	1.8%	17.5%	2.1	0.0	O.1%
MSCI EAFE	1.5%	17.5%		0.0	0.0%
DFA Emerging Markets Value	-0.1%	19.9%	0.4	-0.1	3.9%
MSCI Emerging Markets Value NR USD	-1.6%	18.7%	-	-0.1	0.0%
Private Equity	20.1%	11.5%	0.8	1.6	18.3%
Private Equity Benchmark	5.2%	17.4%	-	0.2	0.0%
Fixed Income	0.5%	6.0%	0.1	-0.1	3.4%
Bloomberg US Aggregate TR	0.0%	5.1%	-	-0.2	0.0%
SSgA Bond Fund	0.0%	5.1%	-0.6	-0.2	O.1%
Bloomberg US Aggregate TR	0.0%	5.1%	-	-0.2	0.0%
Loomis Sayles Core Plus Fixed Income	0.9%	5.4%	0.5	0.0	1.7%
Bloomberg US Aggregate TR	0.0%	5.1%	_	-0.2	0.0%
Aberdeen Emerging Markets Bond Fund	-2.2%	12.3%	-0.3	-0.3	2.5%
JP Morgan EMBI Global Diversified	-1.3%	11.1%	_	-0.2	0.0%
SSgA TIPS	2.0%	5.8%	-1.1	0.1	O.1%
Bloomberg US TIPS TR	2.1%	5.8%		0.2	0.0%
Pyramis Tactical Bond Fund	2.0%	6.6%	0.4	0.1	4.6%
Bloomberg US Aggregate TR	0.0%	5.1%		-0.2	0.0%



	Anlzd Return	Anlzd Standard Deviation	Information Ratio	Sharpe Ratio	Tracking Error
Real Estate	8.2%	6.6%	0.4	1.1	2.1%
NCREIF Property Index	7.5%	5.2%		1.2	0.0%
Clarion Partners Lion Properties Fund	9.4%	7.2%	0.7	1.1	1.6%
NCREIF ODCE Equal Weighted (Net)	8.3%	6.7%		1.1	0.0%
Natural Resources	-1.2%	13.0%	-0.2	-0.2	34.2%
S&P North American Natural Resources TR	7.1%	30.8%		0.2	0.0%

Fund Detail

Domestic Equity



Domestic Equity | As of December 31, 2022

Asset Allocation on December 31, 2022						
	Actual	Actual				
Westwood Capital Large Cap Value	\$30,054,402	13.7%				
Westfield Small/Mid Cap Growth	\$59,026,001	26.9%				
Vaughan Nelson Small Cap Value	\$61,382,721	28.0%				
SSgA S&P 500	\$69,010,541	31.4%				
Total	\$219,473,665	100.0%				

Domestic Equity Style Map 3 Years Ending December 31, 2022 Large Large Value SSgA S&P 500 Growth Russell 3000 Dow Jones U.S. Total Stock Market Westwood Capital Large Cap Value Domestic Equity Vaughan Nelson Small Cap Value Westfield Small/Mid Cap Growth

Small

Value

Small

Growth

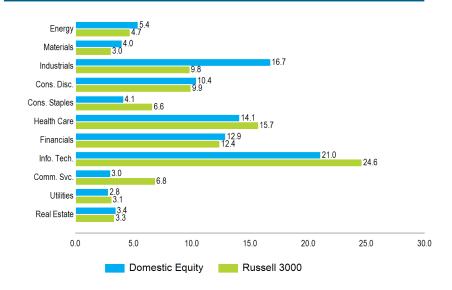
MEKETA

Austin Fire Fighters Relief and Retirement Fund

Domestic Equity | As of December 31, 2022

Domestic Equity Characteristics						
	Portfolio	Index	Portfolio			
	Q4-22	Q4-22	Q3-22			
Market Value						
Market Value (\$M)	219.5		203.2			
Number Of Holdings	623	2960	619			
Characteristics						
Weighted Avg. Market Cap. (\$B)	170.3	360.3	184.9			
Median Market Cap (\$B)	23.3	2.5	21.3			
P/E Ratio	17.1	18.5	16.4			
Yield	1.6	1.7	1.7			
EPS Growth - 5 Yrs.	18.8	17.2	18.6			
Price to Book	3.1	3.6	3.0			

Sector Allocation (%) vs Russell 3000



Top 10 Holdings	
MICROSOFT CORP	2.2%
APPLE INC	1.9%
FMC CORP.	1.1%
INSIGHT ENTERPRISES INC	1.0%
SAIA INC	1.0%
ELEMENT SOLUTIONS INC	1.0%
JOHNSON & JOHNSON	1.0%
JPMORGAN CHASE & CO	0.9%
BERKSHIRE HATHAWAY INC	0.9%
UNITEDHEALTH GROUP INC	0.9%
Total	11.8 %

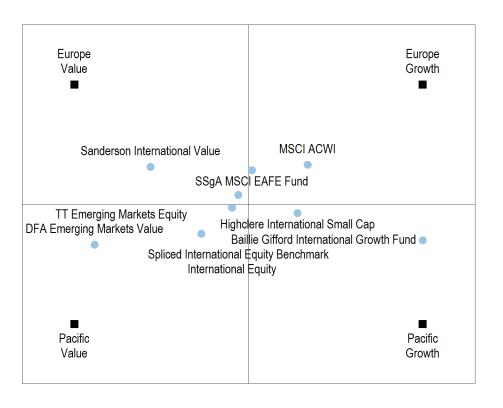
International Equity



International Equity | As of December 31, 2022

Asset Allocation on December 31, 2022					
	Actual	Actual			
Baillie Gifford International Growth Fund	\$28,945,644	13.8%			
Sanderson International Value	\$44,774,719	21.3%			
Highclere International Small Cap	\$41,739,584	19.9%			
SSgA MSCI EAFE Fund	\$33,951,983	16.2%			
DFA Emerging Markets Value	\$32,185,126	15.3%			
TT Emerging Markets Equity	\$28,269,439	13.5%			
Total	\$209,866,495	100.0%			





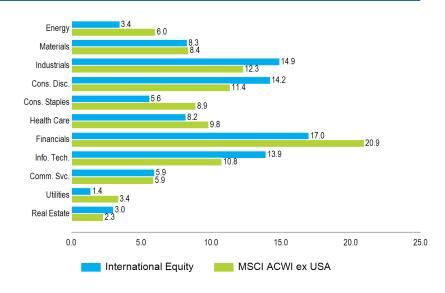
MEKETA

Austin Fire Fighters Relief and Retirement Fund

International Equity | As of December 31, 2022

Total	International Equity	Characteristics	
	Portfolio	Index	Portfolio
	Q4-22	Q4-22	Q3-22
Market Value			
Market Value (\$M)	209.9		185.7
Number Of Holdings	4236	2259	4270
Characteristics			
Weighted Avg. Market Cap. (\$B)	57.8	80.7	51.6
Median Market Cap (\$B)	1.0	8.9	0.9
P/E Ratio	11.7	12.8	10.0
Yield	3.3	3.4	4.0
EPS Growth - 5 Yrs.	10.7	11.6	11.3
Price to Book	2.2	2.4	2.3

Sector Allocation (%) vs MSCI ACWI ex USA



Top 10 Holdings	
TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	1.6%
ASML HOLDING NV	1.2%
SAMSUNG ELECTRONICS CO LTD	1.1%
TENCENT HOLDINGS LTD	1.1%
ALIBABA GROUP HOLDING LTD	1.0%
RELIANCE INDUSTRIES LTD	0.8%
FERRARI NV	0.7%
GENMAB A/S	0.7%
DEUTSCHE POST AG	0.7%
KERING	0.7%
Total	9.6%



International Equity | As of December 31, 2022

Total International Equity Region Allocation						
vs MSCI ACWI ex USA						
Region	% of Total	% of Bench	% Diff			
North America ex U.S.	0.3%	7.7%	-7.4%			
United States	4.4%	0.0%	4.4%			
Europe Ex U.K.	30.2%	31.7%	-1.5%			
United Kingdom	9.2%	9.8%	-0.6%			
Pacific Basin Ex Japan	7.2%	8.1%	-0.9%			
Japan	16.3%	14.0%	2.3%			
Emerging Markets	30.4%	28.0%	2.4%			
Other	2.0%	0.7%	1.3%			
Total	100.0%	100.0%	0.0%			

Fixed Income

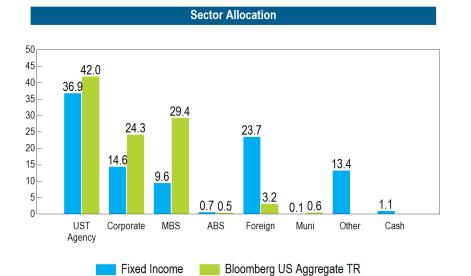
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Austin Fire Fighters Relief and Retirement Fund

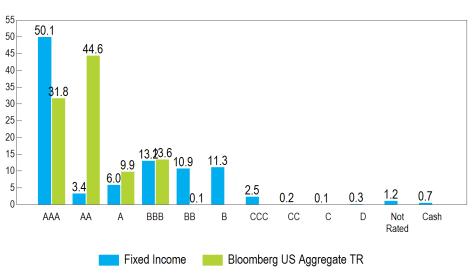
Fixed Income | As of December 31, 2022

Asset Allocation on December 31, 2022					
	Actual	Actual			
SSgA Bond Fund	\$83,265,768	26.8%			
Loomis Sayles Core Plus Fixed Income	\$53,124,477	17.1%			
Aberdeen Emerging Markets Bond Fund	\$65,367,498	21.0%			
SSgA TIPS	\$54,551,729	17.6%			
Pyramis Tactical Bond Fund	\$34,396,829	11.1%			
Pacific Asset Management Bank Loans	\$20,038,223	6.4%			
Total	\$310,744,524	100.0%			

Total Fixed Income Characteristics							
vs. Bloomberg US Aggregate TR							
Portfolio Index Portfo							
	Q4-22	Q4-22	Q3-22				
Fixed Income Characteristics							
Yield to Maturity	6.6	4.6	7.2				
Average Duration	5.8	6.2	5.6				
Average Quality	А	AA	А				
Weighted Average Maturity9.08.49.1							

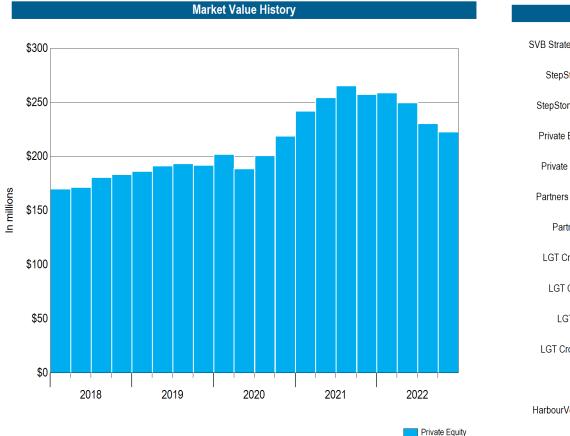


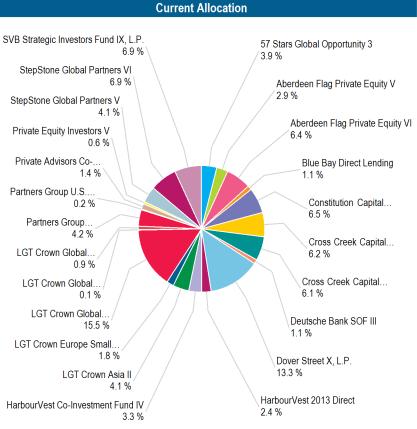
Credit Quality Allocation





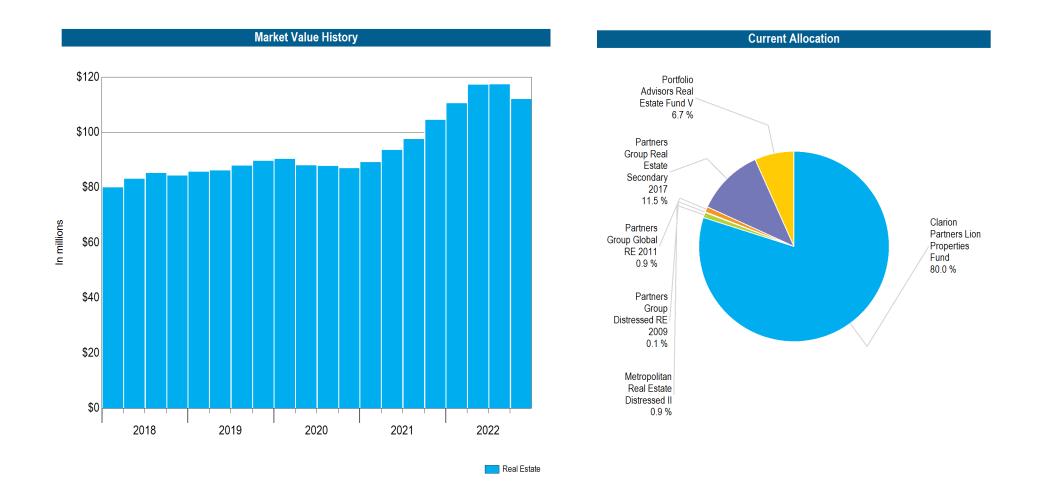
Private Equity | As of December 31, 2022





