



Town of Waterford

Quarterly Investment Review - Third Quarter 2022

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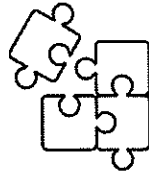
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Fiducient Advisors Update



Retirement Plans



Endowments & Foundations



The Wealth Office®

Featured Insights

- Plan Sponsor Newsletter
- Blog: 4 Ways to Improve Participant Outcomes Today

Coming Soon

- The Public Fiduciary Newsletter

Featured Insights

- Guide to Mission-Aligned Investing
- Nonprofit Investment Stewards Podcast
- Blog: Portfolio Rebalancing: The Easiest Difficult Decision an Investor Can Make

Coming Soon

- Steward Newsletter

Featured Insights

- Blog: Creating a Legacy Free from Estate Tax

Coming Soon

- Year-End Tax Planning

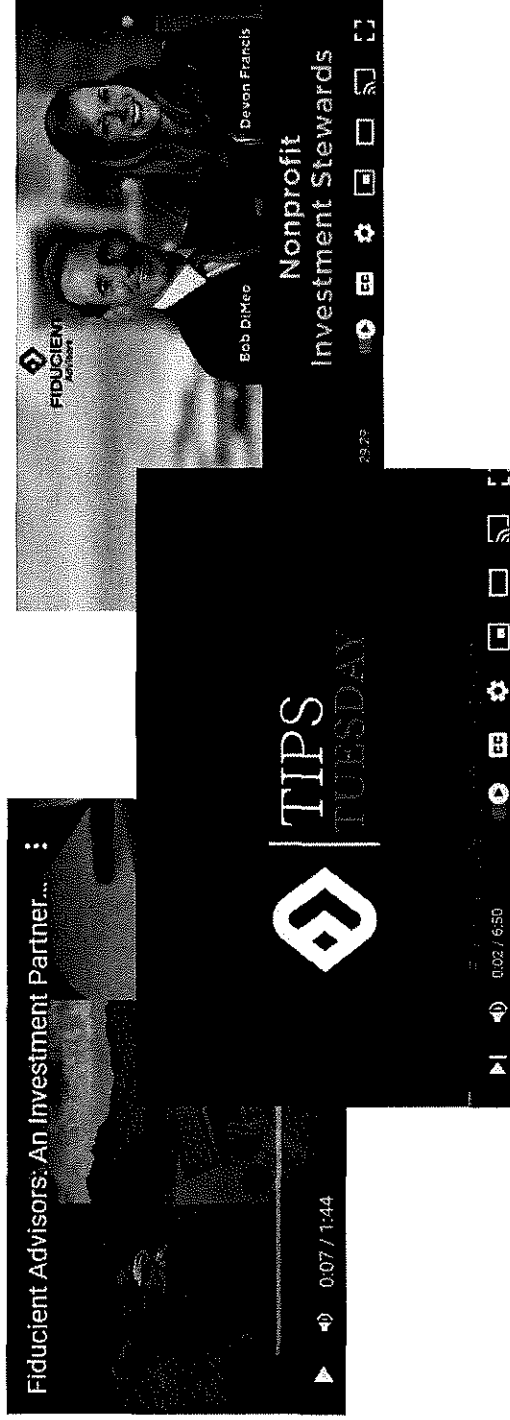
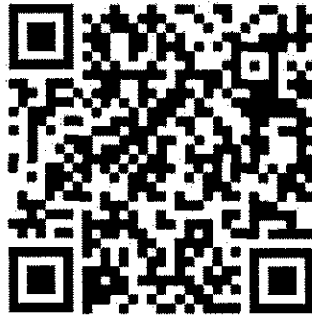


Research Insights

- Monthly Market Recaps
- Monthly Market Updates
 - *Fresh Mountain Air, Same Hawkish Stance* – August
 - *Making Hay While the Sun Shines: Earnings in Focus* – July
- Webcast: Fiducient Speaker Series with Liz Ann Sonders
- Webcast: Mid-Year Capital Markets and Economic Update
- Private Markets Move Along in More Challenging Market Environment

Fiducient Advisors Update

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2022 New Associates – Welcome!

- | | |
|---|---|
| • Carolyn Barenbaum-Meyers, Finance Associate | • Robert Dunne, Consulting Analyst |
| • Daniel Bell, Director of Finance and Accounting | • Emily Gildea, Research Associate |
| • Matthew Brophy, Middle Office Associate | • Jeremy Mayeur, Middle Office Associate |
| • Gina Christodoulou, Performance Analyst | • Evan Paretti, Consulting Analyst |
| • David Correa, Finance Billing Specialist | • Lauren Rose, Client Service Associate, The Wealth Office® |
| • Nakeisha Deodat, Jr. Client Service Associate | • Hunter Verbeck, Performance Analyst |

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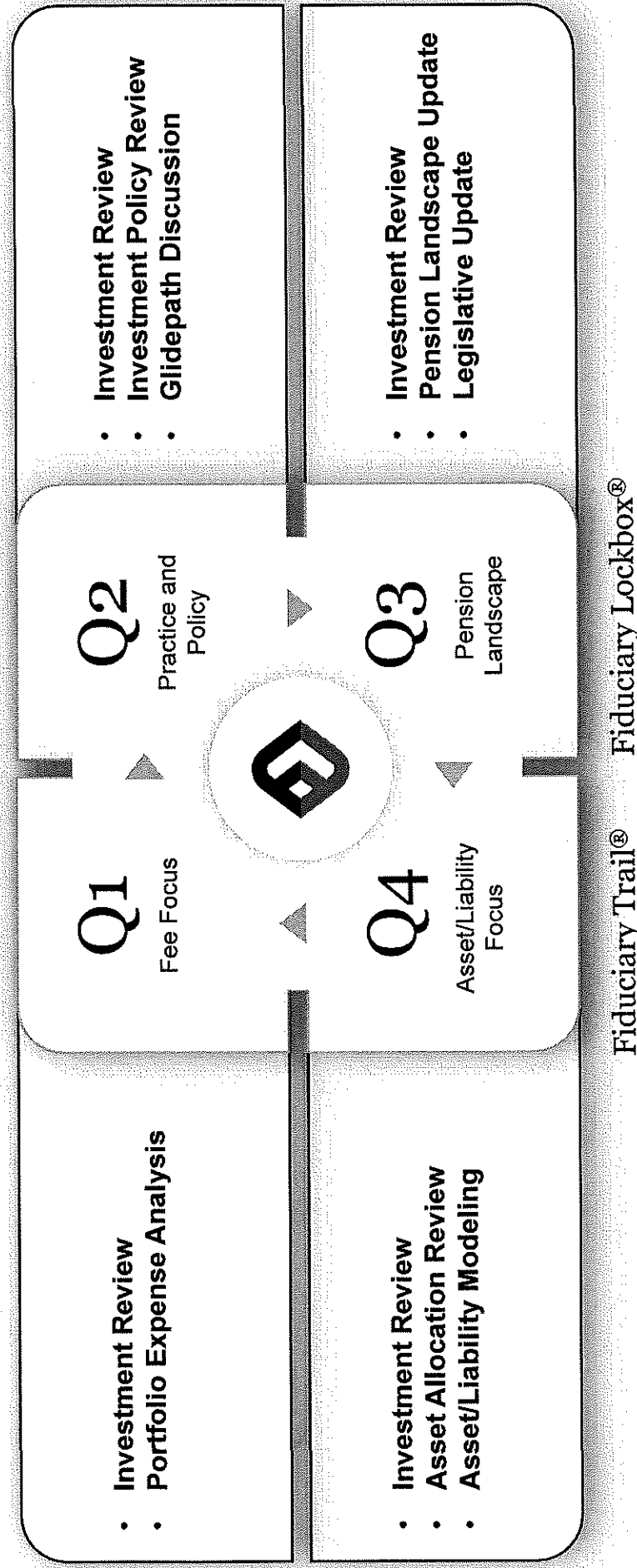