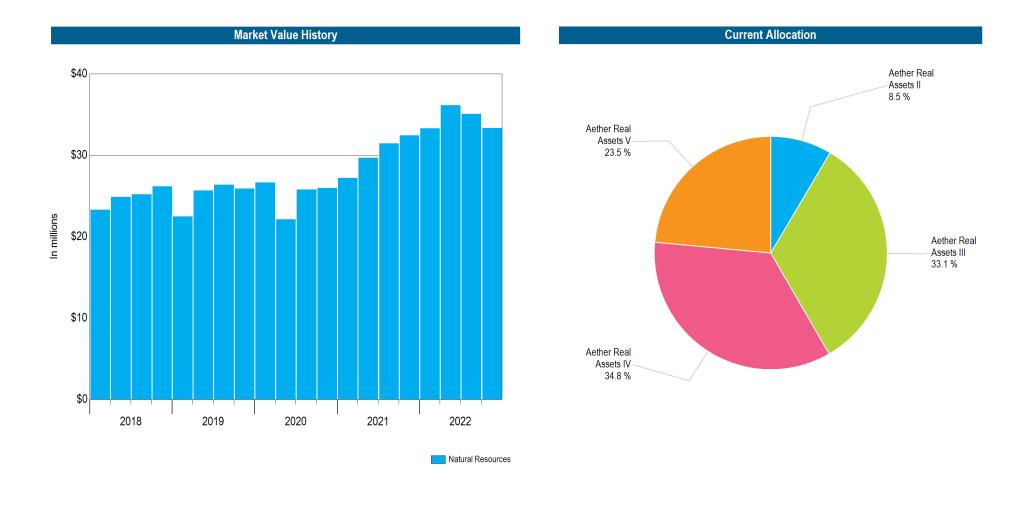


Real Estate | As of December 31, 2022





Natural Resources | As of December 31, 2022



Private Equity Assets

MEKETA

Austin Fire Fighters Relief and Retirement Fund

Private Equity Assets

Partnership	Focus	Туре	Vintage Year
Partners Group Distressed Private Equity 2009	Special Situations	Fund of Funds	2009
LGT Crown Global Secondaries II	Secondary Market	Fund of Funds	2009
Private Equity Investors V	Secondary Market	Fund of Funds	2009
Cross Creek Capital Partners II - B	Venture	Fund of Funds	2010
LGT Crown Asia II	Buyout	Fund of Funds	2011
StepStone Global Partners V	Venture	Fund of Funds	2011
57 Stars Global Opportunity 3	Diversified	Fund of Funds	2011
LGT Crown Europe Small Buyouts III	Buyout	Fund of Funds	2012
LGT Crown Global Secondaries III	Secondary Market	Fund of Funds	2012
Private Advisors Co-Investment Fund III	Co-investments	Fund of Funds	2013
HarbourVest 2013 Direct	Co-investments	Fund of Funds	2013
Cross Creek Capital Partners III	Venture	Fund of Funds	2013
Flag Private Equity V	Buyout	Fund of Funds	2012
StepStone Global Partners VI	Venture	Fund of Funds	2013
Constitution Capital Partners Ironsides III	Buyout	Fund of Funds	2014
Deutsche Bank Secondary Opportunities Fund III	Secondary Market	Fund of Funds	2014
Flag Private Equity VI	Buyout	Fund of Funds	2015
Blue Bay Direct Lending Fund II	Private Debt	Direct Fund	2015
Partners Group Emerging Markets 2015	Special Situations	Fund of Funds	2015
LGT Crown Global Opportunities VI	Diversified	Fund of Funds	2016
HarbourVest Co-Investment Fund IV	Co-investments	Fund of Funds	2017
SVB Strategic Investors Fund IX	Venture	Fund of Funds	2018
Dover Street X	Secondary Market	Fund of Funds	2020



Private Equity Assets

Partnership	Committed (\$mm)	Called (\$mm)	Distributed (\$mm)	Fair Value (\$mm)	nIRR ^ı (%)	Vintage Year	TVPI Multiple
Partners Group Distressed Private Equity 2009	7.0	6.2	8.7	0.4	10.3	2009	1.5x
LGT Crown Global Secondaries II ²	3.0	2.5	4.2	0.2	17.7	2009	1.8×
Private Equity Investors V	3.0	3.0	1.4	1.2	-1.44	2009	0.9×
Cross Creek Capital Partners II – B	12.5	11.7	26.8	13.8	20.3	2010	3.5×
LGT Crown Asia II ³	10.0	9.5	10.4	9.2	12.4	2011	2.1x
StepStone Global Partners V	7.5	6.8	17.8	9.2	24.8	2011	4.0x
57 Stars Global Opportunity 3	10.0	10.4	5.5	8.6	5.3	2011	1.4x
LGT Crown Europe Small Buyouts III ³	8.4	7.7	10.2	4.0	16.1	2012	1.8×
LGT Crown Global Secondaries II ³	10.0	7.6	9.6	2.1	12.0	2012	1.5×
Private Advisors Co-Investment Fund III	10.0	10.6	15.9	3.2	12.8	2013	1.8x
HarbourVest 2013 Direct	10.0	9.7	15.6	5.3	18.5	2013	2.2x
Cross Creek Capital Partners III	7.5	6.9	8.3	13.7	23.7	2013	3.2x
Aberdeen Flag Private Equity V	10.0	10.0	13.2	6.4	17.2	2012	2.0x
StepStone Global Partners VI	7.5	6.8	10.1	15.3	24.4	2013	3.7x
Constitution Capital Partners Ironsides III	15.0	17.6	25.5	14.5	27.6 ⁵ 20.8 ⁶	2014	2.3x
Deutsche Bank Secondary Opportunities Fund III	10.0	8.8	10.3	2.5	12.5	2014	1.5x
Aberdeen Flag Private Equity VI	15.0	14.0	15.8	14.3	21.8	2015	2.2x
Blue Bay Direct Lending Fund II	20.0	19.4	21.4	2.5	7.4	2015	1.2x
Partners Group Emerging Markets 2015	10.0	8.8	4.2	9.4	8.9	2015	1.5x
LGT Crown Global Opportunities VI ³	40.0	33.1	21.8	34.6	15.6	2016	1.7×
HarbourVest Co-Investment Fund IV	10.0	8.1	7.9	7.4	17.1	2017	1.9×
SVB Strategic Investors Fund IX	10.0	8.4	0.0	15.3	30.2	2018	1.8×
Dover Street X	40.0	25.3	8.8	29.7	47.2	2020	1.5x
Total	286.6	252.9	273.4	222.7			2.0x

¹ All performance figures are reported directly from managers, net of fees, as of 9/30/2022, unless otherwise noted.

² Performance and market value is as of 11/30/2022.

³Performance and market value is as of 12/31/2022

⁴Net IRR is as of 6/30/2022

 $^{^{\}rm 5}$ Constitution Capital Ironsides Partnership Fund III, as of 9/30/2022.

⁶ Constitution Capital Ironsides Co-Investment Fund III, as of 9/30/2022.

Real Estate Assets



Closed-Ends Funds

Partnership	Focus	Туре	Vintage Year	TVPI Multiple
Partners Group U.S. Distressed 2009	U.S. Distressed	Fund of Funds	2009	1.4×
Metropolitan Real Estate Distressed II	Real Estate Debt	Fund of Funds	2009	1.3x
Partners Group Global RE 2011	Global	Fund of Funds	2011	1.4×
Portfolio Advisors Global Real Estate V	Global	Fund of Funds	2015	1.2x
Partners Group RE Secondary 2017	Global	Fund of Funds	2017	1.4×
				1.3x

Partnership	Committed (mm)	Called (mm)	Distributed (mm)	Fair Value (mm)	nIRR' (%)
Partners Group U.S. Distressed 2009	\$12.0	\$11.2	\$15.1	0.1	7.0
Metropolitan Real Estate Distressed II	\$12.0	\$11.3	\$13.6	1.1	8.0 ²
Partners Group Global RE 2011	\$6.7	\$5.4	\$6.4	1.0	6.4
Portfolio Advisors Global Real Estate V	\$15.0	\$14.6	\$10.0	7.5	7.4
Partners Group RE Secondary 2017	\$15.0	\$9.0	\$0.2	12.9	12.3
Total	\$60.7	\$51.5	\$45.3	\$22.6	

¹ Performance figures are reported directly from manager, net of fees, as of 9/30/2022.

² Net IRR is lagged as of 6/30/2022

Natural Resources Assets

Austin Fire Fighters Relief and Retirement Fund

Natural Resources Assets

Partnership	Vintage Year	Committed (mm)	Called (mm)	Distributed (mm)	Fair Value (mm)	Net IRR [,] %	TVPI Multiple ²
Aether Real Assets II	2012	\$7.5	\$7.7	\$4.2	\$2.9	-1.6	0.9x
Aether Real Assets III	2013	\$15.0	\$15.5	\$3.4	\$11.1	-0.6	1.0×
Aether Real Assets IV	2016	\$10.0	\$10.0	\$1.1	\$11.6	6.8	1.3x
Aether Real Assets V	2018	\$10.0	\$5.8	\$0.5	\$7.8	19.7	1.3x
Total		\$42.5	\$39.0	\$9.8	\$33.4		1.1x

¹ Performance figures are reported directly from manager, net of fees, as of 9/30/2022.

Portfolio Reviews

Austin Fire Fighters Relief and Retirement Fund

Westwood Capital Large Cap Value | As of December 31, 2022

Account Information				
Account Name	Westwood Capital Large Cap Value			
Account Structure	Separate Account			
Investment Style	Active			
Inception Date	10/01/01			
Account Type	US Equity			
Benchmark	Russell 1000 Value			
Universe	eV US Large Cap Value Equity Net			

Portfolio Performance Summary								
	QTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs 1 (%)	0 Yrs (%)	S.I. (%)	S.I. Date
Westwood Capital Large Cap Value	11.2	-5.9	-5.9	6.6	7.8	10.9	8.6	Oct-01
Russell 1000 Value	12.4	-7.5	-7.5	6.0	6.7	10.3	7.8	Oct-01
eV US Large Cap Value Equity Net Median	12.7	-5.7	-5.7	7.4	7.5	10.7	8.4	Oct-01
eV US Large Cap Value Equity Net Rank	78	52	52	64	47	46	40	Oct-01

Top 10 Holdings	
JPMORGAN CHASE & CO	3.7%
JOHNSON & JOHNSON	3.5%
DANAHER CORP	3.1%
MICROSOFT CORP	3.1%
BANK OF AMERICA CORP	2.9%
BECTON DICKINSON AND CO	2.7%
CHEVRON CORP	2.6%
WEC ENERGY GROUP INC	2.6%
MICROCHIP TECHNOLOGY INC	2.6%
CASH - USD	2.6%
Total	29.5%

Westwood Capital Large Cap Value Characteristics							
	Portfolio	Index	Portfolic				
	Q4-22	Q4-22	Q3-22				
Market Value							
Market Value (\$M)	30.1		27.0				
Number Of Holdings	46	852	47				
Characteristics							
Weighted Avg. Market Cap. (\$B)	236.9	152.3	220.9				
Median Market Cap (\$B)	104.1	11.9	89.8				
P/E Ratio	18.7	15.6	15.5				
Yield	2.1	2.3	2.4				
EPS Growth - 5 Yrs.	13.2	12.6	13.0				
Price to Book	2.9	2.5	2.9				
Sector Distribution							
Energy	8.5	7.6	8.2				
Materials	0.0	4.4	0.0				
Industrials	13.2	10.7	13.0				
Consumer Discretionary	6.7	5.8	6.3				
Consumer Staples	8.3	7.4	5.9				
Health Care	17.4	17.6	16.				
Financials	18.5	20.4	19.9				
Information Technology	10.3	8.4	9.4				
Communication Services	2.2	7.4	6.				
Utilities	6.6	5.9	5.9				
Real Estate	5.6	4.5	4.9				

Austin Fire Fighters Relief and Retirement Fund

Westfield Small/Mid Cap Growth | As of December 31, 2022

Account Information					
Account Name	Westfield Small/Mid Cap Growth				
Account Structure	Separate Account				
Investment Style	Active				
Inception Date	11/01/02				
Account Type	US Equity				
Benchmark	Russell 2500 Growth				
Universe	eV US Small-Mid Cap Growth Equity Net				

Portfolio Performance Summary								
	QTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs 1 (%)	0 Yrs (%)	S.I. (%)	S.I. Date
Westfield Small/Mid Cap Growth	6.5	-23.4	-23.4	6.1	8.3	11.1	12.0	Nov-02
Russell 2500 Growth	4.7	-26.2	-26.2	2.9	6.0	10.6	10.6	Nov-02
eV US Small-Mid Cap Growth Equity Net Median	4.7	-28.1	-28.1	5.2	7.9	10.9	10.8	Nov-02
eV US Small-Mid Cap Growth Equity Net Rank	28	25	25	41	42	46	19	Nov-02

Top 10 Holdings	
DIAMONDBACK ENERGY INC	2.8%
ASCENDIS PHARMA AS	2.5%
FIVE BELOW INC	2.5%
ICON PLC	2.4%
DECKERS OUTDOOR CORP	2.3%
WILLSCOT MOBILE MINI HOLDINGS CORP	2.3%
ENCORE WIRE CORP	2.2%
SUN COMMUNITIES INC.	2.2%
IDEX CORP	2.1%
RED ROCK RESORTS INC	2.1%
Total	23.6%

Westfield Small	/Mid Cap Growt	h Characteristic	:S
	Portfolio	Index	Portfolic
	Q4-22	Q4-22	Q3-22
Market Value			
Market Value (\$M)	59.0		55.4
Number Of Holdings	66	1340	64
Characteristics			
Weighted Avg. Market Cap. (\$B)	9.8	6.0	9.5
Median Market Cap (\$B)	9.3	1.8	8.6
P/E Ratio	17.1	16.7	16.9
Yield	0.9	0.9	0.9
EPS Growth - 5 Yrs.	28.2	22.0	27.8
Price to Book	3.7	4.1	3.4
Sector Distribution			
Energy	4.9	6.2	4.6
Materials	4.1	5.2	4.
Industrials	17.0	18.5	21.2
Consumer Discretionary	15.3	12.2	13.6
Consumer Staples	0.0	4.0	0.0
Health Care	21.1	19.4	21.2
Financials	8.2	6.9	7.5
Information Technology	22.5	22.0	22.3
Communication Services	1.0	1.8	0.3
Utilities	0.0	1.3	0.0
Real Estate	3.3	2.6	4.5

Austin Fire Fighters Relief and Retirement Fund

Vaughan Nelson Small Cap Value | As of December 31, 2022

Account Information					
Account Name	Vaughan Nelson Small Cap Value				
Account Structure	Separate Account				
Investment Style	Active				
Inception Date	1/01/16				
Account Type	US Equity				
Benchmark	Russell 2000 Value				
Universe	eV US Small Cap Value Equity Net				

Portfolio Performance Summary								
	QTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs 1 (%)	0 Yrs (%)	S.I. (%)	S.I. Date
Vaughan Nelson Small Cap Value	8.0	-9.8	-9.8	9.0	6.8		8.7	Jan-16
Russell 2000 Value	8.4	-14.5	-14.5	4.7	4.1	8.5	8.2	Jan-16
eV US Small Cap Value Equity Net Median	10.8	-11.7	-11.7	6.4	4.6	9.2	8.5	Jan-16
eV US Small Cap Value Equity Net Rank	84	34	34	21	22		45	Jan-16

Top 10 Holdings				
INSIGHT ENTERPRISES INC	3.9%			
ELEMENT SOLUTIONS INC	3.6%			
GATX CORP.	2.8%			
RAMBUS INC	2.7%			
WNS (HOLDINGS) LTD	2.6%			
FABRINET	2.6%			
ASGN INC	2.2%			
PERFORMANCE FOOD GROUP COMPANY	2.1%			
FRANKLIN ELECTRIC CO INC	2.0%			
INTERNATIONAL GAME TECHNOLOGY PLC	2.0%			
Total	26.6%			

Vaughan Nelso	n Small Cap Va	alue Character	istics
	Portfolio	Index	Portfolic
	Q4-22	Q4-22	Q3-22
Market Value			
Market Value (\$M)	61.4		56.7
Number Of Holdings	67	1383	62
Characteristics			
Weighted Avg. Market Cap. (\$B)	4.8	2.4	4.8
Median Market Cap (\$B)	4.1	0.9	3.9
P/E Ratio	13.8	10.5	14.2
Yield	1.9	2.3	1.9
EPS Growth - 5 Yrs.	19.1	13.3	17.8
Price to Book	2.3	1.6	2.3
Sector Distribution			
Energy	4.5	6.3	5.4
Materials	7.5	4.0	7.2
Industrials	28.3	13.3	31.
Consumer Discretionary	8.2	9.8	7.
Consumer Staples	2.6	2.7	2.3
Health Care	3.5	10.5	2.9
Financials	16.4	28.9	16.8
Information Technology	20.1	5.6	20.3
Communication Services	0.4	2.8	0.0
Utilities	3.4	5.3	3.4
Real Estate	3.5	10.7	0.0

Austin Fire Fighters Relief and Retirement Fund

SSgA S&P 500 | As of December 31, 2022

Q4-22Market ValueMarket Value (\$M)69.0Number Of Holdings504CharacteristicsWeighted Avg. Market414.5Cap. (\$B)29.6Median Market Cap (\$B)29.6P/E Ratio19.3Yield1.8EPS Growth - 5 Yrs.16.9Price to Book3.9Sector Distribution2.7Energy5.1Materials2.7ndustrials8.4Consumer9.5Discretionary7.1Health Care15.5Financials11.4Information Technology25.2Communication Services7.1Utilities3.0	SS	gA S&P 500 Ch	aracteri <u>st</u> i
arket Valuearket Value (\$M)69.0amber Of Holdings5045maracteristicseighted Avg. Market414.541ap. (\$B)29.622edian Market Cap29.622B)29.622E Ratio19.311eld1.821S Growth - 5 Yrs.16.91ide to Book3.93ector Distribution27ergy5.13aterials2.7dustrials8.4onsumer9.511scretionary9.511ormation Technology25.22ormation Technology25.22ormation Technology7.1ilities3.03.0		Portfolio	Inc
Market Value (\$M)69.0Number Of Holdings504500Characteristics414.5415.Weighted Avg. Market Cap. (\$B)414.5415.Median Market Cap (\$B)29.629.P/E Ratio19.319.P/E Ratio19.319.Yield1.81EPS Growth - 5 Yrs.16.916Price to Book3.93Sector Distribution5.15Energy5.15Materials2.72ndustrials8.48Consumer Discretionary9.510.Consumer Staples7.17Financials11.412.nformation Technology25.225Communication Services7.17Juilities3.03		Q4-22	Q4-2
Number Of Holdings504503CharacteristicsWeighted Avg. Market Cap. (\$B)414.5415.6Median Market Cap (\$B)29.629.6P/E Ratio19.319.3P/E Ratio19.319.3Yield1.81.EPS Growth - 5 Yrs.16.916.4Price to Book3.93.3Sector Distribution5.15Energy5.15Materials2.72.2ndustrials8.48.4Consumer Discretionary9.510.6Consumer Staples7.17.4Health Care15.515.4Financials11.412.0nformation Technology25.225.3Communication Services7.17.4Jtilities3.03.0	Market Value		
CharacteristicsWeighted Avg. Market Cap. (\$B)414.5415.6Median Market Cap (\$B)29.629.6P/E Ratio19.319.5P/E Ratio19.319.5Yield1.81.7EPS Growth - 5 Yrs.16.916.8Price to Book3.93.9Sector Distribution5.15.7Energy5.15.7Materials2.72.7ndustrials8.48.6Consumer Discretionary9.510.0Consumer Staples7.17.8Health Care15.515.4Financials11.412.0nformation Technology25.225.3Communication Services7.17.5Utilities3.03.0	Market Value (\$M)	69.0	
Weighted Avg. Market Cap. (\$B) 414.5 415.6 Median Market Cap (\$B) 29.6 29.6 29.6 P/E Ratio 19.3 19.5 19.5 Yield 1.8 1.7 1.8 1.7 EPS Growth - 5 Yrs. 16.9 16.8 1.7 EPS Growth - 5 Yrs. 16.9 16.8 3.9 3.9 Sector Distribution 3.9 3.9 3.9 Sector Distribution 2.7 2.7 2.7 Idustrials 8.4 8.6 3.6 Consumer 9.5 10.0 0 Discretionary 9.5 10.0 0 Consumer Staples 7.1 7.8 14.4 12.0 Information Technology 25.2 25.3	Number Of Holdings	504	503
Cap. (\$B) 414.5 415.6 Median Market Cap (\$B) 29.6 29.6 P/E Ratio 19.3 19.5 P/E Ratio 19.3 19.5 Yield 1.8 1.7 EPS Growth - 5 Yrs. 16.9 16.8 Price to Book 3.9 3.9 Sector Distribution 2.7 2.7 Materials 2.7 2.7 ndustrials 8.4 8.6 Consumer 9.5 10.0 Discretionary 7.1 7.8 Health Care 15.5 15.4 Financials 11.4 12.0 nformation Technology 25.2 25.3 Communication 7.1 7.5 Services 3.0 3.0	Characteristics		
29.6 29.6 29.6 P/E Ratio 19.3 19.5 Yield 1.8 1.7 EPS Growth - 5 Yrs. 16.9 16.8 Price to Book 3.9 3.9 Sector Distribution 3.9 3.9 Sector Distribution 2.7 2.7 Materials 8.4 8.6 Consumer 9.5 10.0 Discretionary 7.1 7.8 Health Care 15.5 15.4 Financials 11.4 12.0 nformation Technology 25.2 25.3 Communication 7.1 7.5 Julilities 3.0 3.0	Weighted Avg. Market Cap. (\$B)	414.5	415.6
Yield1.81.7EPS Growth - 5 Yrs.16.916.8Price to Book3.93.9Sector Distribution5.15.1Energy5.15.1Materials2.72.7ndustrials8.48.6Consumer9.510.0Discretionary7.17.8Health Care15.515.4Financials11.412.0nformation Technology25.225.3Communication7.17.5Services3.03.0	Median Market Cap (\$B)	29.6	29.6
EPS Growth - 5 Yrs.16.916.8Price to Book3.93.9Sector Distribution5.15.1Energy5.15.1Materials2.72.7ndustrials8.48.6Consumer9.510.0Discretionary7.17.8Health Care15.515.4Financials11.412.0nformation Technology25.225.3Communication7.17.5Services3.03.0	P/E Ratio	19.3	19.5
Price to Book 3.9 3.9 Sector Distribution Energy 5.1 5.1 Materials 2.7 2.7 Industrials 8.4 8.6 Consumer 9.5 10.0 Discretionary 9.5 10.0 Consumer Staples 7.1 7.8 Health Care 15.5 15.4 Financials 11.4 12.0 Information Technology 25.2 25.3 Communication 7.1 7.5 Services 3.0 3.0	Yield	1.8	1.7
Sector Distribution Energy 5.1 5.1 Materials 2.7 2.7 ndustrials 8.4 8.6 Consumer 0.5 Discretionary 0.5 10.0 Discretionary 0.5 10.0 Consumer Staples 7.1 7.8 Health Care 15.5 15.4 Financials 11.4 12.0 nformation Technology 25.2 25.3 Communication 7.1 7.5 Services 3.0 3.0	EPS Growth - 5 Yrs.	16.9	16.8
Energy5.15.1Materials2.72.7ndustrials8.48.6Consumer9.510.0Discretionary7.17.8Health Care15.515.4Financials11.412.0nformation Technology25.225.3Communication Services7.17.5Jtilities3.03.0	Price to Book	3.9	3.9
Materials2.72.7ndustrials8.48.6Consumer Discretionary9.510.0Consumer Staples7.17.8Health Care15.515.4Financials11.412.0nformation Technology25.225.3Communication Services7.17.5Jtilities3.03.0	Sector Distribution		
ndustrials 8.4 8.6 Consumer Discretionary 9.5 10.0 Consumer Staples 7.1 7.8 Health Care 15.5 15.4 Financials 11.4 12.0 nformation Technology 25.2 25.3 Communication 7.1 7.5 Services 3.0 3.0	Energy	5.1	5.1
Consumer Discretionary9.510.0Discretionary9.510.0Consumer Staples7.17.8Health Care15.515.4Financials11.412.0nformation Technology25.225.3Communication Services7.17.5Jtilities3.03.0	Materials	2.7	2.7
9.510.0Consumer Staples7.17.8Health Care15.515.4Financials11.412.0nformation Technology25.225.3Communication Services7.17.5Jtilities3.03.0	Industrials	8.4	8.6
Health Care15.515.4Financials11.412.0nformation Technology25.225.3Communication Services7.17.5Jtilities3.03.0	Consumer Discretionary	9.5	10.0
Financials11.412.0nformation Technology25.225.3Communication7.17.5Services3.03.0	Consumer Staples	7.1	7.8
nformation Technology 25.2 25.3 Communication 7.1 7.5 Services 3.0 3.0	Health Care	15.5	15.4
Communication 7.1 7.5 Services 3.0 3.0	Financials	11.4	12.0
Services 7.1 7.5 Jtilities 3.0 3.0	Information Technology	25.2	25.3
	Communication Services	7.1	7.5
Real Estate 2.6 2.6	Utilities	3.0	3.0
	Real Estate	2.6	2.6

Accoun	t Information
Account Name	SSgA S&P 500
Account Structure	Commingled Fund
Investment Style	Passive
Inception Date	2/01/04
Account Type	US Equity
Benchmark	S&P 500
Universe	eV US Large Cap Equity Net

Portfolio Performance Summary								
	QTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
SSgA S&P 500	7.6	-18.1	-18.1	7.6	9.4	12.5	8.8	Feb-04
S&P 500	7.6	-18.1	-18.1	7.7	9.4	12.6	8.8	Feb-04
eV US Large Cap Equity Net Median	9.5	-15.4	-15.4	7.0	8.4	11.5	8.7	Feb-04
eV US Large Cap Equity Net Rank	65	61	61	38	32	25	48	Feb-04