Fiduciary Governance Calendar



Fiduciary Governance Calendar



Actuarial Review



Town of Waterford OPEB Plan

	<u>7/1/2020</u>	<u>7/1/2018</u>
Actuarial Value of Assets	\$6,109,331	\$3,636,422
Total Accrued Liability	\$25,386,650	\$23,232,946
Funded Ratio	24.1%	15.7%
Actuarial Return Assumption	6.50%	6.75%

Town of Waterford Retirement Plan

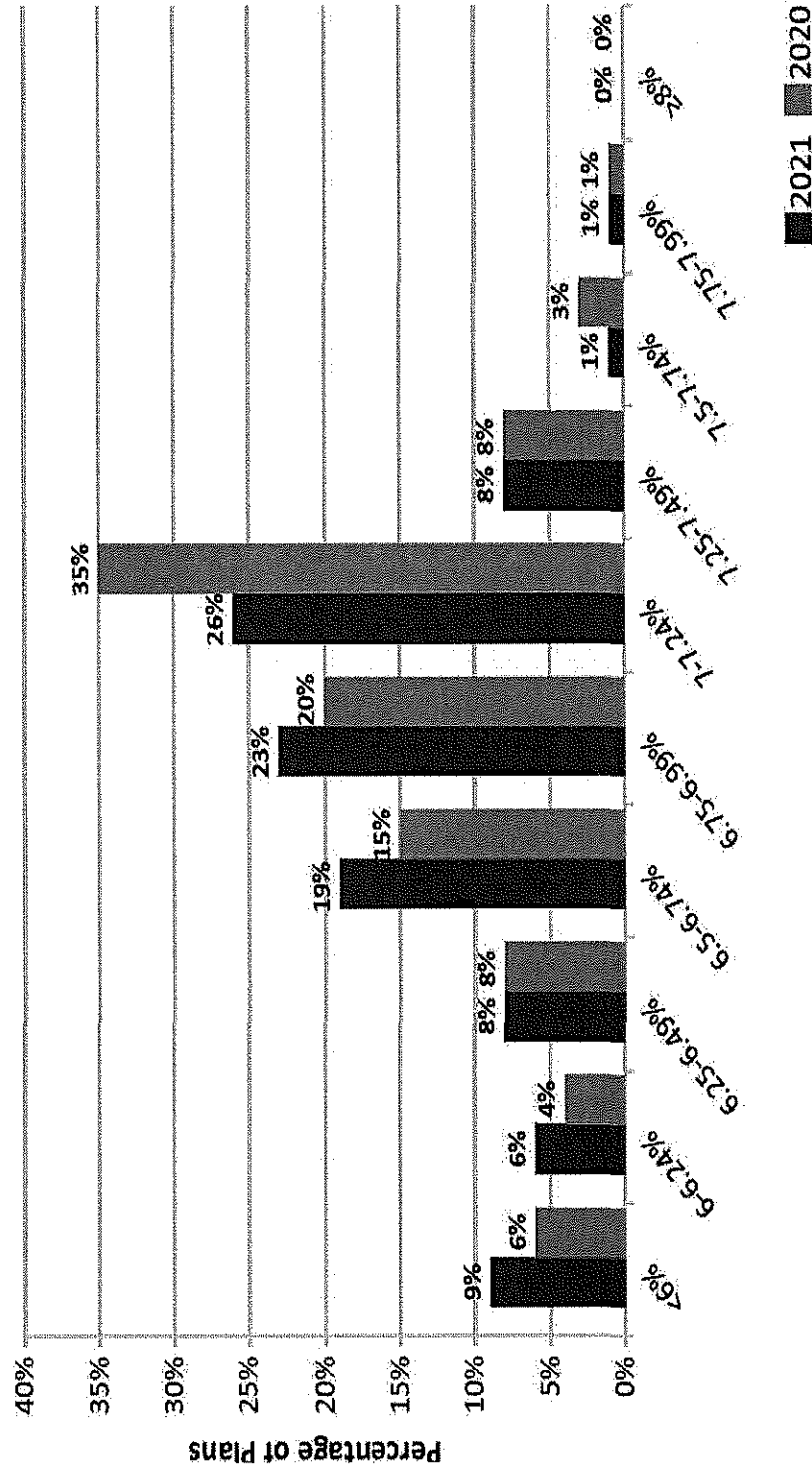
	<u>7/1/2021</u>	<u>7/1/2019</u>
Actuarial Value of Assets	\$587,576	\$553,774
Total Accrued Liability	\$786,000	\$1,019,984
Funded Ratio	74.8%	54.3%
Actuarial Return Assumption	6.25%	6.25%

Source: Hooker & Holcombe, Town of Waterford Retirement Plan 2021 Valuation Report & Waterford OPEB 2020 Valuation Report



Trends in Investment Return Assumptions

- The average investment return assumption across Connecticut municipal pension plans was 6.53% and the median was 6.75% for FY 2021. This represents a continued trend of public plans setting the assumed rate of return at lower, more achievable targets. According to the study, roughly 45% of plans reduced the long-term rate of return assumption from FY 2020 to FY 2021, with the most common reduction being 25 basis points.
- We may see a pause in setting lower assumed rates of return on a go forward bases due to higher bond yields and lackluster investment returns in FY 2022 resulting in lower funded ratios.