Top 10 Holdings	
APPLE INC	5.9%
MICROSOFT CORP	5.5%
AMAZON.COM INC	2.3%
BERKSHIRE HATHAWAY INC	1.7%
ALPHABET INC	1.6%
UNITEDHEALTH GROUP INC	1.5%
ALPHABET INC	1.4%
JOHNSON & JOHNSON	1.4%
EXXON MOBIL CORP	1.4%
JPMORGAN CHASE & CO	1.2%
Total	23.9%

Austin Fire Fighters Relief and Retirement Fund

Baillie Gifford International Growth Fund | As of December 31, 2022

Account Information				
Account Name	Baillie Gifford International Growth Fund			
Account Structure	Mutual Fund			
Investment Style	Active			
Inception Date	5/01/09			
Account Type	Non-US Stock Developed			
Benchmark	MSCI ACWI ex USA			
Universe	eV ACWI ex-US All Cap Growth Eq Net			

Portfolio Performance Summary							
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Baillie Gifford International Growth Fund	13.1	-34.4	-1.1	1.9	6.7	9.0	May-09
MSCI ACWI ex USA	14.3	-16.0	0.1	0.9	3.8	6.2	May-09
MSCI EAFE	17.3	-14.5	0.9	1.5	4.7	6.5	May-09
eV ACWI ex-US All Cap Growth Eq Net Median	12.7	-27.7	1.1	2.3	5.5	8.3	May-09
eV ACWI ex-US All Cap Growth Eq Net Rank	47	86	69	58	32	26	May-09

Top 10 Holdings				
ASML HOLDING NV	6.6%			
FERRARI NV	4.9%			
MERCADOLIBRE INC	4.8%			
GENMAB A/S	4.7%			
MEITUAN DIANPING USD0.00001 A B CLASS ISIN KYG596691041	4.6%			
KERING	4.5%			
TENCENT HOLDINGS LTD	4.1%			
ADYEN N.V	4.0%			
ARGEN-X SE	3.5%			
LOREAL SA	2.9%			
Total	44.5%			

Baillie	Gifford EAFE Fur	nd Characteristi	cs
	Portfolio	Index	Portfolio
	Q4-22	Q4-22	Q3-22
Market Value			
Market Value (\$M)	28.9		25.6
Number Of Holdings	55	796	54
Characteristics			
Weighted Avg. Market Cap. (\$B)	86.8	78.1	72.9
Median Market Cap (\$B)	19.5	11.8	19.4
P/E Ratio	28.2	13.7	26.2
Yield	0.8	3.4	0.9
EPS Growth - 5 Yrs.	16.8	9.9	17.1
Price to Book	5.4	2.4	5.1
Sector Distribution			
Energy	0.0	5.0	0.0
Materials	3.3	7.8	2.7
Industrials	9.3	15.1	7.7
Consumer Discretionary	27.9	11.1	28.8
Consumer Staples	5.4	10.5	5.4
Health Care	14.6	13.6	14.4
Financials	8.5	18.7	9.4
Information Technology	20.5	7.8	21.0
Communication Services	8.6	4.5	8.9
Utilities	0.0	3.5	0.0
Real Estate	0.0	2.6	0.0

Austin Fire Fighters Relief and Retirement Fund

Sanderson International Value | As of December 31, 2022

			5
	Portfolio	Index	Portfoli
	Q4-22	Q4-22	Q3-2
Market Value			
Market Value (\$M)	44.8		37
Number Of Holdings	53	796	5
Characteristics			
Weighted Avg. Market Cap. (\$B)	60.3	78.1	51
Median Market Cap (\$B)	17.9	11.8	17
P/E Ratio	11.2	13.7	9
Yield	3.3	3.4	
EPS Growth - 5 Yrs.	8.4	9.9	10
Price to Book	1.7	2.4	1
Sector Distribution			
Energy	1.6	5.0	
Materials	8.0	7.8	6
Industrials	23.8	15.1	19
Consumer Discretionary	11.1	11.1	10
Consumer Staples	4.8	10.5	11
Health Care	5.6	13.6	8
Financials	17.1	18.7	2
Information Technology	10.3	7.8	10
Communication Services	8.2	4.5	9
Utilities	0.0	3.5	0
Real Estate	0.0	2.6	0

Account Information

Account Name Sanderson Internati	onal Value
Account Structure Commit	ngled Fund
Investment Style	Active
Inception Date	2/01/13
Account Type Non-US Stock	Developed
Benchmark MSCI E	AFE Value
Universe eV EAFE All Cap	Value Net

Portfolio Performance Summary							
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Sanderson International Value	19.0	-15.7	-2.8	-2.0		3.0	Feb-13
MSCI EAFE Value	19.6	-5.6	0.6	0.2	3.5	2.9	Feb-13
MSCI EAFE	17.3	-14.5	0.9	1.5	4.7	4.2	Feb-13
eV EAFE All Cap Value Net Median	18.5	-8.4	1.4	1.0	4.4	4.2	Feb-13
eV EAFE All Cap Value Net Rank	43	94	99	99		74	Feb-13

Top 10 Holdings	
MISCELLANEOUS SECURITIES	7.4%
SAMSUNG ELECTRONICS CO LTD	3.5%
MELROSE INDUSTRIES PLC	3.0%
DEUTSCHE POST AG	3.0%
BRAMBLES LTD	2.9%
DAIMLER TRUCK HOLDING AG COMMON STOCK	2.8%
CRH PLC	2.8%
SHIN-ETSU CHEMICAL CO LTD	2.6%
IG GROUP HOLDINGS PLC	2.5%
MERCEDES-BENZ GROUP AG	2.4%
Total	32.9%

Austin Fire Fighters Relief and Retirement Fund

Highclere International Small Cap | As of December 31, 2022

Account InformationAccount NameHighclere International Small CapAccount StructureCommingled FundInvestment StyleActiveInception Date12/01/09Account TypeNon-US Stock DevelopedBenchmarkMSCI EAFE Small CapUniverseeV EAFE Small Cap Equity Net

Portfolio Performance Summary								
	QTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
		(-/		(- /				
Highclere International Small Cap MSCI EAFE Small Cap	17.0 <i>15.8</i>	-24.2 -21.4	-24.2 <i>-21.4</i>	-3.3 -0.9	-1.9 0.0	5.2 6.2	6.1 6.4	Dec-09 Dec-09
S&P FPAC Under USD2 Billion NR USD	15.0 14.8	-21.4 -21.5	-21.4 -21.5	-0.9 -1.2	-1.7	0.2 4.8	5.0	Dec-09 Dec-09
eV EAFE Small Cap Equity Net Median	16.5	-20.8	-20.8	-0.2	0.2	6.4	7.1	Dec-09
eV EAFE Small Cap Equity Net Rank	40	71	71	83	82	87	86	Dec-09

G-7 HOLDINGS MORINAGA MILK INDUSTRY CO LTD	1.2% 1.1%
	1 10/
	1.1%
SHIZUOKA FINANCIAL GROUP INC	1.0%
IWATANI	1.0%
AICA KOGYO CO LTD	1.0%
DFDS A/S COPENHAGEN	1.0%
MARR	1.0%
SAWAI GROUP HOLDINGS CO LTD C).9 %
MAYR-MELNHOF KARTON AG	0.9%
PRESTIGE INTL. C).9 %
Total 10).2%

Highclere Interr	national Small Ca	ap Characteristi	cs
	Portfolio	Index	Portfolic
	Q4-22	Q4-22	Q3-22
Market Value			
Market Value (\$M)	41.7		35.7
Number Of Holdings	183	2276	180
Characteristics			
Weighted Avg. Market Cap. (\$B)	1.3	2.6	1.0
Median Market Cap (\$B)	0.9	1.2	0.7
P/E Ratio	13.4	11.9	12.
Yield	3.7	3.4	4.7
EPS Growth - 5 Yrs.	6.7	8.6	8.
Price to Book	2.1	2.1	2.0
Sector Distribution			
Energy	1.3	2.9	0.9
Materials	7.5	9.5	6.0
Industrials	20.5	22.9	21.6
Consumer Discretionary	12.7	12.3	13.2
Consumer Staples	7.1	6.5	8.3
Health Care	9.3	6.8	8.
Financials	8.1	11.9	8.0
Information Technology	15.6	9.2	15.3
Communication Services	4.9	3.9	5.
Utilities	1.2	3.2	1.0
Real Estate	7.5	11.0	8.3

Austin Fire Fighters Relief and Retirement Fund

SSgA MSCI EAFE Fund | As of December 31, 2022

SSgA MSC	I EAFE Fund Cha	aracteristics	
	Portfolio	Index	Portfoli
	Q4-22	Q4-22	Q3-2
Market Value			
Market Value (\$M)	34.0		31.
Number Of Holdings	809	796	80
Characteristics			
Weighted Avg. Market Cap. (\$B)	78.6	78.1	68
Median Market Cap (\$B)	11.6	11.8	10
P/E Ratio	13.8	13.7	12
Yield	3.4	3.4	3
EPS Growth - 5 Yrs.	9.9	9.9	11
Price to Book	2.5	2.4	2
Sector Distribution			
Energy	4.8	5.0	5
Materials	7.6	7.8	7
Industrials	14.7	15.1	14
Consumer Discretionary	10.7	11.1	10
Consumer Staples	10.0	10.5	1
Health Care	13.1	13.6	14
Financials	17.9	18.7	17
Information Technology	7.6	7.8	7
Communication Services	4.4	4.5	4
Utilities	3.4	3.5	З
Real Estate	2.6	2.6	2

	Account Information
Account Name	SSgA MSCI EAFE Fund
Account Structure	Commingled Fund
Investment Style	Passive
Inception Date	2/01/13
Account Type	Non-US Stock Developed
Benchmark	MSCI EAFE
Universe	eV EAFE Core Equity Net

Portfolio Performance Summary								
	QTD	YTD	1 Yr	3 Yrs	5 Yrs 1	0 Yrs	S.I.	S.I.
	(%)	(%)	(%)	(%)	(%)	(%)	(%)	Date
SSgA MSCI EAFE Fund	17.3	-14.1	-14.1	1.2	1.8		4.4	Feb-13
MSCI EAFE	17.3	-14.5	-14.5	0.9	1.5	4.7	4.2	Feb-13
eV EAFE Core Equity Net Median	16.1	-16.9	-16.9	0.6	1.1	5.2	4.7	Feb-13
eV EAFE Core Equity Net Rank	27	28	28	43	34		63	Feb-13

Top 10 Holdings	
NESTLE SA, CHAM UND VEVEY	2.2%
ASML HOLDING NV	1.6%
NOVO NORDISK 'B'	1.6%
ROCHE HOLDING AG	1.5%
ASTRAZENECA PLC	1.5%
SHELL PLC	1.4%
LVMH MOET HENNESSY LOUIS VUITTON SE	1.4%
NOVARTIS AG	1.3%
BHP GROUP LTD	1.1%
TOTALENERGIES SE	1.1%
Total	14.7%

Account Information

DFA Emerging Markets Value
Mutual Fund
Active
12/01/09
Non-US Stock Emerging
MSCI Emerging Markets Value NR USD
eV Emg Mkts All Cap Value Equity Net

Portfoli	o Perfe	orman	ce Su	ımma	ry			
	QTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs 1 (%)	0 Yrs (%)	S.I. (%)	S.I. Date
DFA Emerging Markets Value	10.3	-10.7	-10.7	1.0	-0.1	1.7	2.2	Dec-09
MSCI Emerging Markets Value NR USD	9.8	-15.8	-15.8	-2.6	-1.6	0.1	1.4	Dec-09
MSCI Emerging Markets	9.7	-20.1	-20.1	-2.7	-1.4	1.4	2.5	Dec-09
eV Emg Mkts All Cap Value Equity Net Median	12.7	-16.0	-16.0	-0.6	-0.4	2.2	2.3	Dec-09
eV Emg Mkts All Cap Value Equity Net Rank	88	30	30	29	47	63	57	Dec-09

Top 10 Holdings	
RELIANCE INDUSTRIES LTD	3.4%
CHINA CONSTRUCTION BANK CORP	2.6%
PING AN INSURANCE GROUP	1.4%
SK HYNIX INC	1.2%
HON HAI PRECISION INDUSTRY CO LTD	1.2%
INDUSTRIAL AND COMMERCIAL BANK OF CHINA LIMITED	1.1%
AXIS BANK	1.1%
PETROLEO BRASILEIRO S.A PETROBRAS	0.9%
ALIBABA GROUP HOLDING LTD	0.9%
SAMSUNG ELECTRONICS CO LTD	0.9%
Total	14.8%

Austin Fire Fighters Relief and Retirement Fund

DFA Emerging Markets Value | As of December 31, 2022

DFA Emerging Markets Value Characteristics							
	Portfolio	Index	Portfolio				
	Q4-22	Q4-22	Q3-22				
Market Value							
Market Value (\$M)	32.2		29.2				
Number Of Holdings	3174	816	3228				
Characteristics							
Weighted Avg. Market Cap. (\$B)	30.2	53.7	29.9				
Median Market Cap (\$B)	0.5	6.2	0.4				
P/E Ratio	7.1	8.7	6.4				
Yield	5.8	5.1	6.5				
EPS Growth - 5 Yrs.	12.5	10.6	11.9				
Price to Book	1.6	1.9	1.6				
Sector Distribution							
Energy	10.2	7.8	10.4				
Materials	15.2	10.5	14.2				
Industrials	9.7	5.9	9.2				
Consumer Discretionary	8.5	12.1	8.1				
Consumer Staples	3.0	3.4	3.1				
Health Care	2.5	2.2	2.6				
Financials	30.4	31.6	29.6				
Information Technology	11.2	15.3	11.6				
Communication Services	2.8	4.7	2.9				
Utilities	1.5	3.7	1.7				
Real Estate	4.7	2.8	4.9				

Austin Fire Fighters Relief and Retirement Fund

TT Emerging Markets Equity | As of December 31, 2022

Acco	unt Information
Account Name	TT Emerging Markets Equity
Account Structure	Commingled Fund
Investment Style	Active
Inception Date	4/01/19
Account Type	Non-US Stock Emerging
Benchmark	MSCI Emerging Markets
Universe	eV Emg Mkts Equity Net

Portfolio Performance Summary								
	QTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs 1 (%)	0 Yrs (%)	S.I. (%)	S.I. Date
TT Emerging Markets Equity	8.2	-26.9	-26.9	-4.7			-1.6	Apr-19
MSCI Emerging Markets	9.7	-20.1	-20.1	-2.7	-1.4	1.4	-0.2	Apr-19
eV Emg Mkts Equity Net Median	10.3	-19.9	-19.9	-1.6	-0.7	2.1	1.1	Apr-19
eV Emg Mkts Equity Net Rank	75	86	86	88			87	Apr-19

Top 10 Holdings	
TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	8.5%
CASH - USD	4.7%
ALIBABA GROUP HOLDING LTD	4.4%
SAMSUNG ELECTRONICS CO LTD	3.6%
TENCENT HOLDINGS LTD	3.3%
360 DIGITECH INC	3.0%
EMAAR PROPERTIES	2.8%
KB FINANCIAL GROUP INC	2.7%
H D F C BANK LTD	2.7%
JD.COM INC	2.5%
Total	38.3%

TT Emerging Markets Equity Characteristics							
	Portfolio	Index	Portfolio				
	Q4-22	Q4-22	Q3-22				
Market Value							
Market Value (\$M)	28.3		26.1				
Number Of Holdings	86	1375	65				
Characteristics							
Weighted Avg. Market Cap. (\$B)	120.7	95.7	113.8				
Median Market Cap (\$B)	30.0	6.5	27.5				
P/E Ratio	12.6	11.4	9.0				
Yield	2.2	3.4	3.5				
EPS Growth - 5 Yrs.	13.9	14.6	12.4				
Price to Book	2.3	2.6	2.2				
Sector Distribution							
Energy	3.8	4.9	8.0				
Materials	7.9	8.9	5.0				
Industrials	4.2	6.1	2.5				
Consumer Discretionary	18.1	14.1	9.8				
Consumer Staples	2.7	6.4	4.2				
Health Care	4.9	4.1	2.1				
Financials	22.2	22.1	20.8				
Information Technology	21.2	18.6	17.3				
Communication Services	6.5	9.9	5.5				
Utilities	2.7	3.0	3.3				
Real Estate	2.8	1.9	2.6				

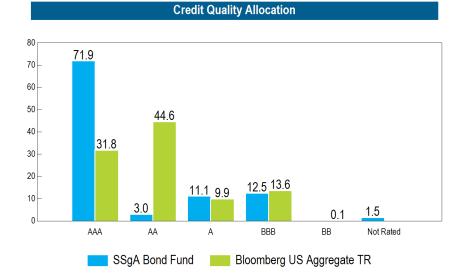
Austin Fire Fighters Relief and Retirement Fund

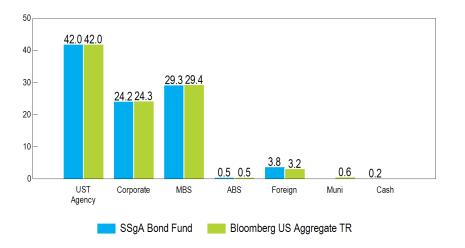
SSgA Bond Fund | As of December 31, 2022

Ac	count Information
Account Name	SSgA Bond Fund
Account Structure	Commingled Fund
Investment Style	Passive
Inception Date	1/01/04
Account Type	US Fixed Income Investment Grade
Benchmark	Bloomberg US Aggregate TR
Universe	eV US Core Fixed Inc Net

Portfolio Performance Summary							
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs 1 (%)	0 Yrs (%)	S.I. (%)	S.I. Date
SSgA Bond Fund	1.7	-13.2	-2.8	0.0	1.0	3.0	Jan-04
Bloomberg US Aggregate TR	1.9	-13.0	-2.7	0.0	1.1	3.0	Jan-04
eV US Core Fixed Inc Net Median	1.8	-13.1	-2.4	0.2	1.3	3.3	Jan-04
eV US Core Fixed Inc Net Rank	60	61	82	80	83	84	Jan-04

SSgA Bond Fund Characteristics vs. Bloomberg US Aggregate TR										
Portfolio Index Portfolio										
Q4-22 Q4-22 Q3-										
Fixed Income Characteristics										
Yield to Maturity	4.7	4.6	4.8							
Average Duration	6.2	6.2	6.2							
Average Quality	AA	AA	AA							
Weighted Average Maturity	8.6	8.4	8.6							





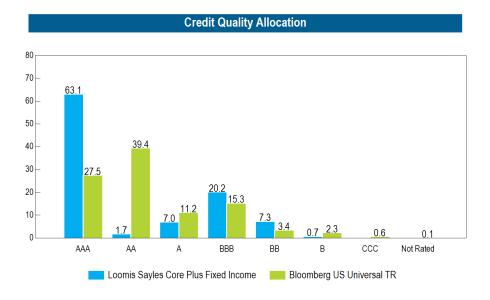
Austin Fire Fighters Relief and Retirement Fund

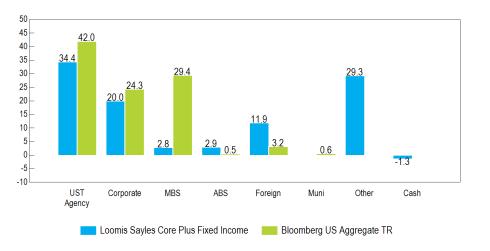
Loomis Sayles Core Plus Fixed Income | As of December 31, 2022

Ac	count Information
Account Name	Loomis Sayles Core Plus Fixed Income
Account Structure	Commingled Fund
Investment Style	Active
Inception Date	7/01/15
Account Type	US Fixed Income Investment Grade
Benchmark	Bloomberg US Aggregate TR
Universe	eV US Core Plus Fixed Inc Net

Portfolio Performance Summary							
	QTD	1 Yr	3 Yrs	5 Yrs	l0 Yrs	S.I.	S.I.
	(%)	(%)	(%)	(%)	(%)	(%)	Date
Loomis Sayles Core Plus Fixed Income	2.1	-12.7	-1.3	0.9		1.8	Jul-15
Bloomberg US Aggregate TR	1.9	-13.0	-2.7	0.0	1.1	0.9	Jul-15
eV US Core Plus Fixed Inc Net Median	2.0	-13.4	-2.1	0.4	1.7	1.5	Jul-15
eV US Core Plus Fixed Inc Net Rank	42	27	19	19		24	Jul-15

Loomis Sayles Core Plus Fixed Income Characteristics												
vs. Bloomberg l	JS Aggregate	TR										
	Portfolio Index Portfol											
	Q4-22	Q4-22	Q3-22									
Fixed Income Characteristics												
Yield to Maturity	5.4	4.6	6.3									
Average Duration	7.0	6.2	6.5									
Average Quality	BBB	AA	BBB									
Weighted Average Maturity	8.8	8.4	9.5									





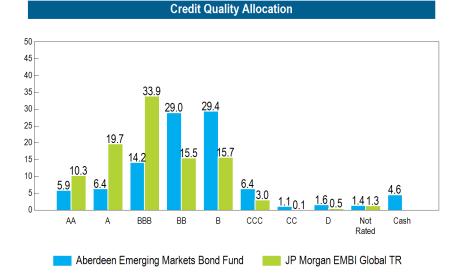
Austin Fire Fighters Relief and Retirement Fund

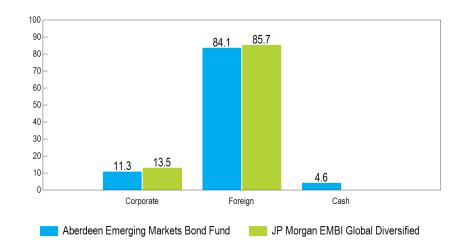
Aberdeen Emerging Markets Bond Fund | As of December 31, 2022

Account Information					
Account Name	Aberdeen Emerging Markets Bond Fund				
Account Structure	Commingled Fund				
Investment Style	Active				
Inception Date	12/01/14				
Account Type	International Emerging Market Debt				
Benchmark	JP Morgan EMBI Global Diversified				
Universe					

Portfolio Performance Summary							
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs 1 (%)	0 Yrs (%)	S.I. (%)	S.I. Date
Aberdeen Emerging Markets Bond Fund	10.2	-16.6	-5.6	-2.2	-	0.9	Dec-14
JP Morgan EMBI Global Diversified	8.1	-17.8	-5.3	-1.3	1.6	1.5	Dec-14
50% JPM EMBI GD, 25% JPM GBI EM GD, 25% CMBI Broad	7.3	-15.2	-4.8	-1.1	1.1	1.3	Dec-14

Aberdeen Emerging Markets Bond Fund Characteristics vs. JP Morgan EMBI Global TR								
Portfolio Index Portfoli								
	Q3-22	Q3-22	Q2-22					
Fixed Income Characteristics								
Yield to Maturity	12.7	8.0	10.7					
Average Duration	5.9	6.8	5.9					
Average Quality	BB	BBB	BB					
Weighted Average Maturity	11.1	12.0	10.8					





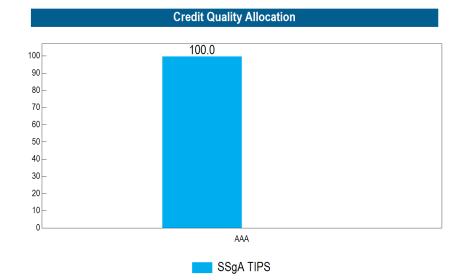
Austin Fire Fighters Relief and Retirement Fund

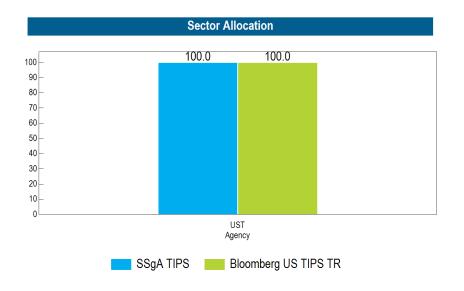
SSgA TIPS | As of December 31, 2022

Acc	ount Information
Account Name	SSgA TIPS
Account Structure	Commingled Fund
Investment Style	Passive
Inception Date	8/01/14
Account Type	US Inflation Protected Fixed
Benchmark	Bloomberg US TIPS TR
Universe	eV US TIPS / Inflation Fixed Inc Net

Portfolio Performance Summary								
	QTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs 1 (%)	0 Yrs (%)	S.I. (%)	S.I. Date
SSgA TIPS	1.8	-12.0	-12.0	1.1	2.0		1.6	Aug-14
Bloomberg US TIPS TR	2.0	-11.8	-11.8	1.2	2.1	1.1	1.7	Aug-14
eV US TIPS / Inflation Fixed Inc Net Median	2.0	-11.6	-11.6	1.2	2.2	1.1	1.7	Aug-14
eV US TIPS / Inflation Fixed Inc Net Rank	69	78	78	79	72		72	Aug-14

SSGA TIPS Characteristics								
vs. Bloomberg US TIPS TR								
	Portfolio	Index	Portfolio					
	Q4-22	Q4-22	Q3-22					
Fixed Income Characteristics								
Yield to Maturity	4.3	4.1	4.2					
Average Duration	5.4	6.6	5.9					
Average Quality	AAA	AA	AAA					
Weighted Average Maturity	7.1	7.1	7.3					





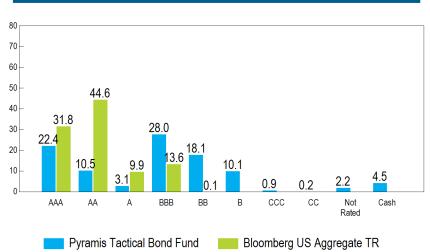
Austin Fire Fighters Relief and Retirement Fund