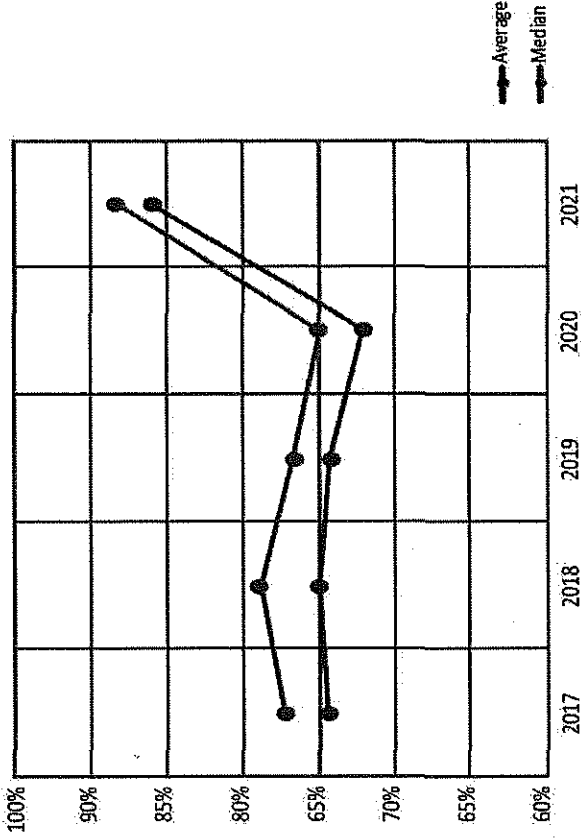
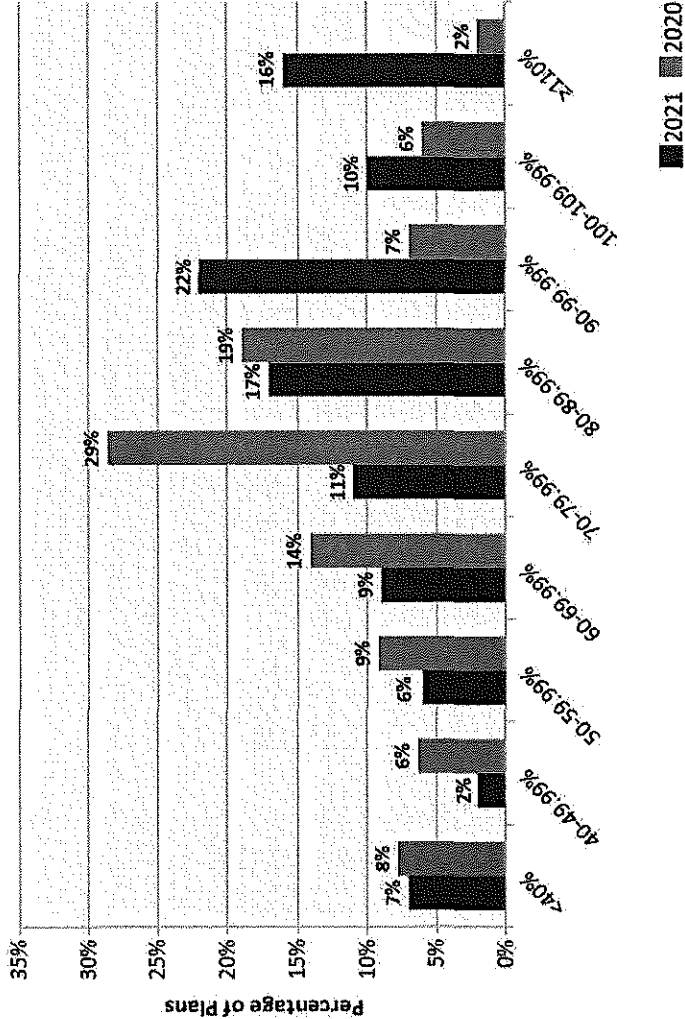


Source: Hooker & Holcombe 2022 Municipal Pension & OPEB Report: 200 Municipal CT Plans. Data extracted from the CAFRs submitted by local municipalities in CT for fiscal year ending June 30, 2021



Trends in Funded Ratios

- Funded ratios for CT municipal pension plans improved meaningfully in FY 2021 following outsized investment returns. The average funded ratio stood at 85.8% as of FY 2021 versus an average funded ratio of 72.2% for FY 2020.
- FY 2022's sub par investment performance will likely have a negative impact on funded ratios for CT public pension plans.