Pyramis Tactical Bond Fund | As of December 31, 2022

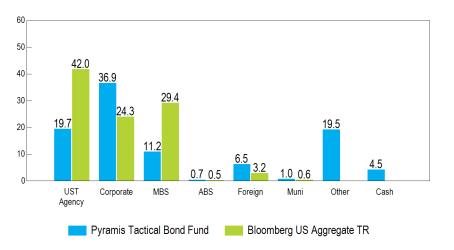
	Account Information
Account Name	Pyramis Tactical Bond Fund
Account Structure	Commingled Fund
Investment Style	Active
Inception Date	8/01/13
Account Type	US Fixed Income High Yield
Benchmark	Bloomberg US Aggregate TR
Universe	eV US Core Plus Fixed Inc Net

Portfolio Performance Summary								
	QTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Pyramis Tactical Bond Fund	2.7	-10.9	-10.9	-0.5	2.0		3.3	Aug-13
Bloomberg US Aggregate TR	1.9	-13.0	-13.0	-2.7	0.0	1.1	1.4	Aug-13
eV US Core Plus Fixed Inc Net Median	2.0	-13.4	-13.4	-2.1	0.4	1.7	2.0	Aug-13
eV US Core Plus Fixed Inc Net Rank	13	8	8	13	4		2	Aug-13

Pyramis Tactical Bond Fund Characteristics vs. Bloomberg US Aggregate TR								
	Portfolio	Index	Portfolio					
	Q4-22	Q4-22	Q3-22					
Fixed Income Characteristics								
Yield to Maturity	7.3	4.6	7.5					
Average Duration	5.4	6.2	5.1					
Average Quality	BBB	AA	BBB					
Weighted Average Maturity	13.2	8.4	11.7					



Credit Quality Allocation



Austin Fire Fighters Relief and Retirement Fund

Pacific Asset Management Bank Loans | As of December 31, 2022

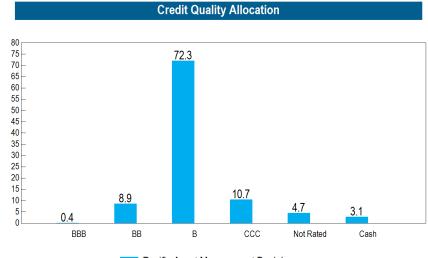
Account Information						
Account Name	Pacific Asset Management Bank Loans					
Account Structure	Commingled Fund					
Investment Style	Active					
Inception Date	12/01/19					
Account Type	US Fixed Income					
Benchmark	Credit Suisse Leveraged Loans					
Universe	Bank Loan MStar MF					

Portfolio Performance Summary								
	QTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	IO Yrs (%)	S.I. (%)	S.I. Date
Pacific Asset Management Bank Loans	2.8	-0.6	-0.6	2.4			2.6	Dec-19
Credit Suisse Leveraged Loans	2.3	-1.1	-1.1	2.3	3.2	3.8	2.8	Dec-19
Bank Loan MStar MF Median	2.6	-1.7	-1.7	1.4	2.4	3.1	1.9	Dec-19
Bank Loan MStar MF Rank	39	18	18	8			16	Dec-19

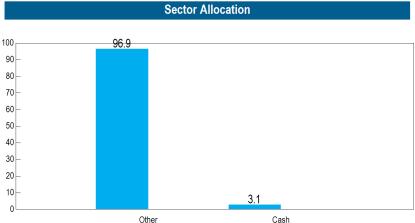
Pacific Asset Management Bank Loans Characteristics								
	Portfolio Portfo							
	Q4-22	Q3-22						
Fixed Income Characteristics								
Yield to Maturity	9.8	10.2						
Average Duration	0.3	0.4						
Average Quality	В	В						
Weighted Average Maturity	4.2	4.1						

Characteristics are not available for the Credit Suisse Leveraged Loan Index.

MEKETA INVESTMENT GROUP



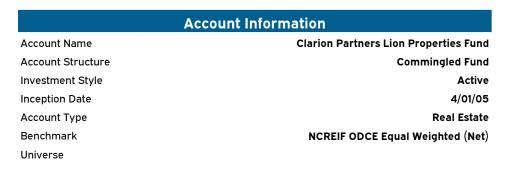
Pacific Asset Management Bank Loans

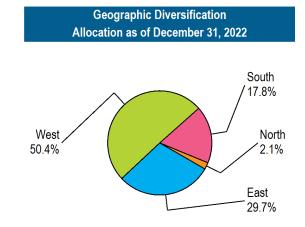


Pacific Asset Management Bank Loans



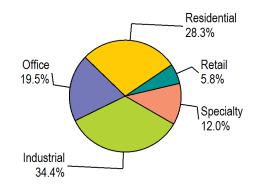
Clarion Partners Lion Properties Fund | As of December 31, 2022





Portfolio Performance Summary								
	QTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Clarion Partners Lion Properties Fund	-5.4	8.7	8.7	10.5	9.4	10.4	6.8	Apr-05
NCREIF ODCE Equal Weighted (Net)	-5.1	7.6	7.6	9.7	8.3	9.5	7.0	Apr-05







Fee Summary | As of December 31, 2022

Investment Expense Analysis									
	As Of December 31, 20	022							
Name	Market Value	% of Portfolio	Estimated Fee	Estimated Fee Value					
Westwood Capital Large Cap Value	\$30,054,402	4.1%	0.50%	\$150,272					
Westfield Small/Mid Cap Growth	\$59,026,001	8.0%	0.68%	\$401,377					
Vaughan Nelson Small Cap Value	\$61,382,721	8.3%	0.89%	\$547,870					
SSgA S&P 500	\$69,010,541	9.3%	0.01%	\$9,401					
Baillie Gifford International Growth Fund	\$28,945,644	3.9%	0.61%	\$176,568					
Sanderson International Value	\$44,774,719	6.0%	0.73%	\$328,536					
Highclere International Small Cap	\$41,739,584	5.6%	1.14%	\$475,766					
SSgA MSCI EAFE Fund	\$33,951,983	4.6%	0.06%	\$20,371					
DFA Emerging Markets Value	\$32,185,126	4.3%	0.38%	\$122,303					
TT Emerging Markets Equity	\$28,269,439	3.8%	0.80%	\$226,156					
SSgA Bond Fund	\$83,265,768	11.3%	0.03%	\$24,980					
Loomis Sayles Core Plus Fixed Income	\$53,124,477	7.2%	0.29%	\$152,811					
Aberdeen Emerging Markets Bond Fund	\$65,367,498	8.8%	0.45%	\$294,154					
SSgA TIPS	\$54,551,729	7.4%	0.03%	\$16,366					
Pyramis Tactical Bond Fund	\$34,396,829	4.6%	0.34%	\$116,949					
Pacific Asset Management Bank Loans	\$20,038,223	2.7%	0.41%	\$82,157					
Total	\$740,084,684	100.0%	0.43%	\$3,146,036					

Estimated fees are based off of public investments only and are calculated by multiplying manager fee schedules by each fund's market value as of the report date. Estimated fees do not take into consideration potential performance based fees, fund expenses or charges. Private market fees are reported annually in separate report.

Westfield has a performance based fee. The fee ranges from minimum of 0.20% to a maximum of 1.30% based on the relative performance over the trailing three years. Included here is the average actual fee paid over the past three years.

Public Manager Fee Benchmarking



Public Manager Fee Benchmarking

Overview

- → Investment management fees represent a significant component of a fund's expenses and should be monitored closely.
- → Meketa Investment Group continually seeks to negotiate and reduce management fees for its clients where possible.
- \rightarrow Typically, the biggest fee savings can be generated by using index funds in efficient asset classes.
- → The following page lists each active public investment manager and compares the fee Austin Fire pays vs. the median fee for similar investment strategies.



Public Manager Fee Benchmarking

Estimated Manager Fees – Active Managers

as of December 31, 2022¹

Account	Market Value As of 12/31/2022 (\$)	Asset Type	Estimated Annual Fee (%)	Estimated Annual Fee (\$)	Peer Ranking Percentile (%)	Peer Median Fee (%)
Westwood Capital Large Cap Value	30,054,402	Domestic Equity	0.50	150,272	25	0.57
Westfield Small/Mid Cap Growth	59,026,001	Domestic Equity	0.68	230,201	17	0.81
Vaughan Nelson Small Cap Value	61,382,721	Domestic Equity	0.89	547,870	69	0.83
Ballie Gifford Int'l Growth	28,945,644	Int'l Equity	0.61	176,568	8	0.85
Sanderson Int'I Value	44,774,719	Int'l Equity	0.73	328,536	30	0.75
Highclere Int'l Small Cap	41,739,584	Int'l Equity	1.14	475,766	93	0.90
DFA Emerging Markets Value	32,185,126	Int'l Equity	0.38	122,303	1	0.98
TT Emerging Markets Equity	28,269,439	Int'l Equity	0.80	226,156	40	0.85
Loomis Sayles Core Plus Bond	53,124,477	Fixed Income	029	152,811	26	0.30
Aberdeen Emerging Markets Bond	65,367,498	Fixed Income	0.45	294,154	11	0.60
Pyramis Tactical Bond	34,396,829	Fixed Income	0.34	116,949	56	0.32
Pacific Asset Mgmt. Bank Loans	20,038,223	Fixed Income	0.41	82,157	8	0.50

→ A peer ranking of 1 means lowest cost in peer group, a peer ranking of 99 means highest cost in peer group.

¹ Calculations were not reconciled with actual fees paid by the Pension Fund and will not match exactly. The table is for illustrative purposes only. Public market fees were calculated by multiplying manager fee schedule by market value as of December 31, 2022. Westfield has a performance based fee. The fee ranges from minimum of 0.20% to a maximum of 1.30% based on the relative performance over the trailing three years. Included here is the average actual fee paid over the past three years.



Public Manager Fee Benchmarking

Estimated Manager Fees – Passive Strategies

as of December 31, 2022¹

Account	Market Value As of 12/31/2022 (\$)	Asset Type	Estimated Annual Fee (%)	Estimated Annual Fee (\$)	Peer Ranking Percentile (%)	Peer Median Fee (%)
Index Assets						
SSgA S&P 500	69,010,541	Domestic Equity	0.01	9,401	1	0.50
SSgA MSCI EAFE	33,951,983	Int'l Equity	0.06	20,37	1	0.75
SSgA Agg. Bond	83,265,768	Fixed Income	0.03	24,980	1	0.26
SSgA TIPS	54,551,729	Fixed Income	0.03	16,366	1	0.30

¹ Calculations were not reconciled with actual fees paid by the Pension Fund and will not match exactly. The table is for illustrative purposes only. Public market fees were calculated by multiplying manager fee schedule by market value as of December 31, 2022.



Public Manager Fee Benchmarking

Summary

- \rightarrow Austin Fire pay lower than median fee on 9 of 12 active public manager strategies.
- \rightarrow The index fund fees are significantly lower than the active manager fees.

Passive Framework



Passive Framework

Target Goal

- \rightarrow Based on conversations with the Board over the past year, we recommend implementing an approach to increase passive exposure.
- \rightarrow The framework below outlines a plan to increase passive exposure by roughly 10%.

Quantitative Factors

- → Our proposed plan is to shift \$10 mm each month (\$120 mm total) from actively managed equity and fixed income strategies to existing passive strategies.
- \rightarrow We will seek to execute the trades with staff in the second half of each month.

Qualitative Factors

- → In order to have some flexibility with the framework to incorporate real world market dynamics, we anticipate evaluating a number of factors when making a recommendation each month. Specifically we will evaluate:
 - Trailing period returns, with the preference of reducing exposure from outperforming strategies (i.e. "sell high)
 - If a manager is significantly underperforming and at risk of termination, this may also lend itself to a recommendation to reduce exposure and rotate into passive.
 - Generally we will only move assets within an asset class (i.e. from *active* international equity to *passive* international equity).



Passive Framework

Qualitative Factors (continued)

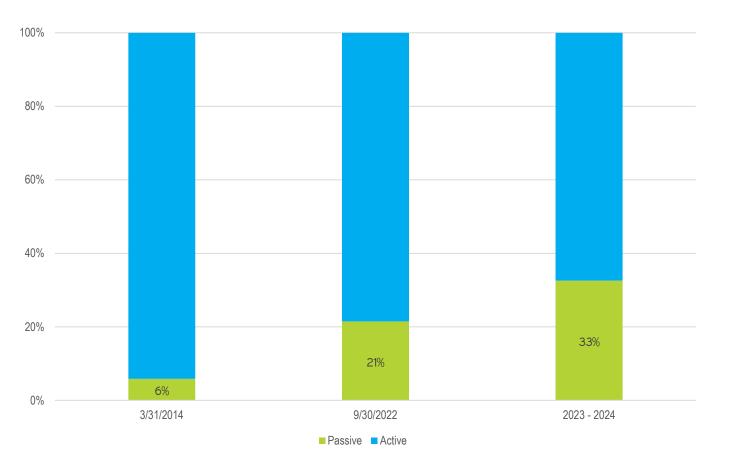
If a situation arises due to market conditions (e.g. large equity rally) that results in a need to rebalance across asset classes (e.g. selling equities and adding to fixed income) to get closer to policy targets, we will use that opportunity to rotate from active to passive and the trades will count towards the \$120 mm target

Procedural

- \rightarrow Today we are seeking Board approval of the framework.
- → Each month we anticipate evaluating returns/exposure during the first 15 days of the month, which will result in a recommendation to Staff for execution in the second half of each month (without Board involvement)
- \rightarrow The framework is consistent with the Board approved policy asset allocation.
- \rightarrow We will summarize all trades for the Board in our quarterly Board report.



Passive Framework



Past - Present - and Future

- \rightarrow This framework would increase total Fund level passive exposure from 21% to 33%.
- \rightarrow When Meketa started working with Austin Fire in 2014, passive exposure was only 6%.



Passive Framework

Estimated Fee Savings

Total value of transfers	Estimated Blended Average Active Public Manager Fee	Estimated Blended Average Passive Public Manager Fee	Estimated Annual Savings
	0.59%	0.03%	0.56%
\$120,000,000	\$707,000	\$39,000	\$668,000

 \rightarrow We estimate Austin Fire can save approximately \$668,000 per year with this framework.

- \rightarrow Calculation methodology:
 - There are twelve active public managers, so we calculated the average fee, assuming for simplicity that \$10 mm comes from each public manager.
 - There are four passive index funds, so we calculated the average fee, assuming each one gets equal weight contribution.
 - Estimated fee savings are simply the difference in fees.

Investment Policy Statement Review



Investment Policy Statement Review

Investment Policy Statement Review

- \rightarrow We conducted our annual review of the Investment Policy Statement ("IPS).
- \rightarrow We have no recommended changes.
- \rightarrow A full copy of the IPS is contained in this report.

Revised February 2022

Statement of Investment Policies and Objectives

for

Austin Fire Fighters Relief and Retirement Fund

Table of Contents

I.	Statement of Policy	1
II.	Investment Objectives	2
III.	Investment Constraints	2
IV.	Allocation of Investment Responsibilities	3
V.	Fiduciary Conduct	4
VI.	Available Asset Classes and Investment Guidelines	4
VII.	Asset Allocation	5
VIII.	Evaluation and Review	6
IX.	Securities Lending	6
Х.	Trading	7
XI.	Voting of Proxies	7
XII.	Investment Costs	7

Statement of Investment Policies and Objectives *for* Austin Fire Fighters Relief and Retirement Fund

Original Adoption Date: 12/10/2002

Revised:	12/12/2006
Revised:	6/29/2009
Revised:	10/25/2010
Revised:	8/24/2012
Revised:	9/16/2014
Revised:	2/11/2016
Revised:	2/26/2018
Revised:	6/28/2021
Revised:	2/28/2022

I. STATEMENT OF POLICY

Purpose

This document is the official policy governing the investment practices of the Austin Fire Fighters Relief and Retirement Fund (the "Fund"). These policies and objectives (the "Policy") have been adopted by the Board of Trustees of the Fund (the "Board"), which has the fiduciary duty of overseeing Fund investments. The Policy is not to be deviated from by any responsible party without the prior written permission of the Board. All previous Fund investment policies and objectives are superseded by this document. Any revisions to this document will be promptly supplied to the appropriate parties in written format.

Investment Goals

The purpose of the Fund is to accumulate the financial reserves necessary to provide for the retirement pension benefits and other benefits set forth in the Fund's governing statute (e.g., COLAs) for eligible members of the Fund and their beneficiaries. A primary investment goal of the Fund is to emphasize consistency of growth in a manner that protects the Fund from excessive volatility in market value from year to year, while achieving its performance objective over a long-term horizon.

The Board, with consultation, advice, and assistance from the investment consultant, will use the Fund's asset allocation as the primary tool to achieve this goal. As this is a long-term projection and investments are subject to short-term volatility, the main investment review focus of the Board will be to emphasize total return of the Fund over a long-term time horizon. Each manager selected by the Board is expected to maintain a consistent philosophy and style, perform well versus others utilizing the same style, add incremental value after costs, and provide investment management in compliance with this document and the manager's contract with the Fund or other operating documents.

II. INVESTMENT OBJECTIVES

The primary objective of the Fund is to provide sufficient return and liquidity to pay the benefit obligations of the Fund on a timely and regular basis. The Fund is a permanent one and there is currently no expectation of need for significant liquidity from the Fund's portfolio. The Fund shall be considered a total return fund, with appropriate recognition given to both current income and capital appreciation. The Board accepts the risks associated with investing in public and private capital markets (market risks), but will minimize wherever possible those risks for which the Fund is unlikely to be compensated (non-market or diversifiable risks). The risk and return investment objectives of the Fund are set forth below and should strive to be achieved in a manner consistent with the goals stated in Section I above.

A. Risk Objectives

- To accept the minimum level of risk required to achieve the Fund's return objective as stated immediately below.
- To minimize the likelihood of experiencing a loss over any full market cycle.
- To use diversification to minimize exposure to company and industry-specific risks in the aggregate investment portfolio.

B. Return Objective

• To manage the Fund's assets so as to achieve a high likelihood of attaining a 7.3% nominal return over long-term time horizon.

C. Performance Objective

• To manage the Fund's assets so as to achieve a high likelihood of outperforming the total return of an index composed of a mix of asset class benchmarks over a market cycle. The benchmarks used for each asset class, as well as the mix of such benchmarks to determine the Fund's composite index, will be determined by the Board and set forth in its Operating Procedures.

III. INVESTMENT CONSTRAINTS

A. Legal and Regulatory

The Board intends that the assets of the Fund at all times are invested in accordance with applicable federal and Texas law and regulations, including its governing statute, its governing instruments, and applicable fiduciary standards. The Board will retain legal counsel when appropriate to review contracts and provide advice with respect to applicable statutes and regulations.

B. Time Horizon

The Fund will be managed on a going-concern basis. The assets of the Fund will be invested with a long-term horizon (twenty years or more), consistent with the participant demographics and the purpose of the Fund.

C. Liquidity

The Board intends to maintain sufficient liquidity to meet at least three years of anticipated beneficiary payments. To this end, the Board intends to invest no more than 40% of the Fund's assets in illiquid vehicles. Illiquid vehicles are defined as those vehicles that do not allow withdrawals to occur on at least a quarterly basis.

D. Over-Concentration

The securities representing equity of any one company shall not exceed 6% of the market value of the Fund. Fixed income securities of any one corporation shall be limited to 6%, at market, of the Fund.

IV. ALLOCATION OF INVESTMENT RESPONSIBILITIES

A. Board of Trustees

The Board has the fiduciary responsibility for managing the investment process. In fulfilling this responsibility, the Board will establish and maintain investment policies and objectives. Within this framework, the Board will select, contract with, monitor, and evaluate the investment consultant, investment managers, bank custodian, and other parties to ensure that actual results meet objectives.

B. Fund Staff

The Staff of the Fund is responsible for oversight and management of the day-to-day operations of the Fund. This includes, but is not limited to, oversight of Fund policies and procedures, working closely with the investment consultant and investment managers, executing and reconciling all private market cash flows for the Fund, oversight of budget, oversight of manager fee payment and reconciliation, Board meeting preparation and coordination. Staff is responsible for direct communication with Fund participants related to all retirement calculations.

C. Investment Consultant

The investment consultant's duty is to render competent, professional advice and assistance and to work with the Board with respect to the investment process. This includes meeting at least quarterly with the Board to provide perspective as to the Fund's goals and analysis of the Fund's investments. The consultant will advise, consult, and work with the Board to develop and maintain a properly diversified portfolio.

The investment consultant will perform its duties and obligations to the Board in conformance with generally accepted industry standards and its contract with the Fund.

Fund allocation and performance will be regularly reviewed and recommendations will be made as appropriate. The consultant will assist the Board in investment manager selection, when needed, and will promptly inform the Board and discuss the impact of material changes taking place within any current manager's organization and/or investment process. Within this process, the investment consultant assumes fiduciary responsibility for advice given regarding the management of the investment process.

D. Investment Managers

The investment managers for separately managed accounts will construct and manage investment portfolios consistent with the investment philosophy and disciplines they were hired to implement and which are specified in this document and in their respective investment management agreement (IMA) they execute with the Fund. Investment managers will select specific securities, buy and sell such securities, and manage the investment portfolio within their guidelines. The Board also believes that investment decisions are best made when not restricted by excessive procedure. Therefore, full discretion is delegated to the investment managers to carry out the investment of the respective portfolios within stated guidelines.

The Board may also invest in pooled investment vehicles or private market investment vehicles. The governing instruments of these vehicles should specify the applicable investment philosophy and disciplines and provide the investment guidelines for the investment.

E. Custodian Bank

The custodian bank will hold all cash and securities, and will regularly value, list and summarize these holdings for the Board's review. In addition, a bank or trust depository arrangement will be utilized to accept and hold cash prior to allocating it to the investment manager, and to invest such cash in liquid, interest-bearing instruments.

V. FIDUCIARY CONDUCT

An investment fiduciary includes, but is not limited to, a person who exercises discretionary authority or control in the investment of the assets of the Fund or who renders, for a fee, advice for the Fund. The term investment fiduciary includes, but is not limited to the members of the Board, the Fund Administrator, the investment consultant, and investment managers. An investment fiduciary shall discharge his or her duties in accordance with the fiduciary standards set forth in Section 802.203 of the Texas Government Code and other applicable law.

VI. AVAILABLE ASSET CLASSES AND INVESTMENT GUIDELINES

In consultation with the investment consultant and after proper consideration of the Board's investment objectives and asset allocation plan as discussed herein, the Board will determine the asset classes available for investment of Fund assets. The list of asset classes available for investment will be set forth in the Fund's Operating Procedures and updated as necessary. The specific degrees of diversification within each asset class will also be addressed in the Fund's Operating Procedures or each manager's investment guidelines, as applicable.

The investment guidelines for available asset classes, if applicable, are reflected in the Fund's Operating Procedures. In addition, specific investment guidelines for investment managers of separately managed accounts will be incorporated in the agreement with the Fund. Within their investment guidelines, each investment manager will also be furnished with a list of asset types and investment strategies that are forbidden. Investment guidelines

for pooled investment vehicles or private market investment vehicles will be set forth in the governing instruments of such vehicles.

VII. ASSET ALLOCATION

The Fund's achievement of its risk and return objectives is a function, in large part, of the Fund's asset allocation. The Board recognizes that the allocation of monies to various asset classes will be the major determinant of the Fund's return and risk experience over time. Therefore, the Board will allocate investments across available asset classes that, based on historical and expected returns and risks, provide the highest likelihood of meeting the Fund's investment objectives.

In determining the appropriate asset allocation, the expected return and risk behavior of each asset class and the likely interaction of various asset classes in a portfolio are to be considered. These "market assumptions" are to be determined and considered by the Board when establishing the asset allocation of the Fund. The Board, with the assistance of the investment consultant, will determine the applicable market assumptions, including the expected return, volatility, and correlations for each asset class, which will be set forth in the Fund's Operating Procedures.

A. Long-Term Allocation Ranges

Based on its determination of the appropriate risk posture for the Fund and its long-term return expectations, the Board and investment consultant have established the following asset mix guidelines for the Fund:

Asset Class	Fund Guidelines
Equity Investments	30-55%
Fixed Income Investments	20-40%
Alternatives	10-40%

Unneeded cash reserves can be a drag on the Fund's performance and the overall level of cash held by the Fund shall typically remain under 5% unless extraordinary circumstances warrant otherwise.

B. Long-Term Allocation Targets

Based on the investment objectives and constraints of the Fund, and on the expected behavior of the available asset classes, the Board will specify a long-term target allocation for each available asset class. These targets will be expressed as a percentage of the Fund's overall market value. These targets will be selected in conjunction with the appropriate ranges listed above to accommodate permissible variation resulting from market forces. The Fund's target allocations are listed in the Operating Procedures. The Board will review its asset allocation targets and ranges at least annually or sooner if warranted by a material event in either the liability structure of the plan or the capital markets.

The long-term target allocations are intended as strategic goals, not short-term imperatives. Thus, it is permissible for the overall Fund's asset allocation to deviate from the long-term target, as would likely occur during manager transitions, asset class restructurings, and other temporary changes in the Fund. Deviations from targets that occur due to capital market changes are discussed below.

C. Rebalancing

In general, cash flows to and from the Fund will be allocated in such a manner as to move each asset class toward its target allocation.

The Board recognizes that, periodically, market forces may move the Fund's allocations outside the target ranges. The Board also recognizes that failing to rebalance the allocations would unintentionally change the Fund's structure and risk posture. Consequently, the Board has established a process to rebalance the allocations periodically.

On at least an annual basis, if any strategic allocation is outside the specified target range, assets will be shifted to return the strategy to the target range. The specific plan for rebalancing will identify those assets that can be shifted at the lowest possible risk and cost, if the rebalancing cannot be accomplished solely by allocating contributions and withdrawals.

VIII. EVALUATION AND REVIEW

As a function of its fiduciary responsibilities to monitor the investment decisions it makes on behalf of the Fund, the Board will regularly review the investments of the Fund. This review and evaluation of investments will be conducted in accordance with the following:

- On a quarterly basis, the Board, through the report of the investment consultant, will review the overall investment performance of the Fund and individual investment managers. This report will include a review of performance generally and in relation to the composite and asset class benchmarks established by the Board.
- The investment consultant will continually monitor the investment managers and other investments of the Fund to ensure that managers or such investments performed in accordance with applicable investment guidelines and the expected philosophy, methodology and style. The investment consultant will report to the Board on a quarterly basis any material deviation from the applicable guidelines or any other structural, organizational, philosophical, or other material change that warrants the Board's attention.
- At least annually, the Board will review the asset allocation of the Fund to determine if it remains appropriate in order to achieve the investment objectives of the Fund. This review will include an evaluation of market assumptions utilized in establishing the asset allocation to determine if any changes to these assumptions are warranted, as well as if any other asset classes should be made available for investment.
- At least annually, the Board will formally review this Policy to determine whether it continues to be appropriate in light of the Board's investment goals and objectives and changes in the capital markets and/or the Fund's condition or circumstances.