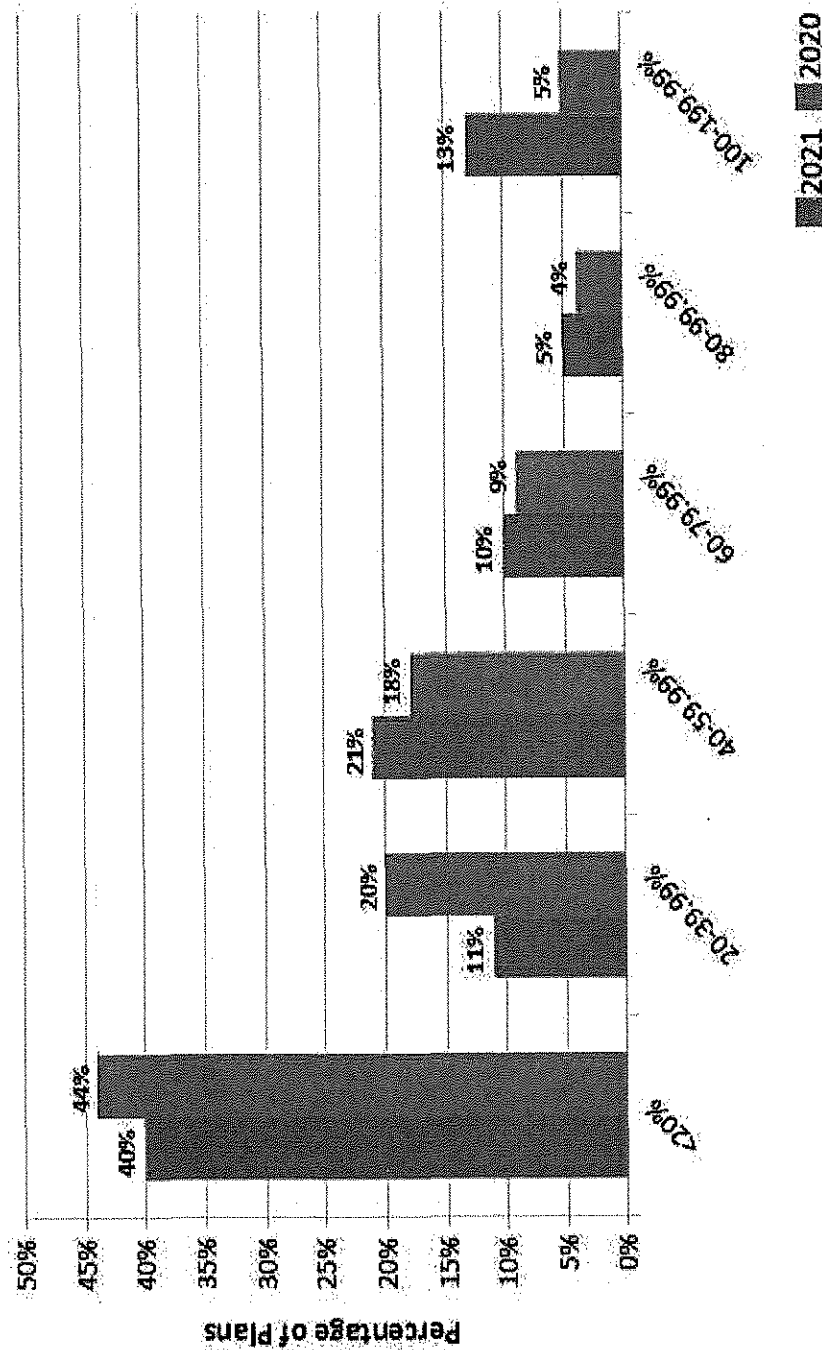


Source: Hooker & Holcombe 2022 Municipal Pension & OPEB Report. 200 Municipal CT Plans. Data extracted from the CAFRs submitted by local municipalities in CT for fiscal year ending June 30, 2021



Trends in Funded Ratios for OPEB Plans

- For OPEB plans funded via a trust, funded ratio improved for FY 2021 with the average funded status reported at 43.1%. The average investment return assumption was 6.50% as of FY 2021.
- 13% of plans are at 100% funded as reported by actuarial firm Hooker & Holcombe who also notes that the increase was driven largely by strong investment returns in FY 2021 and funding policy contributions.



Average Funded
Ratio of Funded
OPEB Plan:
FYE 2021: 43.1%
FYE 2020: 31.7%

Average Investment
Return Assumption:
6.50%
Funded OPEB

Source: Hooker & Holcombe 2022 Municipal Pension & OPEB Report: 175 municipal OPEB plans. Data extracted from the CAFRs submitted by local municipalities in CT for fiscal year ending June 30, 2021



Capital Markets Overview

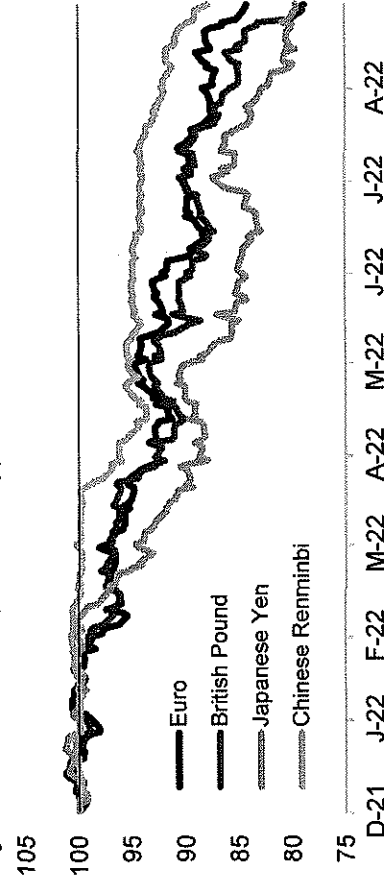


Market Themes

1. The pace of the current rate hiking cycle is among the fastest we've experienced, as the Fed remains steadfast in its mission to combat inflation at the potential expense of slowing economic demand.
2. For much of the year, higher interest rates in the U.S., along with recent elevated concerns for growth stemming from Europe, have provided a tailwind for the U.S. dollar.
3. A host of macroeconomic factors – global inflation, tightening monetary policy, supply chain logistics – are contributing to slowing global demand. Uncertainty around economic growth has resulted in elevated market volatility which is likely to continue in the near term.

Foreign Currencies Weaker versus U.S. Dollar

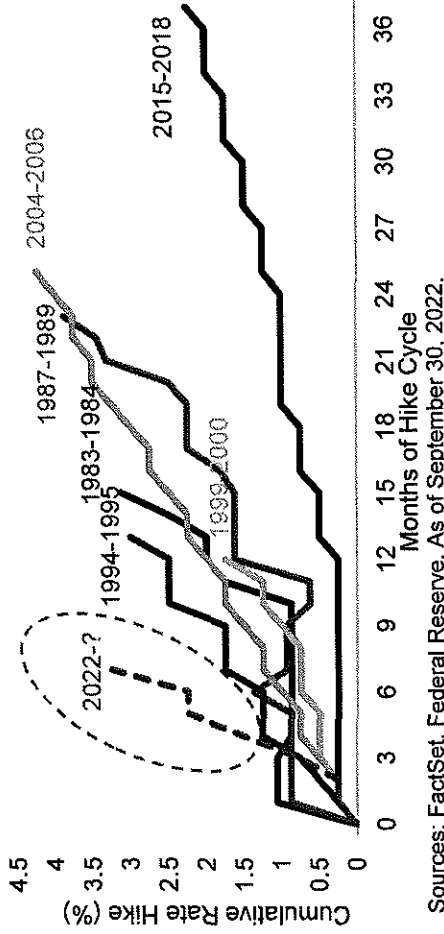
Foreign exchange markets have been volatile this year and the U.S. dollar has shined relative to many major currencies. The British pound came under pressure late in September following the announcement of the new Prime Minister's tax cut agenda; the Bank of Japan also stepped in to help curb the decline of the yen.



Source: FactSet. Indexed to 100 = December 31, 2021. Relative to the U.S. dollar. As of September 30, 2022.