IX. SECURITIES LENDING

The Board may select an agent to lend the financial securities of the Fund, but has no obligation to do so. The securities lending program shall in no way inhibit the trading activities of the investment managers of the Fund.

X. TRADING

In accordance with the legal and fiduciary obligations imposed on investment managers by either their agreements with the Fund or applicable federal or Texas law, all trades executed by managers must be for the exclusive benefit of the Fund's participants and beneficiaries. Managers are expected to seek best execution on all trades.

XI. VOTING OF PROXIES

The Board has delegated the responsibility of voting all proxies to the investment managers. The Board expects that managers will execute all proxies in a timely fashion. Also, the Board expects the managers to provide a full accounting of all proxy votes, and upon request, a written explanation of individual voting decisions.

XII. INVESTMENT COSTS

The Board intends to monitor and control investment costs at every level of the Fund through the following:

- Professional fees will be negotiated whenever possible.
- Where appropriate, passive portfolios will be used to minimize management fees and portfolio turnover.
- The Fund may enter into performance-based fees with specific managers.
- If possible, assets will be transferred in-kind during manager transitions and Fund restructurings to eliminate unnecessary turnover expenses.
- Managers are instructed to seek best execution.

Roadmap



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AUSTIN FIRE FIGHTERS RELIEF AND RETIREMENT FUND

PRELIMINARY ROAD MAP

February 2023 Investment Committee Meeting

- 1. 4Q performance review
- 2. Public manager fee benchmarking
- 3. Passive exposure framework
- 4. Annual Investment Policy Statement review
- 5. Memos from the quarter

May 2023 Investment Committee Meeting

1. Annual asset study review

August 2023 Investment Committee Meeting

- 1. Asset allocation/liability study
- 2. Annual Operating Procedures review
- 3. Annual private equity peer performance benchmarking

November 2023 Investment Committee Meeting

1. Annual private equity pacing study

Ongoing 2023 objectives

- 1. Evaluate private equity commitments
- 2. Investment Education Sessions

¹ Dates and actions subject to change based on client needs and capital market conditions

Appendix

Disclaimer, Glossary, and Notes



Disclaimer, Glossary, and Notes

WE HAVE PREPARED THIS REPORT FOR THE SOLE BENEFIT OF AUSTIN FIRE FIGHTERS RELIEF AND RETIREMENT FUND.

SIGNIFICANT EVENTS MAY OCCUR (OR HAVE OCCURRED) AFTER THE DATE OF THIS REPORT AND THAT IT IS NOT OUR FUNCTION OR RESPONSIBILITY TO UPDATE THIS REPORT. ANY OPINIONS OR RECOMMENDATIONS PRESENTED HEREIN REPRESENT OUR GOOD FAITH VIEWS AS OF THE DATE OF THIS REPORT AND ARE SUBJECT TO CHANGE AT ANY TIME. ALL INVESTMENTS INVOLVE RISK. THERE CAN BE NO GUARANTEE THAT THE STRATEGIES, TACTICS, AND METHODS DISCUSSED HERE WILL BE SUCCESSFUL.

INFORMATION USED TO PREPARE THIS REPORT WAS OBTAINED FROM INVESTMENT MANAGERS, CUSTODIANS, AND OTHER EXTERNAL SOURCES. WHILE WE HAVE EXERCISED REASONABLE CARE IN PREPARING THIS REPORT, WE CANNOT GUARANTEE THE ACCURACY OF ALL SOURCE INFORMATION CONTAINED HEREIN.

CERTAIN INFORMATION CONTAINED IN THIS REPORT MAY CONSTITUTE "FORWARD - LOOKING STATEMENTS," WHICH CAN BE IDENTIFIED BY THE USE OF TERMINOLOGY SUCH AS "MAY," "WILL," "SHOULD," "EXPECT," "AIM", "ANTICIPATE," "TARGET," "PROJECT," "ESTIMATE," "INTEND," "CONTINUE" OR "BELIEVE," OR THE NEGATIVES THEREOF OR OTHER VARIATIONS THEREON OR COMPARABLE TERMINOLOGY. ANY FORWARD-LOOKING STATEMENTS, FORECASTS, PROJECTIONS, VALUATIONS, OR RESULTS IN THIS PRESENTATION ARE BASED UPON CURRENT ASSUMPTIONS. CHANGES TO ANY ASSUMPTIONS MAY HAVE A MATERIAL IMPACT ON FORWARD - LOOKING STATEMENTS, FORECASTS, PROJECTIONS, VALUATIONS, VALUATIONS, OR RESULTS IN THIS PRESENTATION ARE BASED UPON CURRENT, PROJECTIONS, VALUATIONS, OR RESULTS. ACTUAL RESULTS MAY THEREFORE BE MATERIALLY DIFFERENT FROM ANY FORECASTS, PROJECTIONS, VALUATIONS, OR RESULTS IN THIS PRESENTATION.

PERFORMANCE DATA CONTAINED HEREIN REPRESENT PAST PERFORMANCE. PAST PERFORMANCE IS NO GUARANTEE OF FUTURE RESULTS.



Disclaimer, Glossary, and Notes

Credit Risk: Refers to the risk that the issuer of a fixed income security may default (i.e., the issuer will be unable to make timely principal and/or interest payments on the security.)

Duration: Measure of the sensitivity of the price of a bond to a change in its yield to maturity. Duration summarizes, in a single number, the characteristics that cause bond prices to change in response to a change in interest rates. For example, the price of a bond with a duration of three years will rise by approximately 3% for each 1% decrease in its yield to maturity. Conversely, the price will decrease 3% for each 1% increase in the bond's yield. Price changes for two different bonds can be compared using duration. A bond with a duration of six years will exhibit twice the percentage price change of a bond with a three-year duration. The actual calculation of a bond's duration is somewhat complicated, but the idea behind the calculation is straightforward. The first step is to measure the time interval until receipt for each cash flow (coupon and principal payments) from a bond. The second step is to compute a weighted average of these time intervals. Each time interval is measured by the present value of that cash flow. This weighted average is the duration of the bond measured in years.

Information Ratio: This statistic is a measure of the consistency of a portfolio's performance relative to a benchmark. It is calculated by subtracting the benchmark return from the portfolio return (excess return), and dividing the resulting excess return by the standard deviation (volatility) of this excess return. A positive information ratio indicates outperformance versus the benchmark, and the higher the information ratio, the more consistent the outperformance.

Jensen's Alpha: A measure of the average return of a portfolio or investment in excess of what is predicted by its beta or "market" risk. Portfolio Return- [Risk Free Rate+Beta*(market return-Risk Free Rate)].

Market Capitalization: For a firm, market capitalization is the total market value of outstanding common stock. For a portfolio, market capitalization is the sum of the capitalization of each company weighted by the ratio of holdings in that company to total portfolio holdings; thus it is a weighted-average capitalization. Meketa Investment Group considers the largest 65% of the broad domestic equity market as large capitalization, the next 25% of the market as medium capitalization, and the smallest 10% of stocks as small capitalization.

Market Weighted: Stocks in many indices are weighted based on the total market capitalization of the issue. Thus, the individual returns of higher market-capitalization issues will more heavily influence an index's return than the returns of the smaller market-capitalization issues in the index.

Maturity: The date on which a loan, bond, mortgage, or other debt/security becomes due and is to be paid off.

Prepayment Risk: The risk that prepayments will increase (homeowners will prepay all or part of their mortgage) when mortgage interest rates decline; hence, investors' monies will be returned to them in a lower interest rate environment. Also, the risk that prepayments will slow down when mortgage interest rates rise; hence, investors will not have as much money as previously anticipated in a higher interest rate environment. A prepayment is any payment in excess of the scheduled mortgage payment.

Price-Book Value (P/B) Ratio: The current market price of a stock divided by its book value per share. Meketa Investment Group calculates P/B as the current price divided by Compustat's quarterly common equity. Common equity includes common stock, capital surplus, retained earnings, and treasury stock adjusted for both common and nonredeemable preferred stock. Similar to high P/E stocks, stocks with high P/B's tend to be riskier investments.



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Price-Earnings (P/E) Ratio: A stock's market price divided by its current or estimated future earnings. Lower P/E ratios often characterize stocks in low growth or mature industries, stocks in groups that have fallen out of favor, or stocks of established blue chip companies with long records of stable earnings and regular dividends. Sometimes a company that has good fundamentals may be viewed unfavorably by the market if it is an industry that is temporarily out of favor. Or a business may have experienced financial problems causing investors to be skeptical about is future. Either of these situations would result in lower relative P/E ratios. Some stocks exhibit above-average sales and earnings growth or expectations for above average growth. Consequently, investors are willing to pay more for these companies' earnings, which results in elevated P/E ratios. In other words, investors will pay more for shares of companies whose profits, in their opinion, are expected to increase faster than average. Because future events are in no way assured, high P/E stocks tend to be riskier and more volatile investments. Meketa Investment Group calculates P/E as the current price divided by the I/B/E/S consensus of twelve-month forecast earnings per share.

Quality Rating: The rank assigned a security by such rating services as Fitch, Moody's, and Standard & Poor's. The rating may be determined by such factors as (1) the likelihood of fulfillment of dividend, income, and principal payment of obligations; (2) the nature and provisions of the issue; and (3) the security's relative position in the event of liquidation of the company. Bonds assigned the top four grades (AAA, AA, A, BBB) are considered investment grade because they are eligible bank investments as determined by the controller of the currency.

Sharpe Ratio: A commonly used measure of risk-adjusted return. It is calculated by subtracting the risk free return (usually three-month Treasury bill) from the portfolio return and dividing the resulting excess return by the portfolio's total risk level (standard deviation). The result is a measure of return per unit of total risk taken. The higher the Sharpe ratio, the better the fund's historical risk adjusted performance.

STIF Account: Short-term investment fund at a custodian bank that invests in cash-equivalent instruments. It is generally used to safely invest the excess cash held by portfolio managers.

Standard Deviation: A measure of the total risk of an asset or a portfolio. Standard deviation measures the dispersion of a set of numbers around a central point (e.g., the average return). If the standard deviation is small, the distribution is concentrated within a narrow range of values. For a normal distribution, about two thirds of the observations will fall within one standard deviation of the mean, and 95% of the observations will fall within two standard deviations of the mean.

Style: The description of the type of approach and strategy utilized by an investment manager to manage funds. For example, the style for equities is determined by portfolio characteristics such as price-to-book value, price-to-earnings ratio, and dividend yield. Equity styles include growth, value, and core.

Tracking Error: A divergence between the price behavior of a position or a portfolio and the price behavior of a benchmark, as defined by the difference in standard deviation.



Disclaimer, Glossary, and Notes

Yield to Maturity: The yield, or return, provided by a bond to its maturity date; determined by a mathematical process, usually requiring the use of a "basis book." For example, a 5% bond pays \$5 a year interest on each \$100 par value. To figure its current yield, divide \$5 by \$95—the market price of the bond—and you get 5.26%. Assume that the same bond is due to mature in five years. On the maturity date, the issuer is pledged to pay \$100 for the bond that can be bought now for \$95. In other words, the bond is selling at a discount of 5% below par value. To figure yield to maturity, a simple and approximate method is to divide 5% by the five years to maturity, which equals 1% pro rata yearly. Add that 1% to the 5.26% current yield, and the yield to maturity is roughly 6.26%.

<u>5% (discount)</u> = 5 (yrs. to maturity) =

1% pro rata, plus 5.26% (current yield)

6.26% (yield to maturity)

Yield to Worst: The lowest potential yield that can be received on a bond without the issuer actually defaulting. The yield to worst is calculated by making worst-case scenario assumptions on the issue by calculating the returns that would be received if provisions, including prepayment, call, or sinking fund, are used by the issuer.

=

NCREIF Property Index (NPI): Measures unleveraged investment performance of a very large pool of individual commercial real estate properties acquired in the private market by tax-exempt institutional investors for investment purposes only. The NPI index is capitalization-weighted for a quarterly time series composite total rate of return.

NCREIF Fund Index - Open End Diversified Core Equity (NFI-ODCE): Measures the investment performance of 28 open-end commingled funds pursuing a core investment strategy that reflects funds' leverage and cash positions. The NFI-ODCE index is equal-weighted and is reported gross and net of fees for a quarterly time series composite total rate of return.

Sources: Investment Terminology, International Foundation of Employee Benefit Plans, 1999. The Handbook of Fixed Income Securities, Fabozzi, Frank J., 1991

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Throughout this report, numbers may not sum due to rounding.

Returns for periods greater than one year are annualized throughout this report.

Values shown are in millions of dollars, unless noted otherwise.