Federal Reserve Hiking Cycles

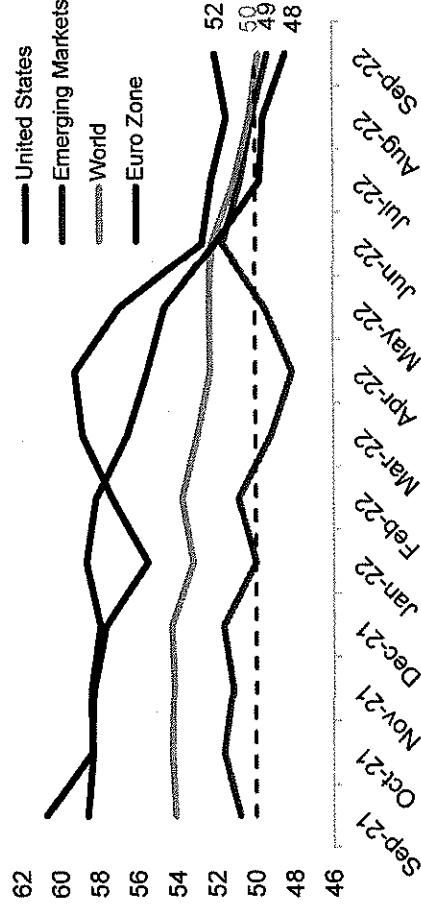
The Federal Reserve reaffirmed its commitment on fighting inflation at the September policy meeting by raising its policy rate an additional 75 bps and projected a more aggressive policy path compared to June.



Sources: FactSet, Federal Reserve. As of September 30, 2022.

Manufacturing PMI Shows Signs of Slowing

The Euro Zone and Emerging Market regions have moved into contraction territory based on purchasing managers indices. The U.S. remains resilient and saw a move higher in September, one factor contributing to demand for U.S. dollars.

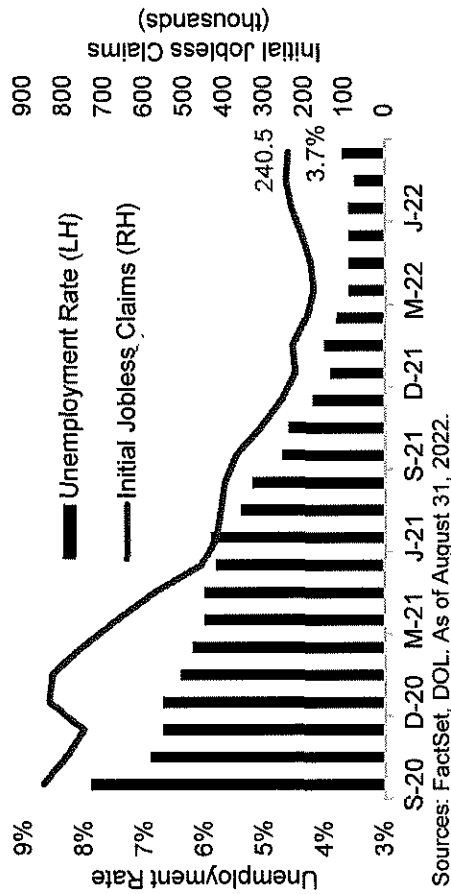


Sources: FactSet, Market. As of September 30, 2022. A reading above 50 indicates expansion.

Economic Review

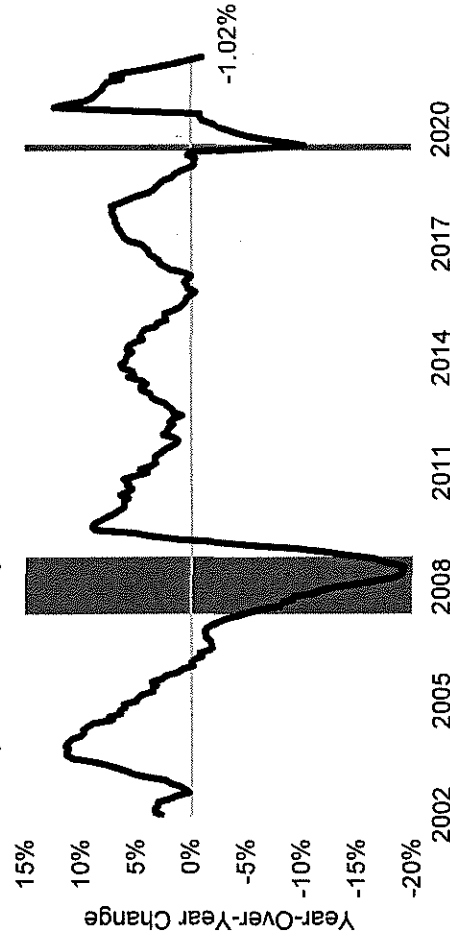
Labor Market Remains Resilient

The U.S. labor market remains strong, with both unemployment and jobless claims at pre-COVID levels, providing a solid foundation for the U.S. consumer and support for the broader economy.



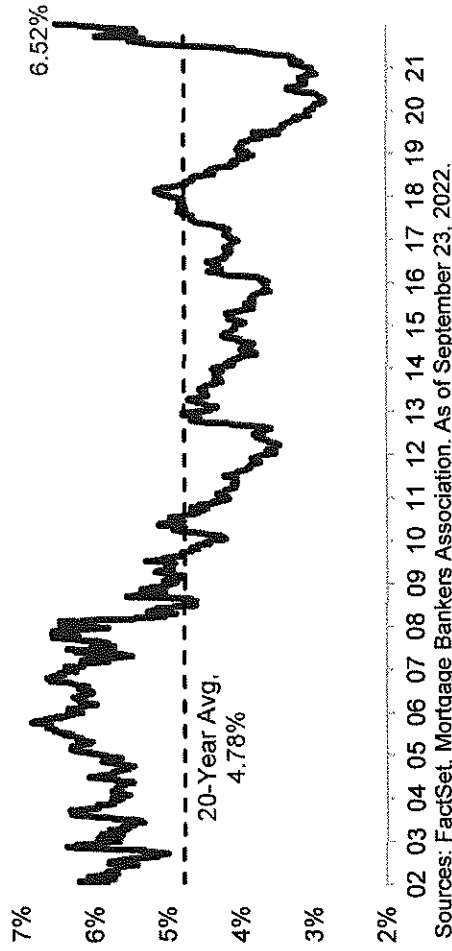
Leading Economic Indicator Index

The LEI moved into negative territory on a year-over-year basis, the first time since February 2021, indicating an elevated risk of recession.



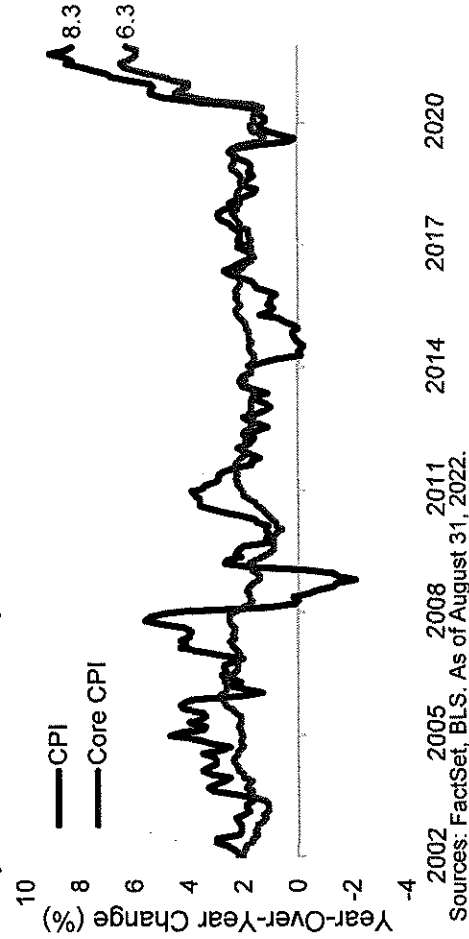
Tightening Financial Conditions – 30-Year Mortgage Rates

Rates on 30-year fixed mortgages crossed six percent for the first time since 2008, resulting in mortgage payments that are over \$800 higher per month than the beginning of the year.



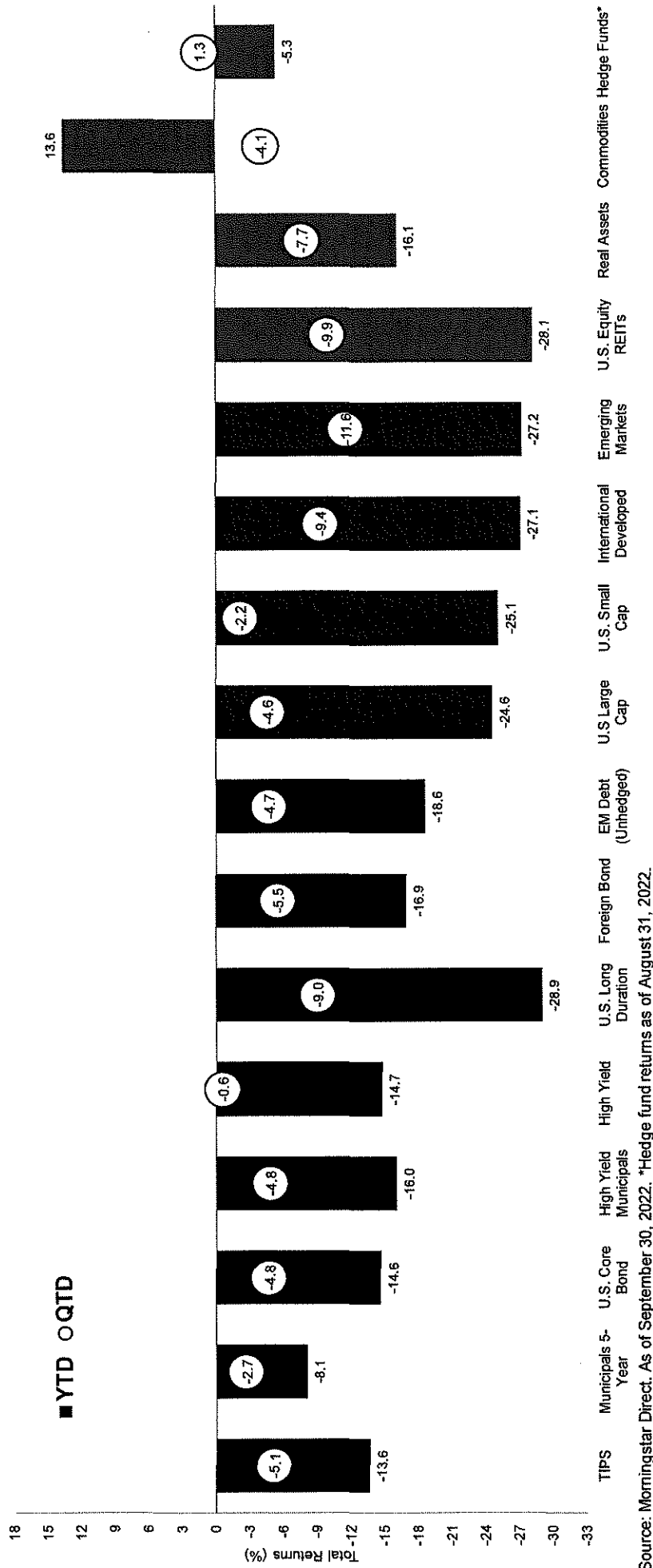
U.S. Inflation

Inflation remains elevated but has tapered from recent peaks. Energy and food continue to drive the headline number – the food component saw the largest year over year increase since May 1979.





Asset Class Returns



Fixed Income (3Q)

- Central banks grappled with dampening inflation and raised policy rates globally; interest rates moved higher as a result and bonds were broadly negative for the quarter.
- U.S. high yield held in relatively well, benefiting from a bull market rally early in the quarter but gave some back as concerns about the business cycle turning took hold in September.
- A strong U.S. dollar, as well as a spike in interest rates in the UK, pushed foreign debt lower for the quarter, trailing the U.S. market.

Equity (3Q)

- Investors continued to digest the impact of global inflation and a reduced outlook for economic growth sent risk assets lower, touching new 2022 lows in the quarter.
- U.S. equities outpaced their international counterparts as many see the U.S. positioned relatively better than non-U.S. regions. A strong U.S. dollar was an added headwind for non-U.S. equity markets.
- Diminished natural gas supply in Europe was a headwind for developed markets, while China was among the leading detractors within emerging markets.

Real Asset / Alternatives (3Q)

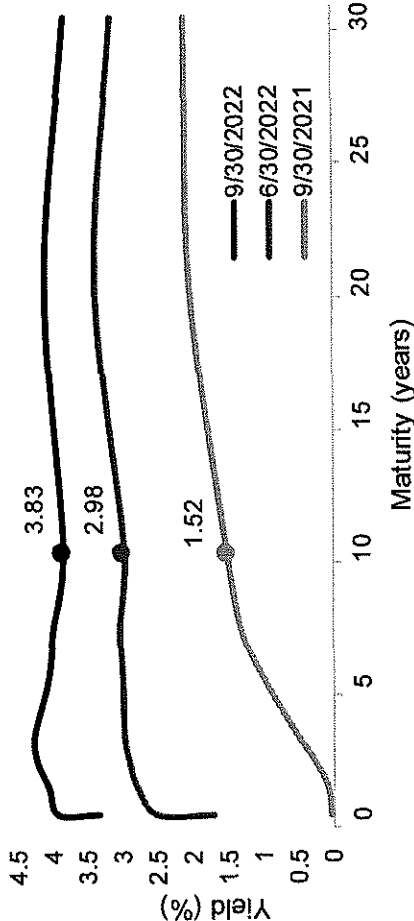
- Commodity markets took a step back in the third quarter on the back of slowing growth, improved supply, and the likelihood of reduced demand.
- REITs fell alongside the broader equity market in a risk-off move. Rising rates, falling home prices and reduced affordability contributed to the decline as well.
- + One of the few positive areas in the quarter, hedge funds have performed well YTD relative to both equities and fixed income and are earning their keep.



Fixed Income Market Update

U.S. Treasury Yield Curve

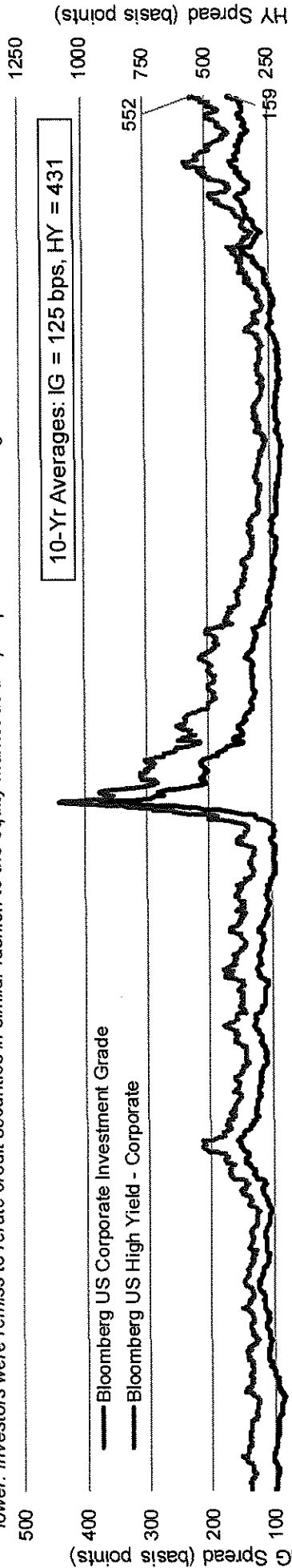
The Fed raised its target rate by 75 basis points for the third time in a row as it aims to bring inflation back to more manageable levels. The yield curve remains inverted across many parts of the curve as short-dated rates shifted higher in response to the Fed's actions.



Source: FactSet. As of September 30, 2022.

Corporate Market Spreads – Trailing 5 Years

Point to point, credit spreads were little changed in the quarter as investment grade spreads were four basis points wider and high yield spreads were 17 basis points lower. Investors were remiss to rerate credit securities in similar fashion to the equity market as the prospects for recession grew.



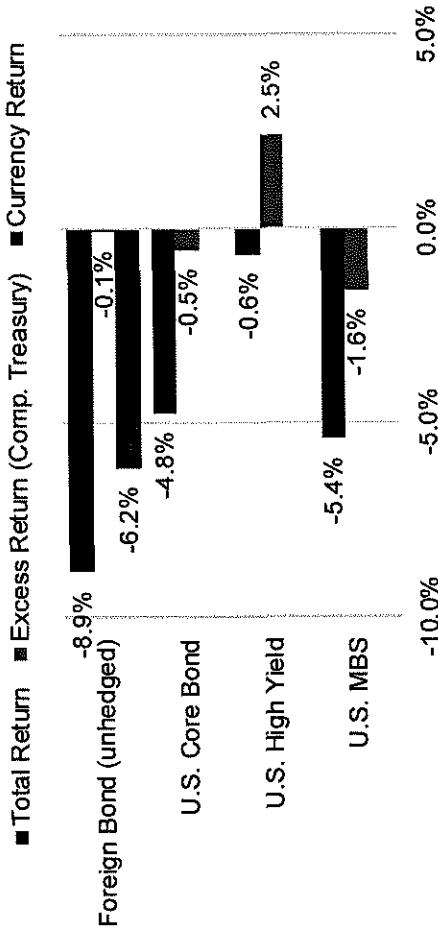
Source: FactSet. As of September 30, 2022.

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See disclosures for list of indices representing each asset class. Past performance does not indicate future performance and there is a possibility of a loss.

Index Performance Attribution (3Q 2022)

A strong U.S. dollar was once again a headwind for foreign bonds, while fiscal policy in the U.K. drove yields significantly higher. High yield outpaced similar duration Treasuries despite a late quarter sell-off.

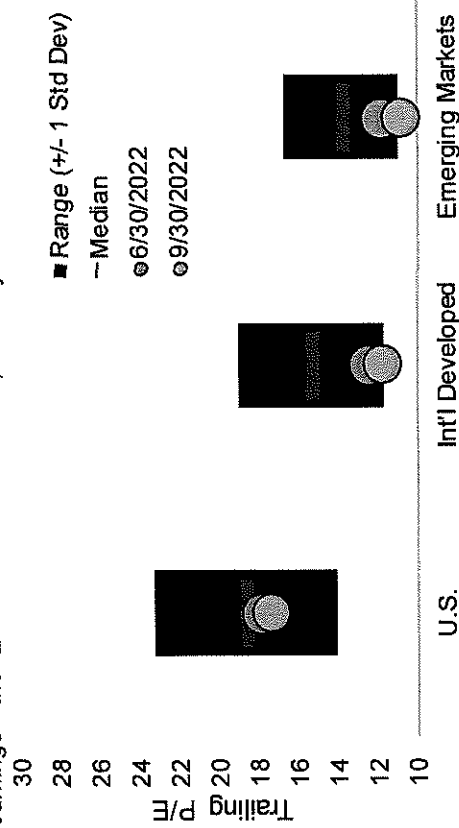


Source: FactSet. As of September 30, 2022.

Equity Market Update

Equity Valuations (Trailing PE – Last 15 Years)

Falling equity prices pushed valuations lower across regions, a silver lining as entry points are now more attractive, especially abroad. It remains to be seen if earnings – the “E” in P/E – will follow suit, as analysts reduce their estimates.



Source: FactSet. As of September 30, 2022.

Country Total Returns (%) – Top 10 Largest Economies

Global inflation continues to roil equity markets around the world, sending risk assets lower. Europe has come under pressure as of late as the energy crisis continues to unfold amidst restricted natural gas supplies from Russia and the impact it has on electricity prices, industrial production and household heat as we move into colder months. China's zero-COVID policy, weakness in the housing market, and supply disruptions have put negative pressure on the country's stock market.

■ YTD QOQTD (6.5)



Source: Morningstar Direct. As of September 30, 2022.

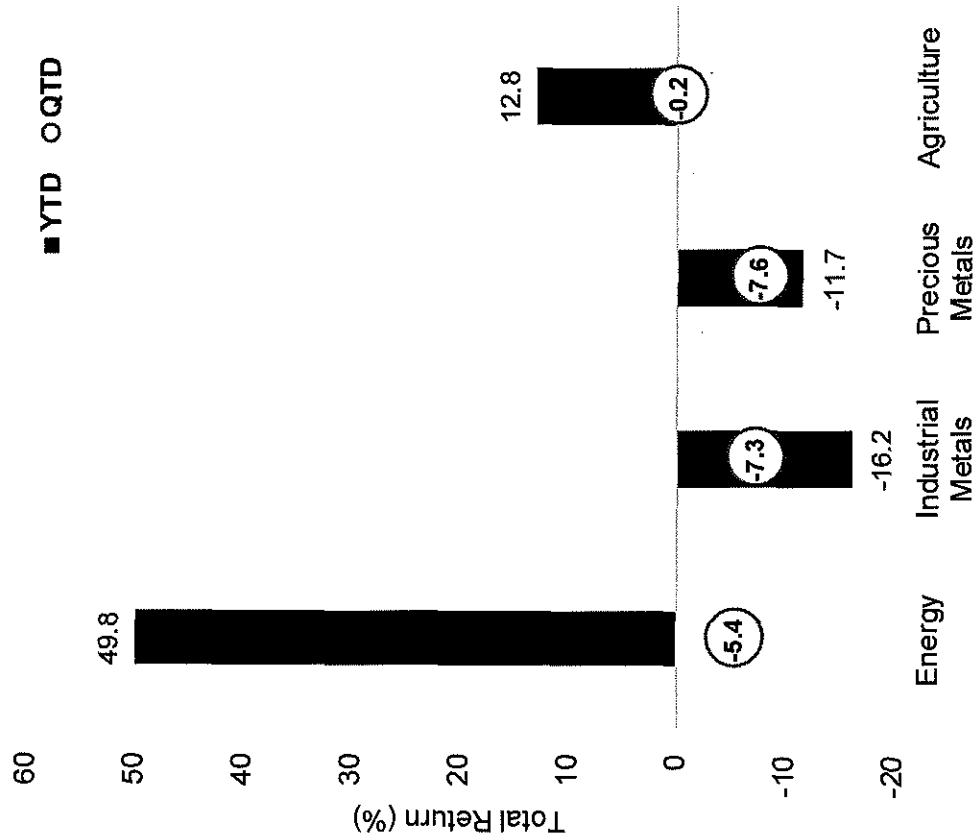
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Real Assets Market Update

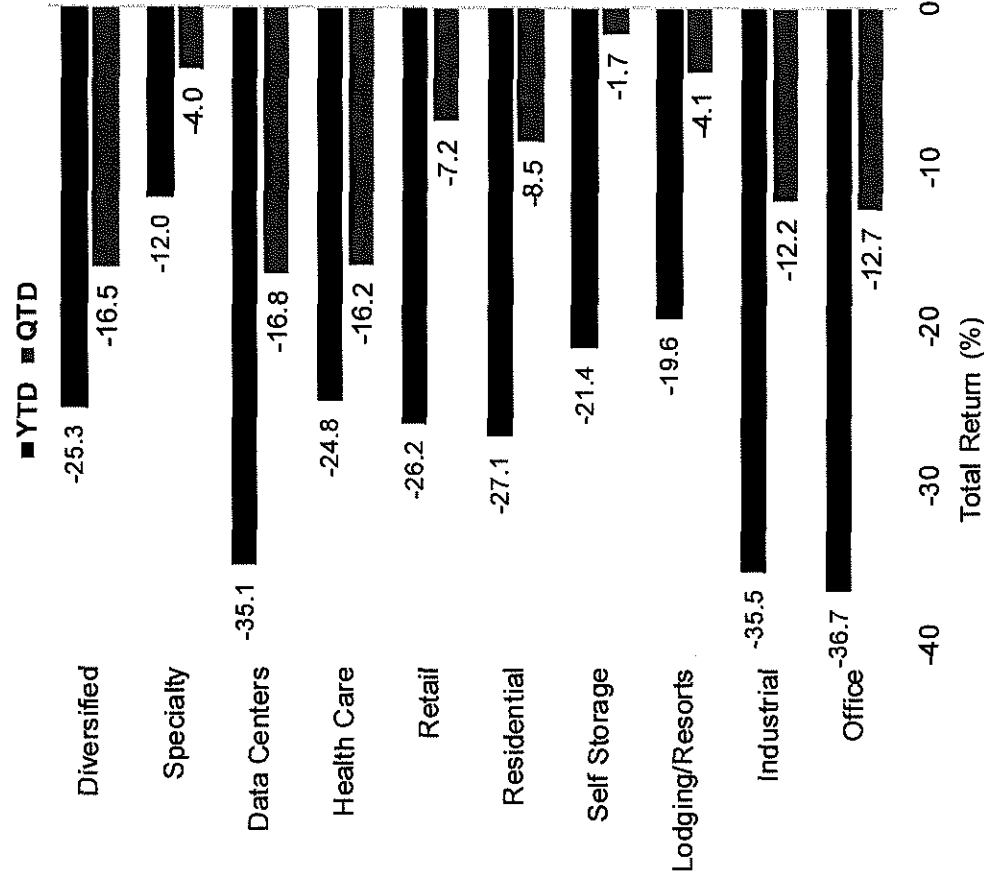
Commodity Performance

Commodity prices were generally weaker in the quarter as investors grew concerned that a slowing global economy will weaken demand for the assets. Energy remains the standout year-to-date as natural gas supply in Europe has been significantly reduced as a result of the Russia-Ukraine conflict.



REIT Sector Performance

Real estate continues to come under pressure. A myriad of forces worked against the asset class – higher interest rates, a cooling housing market, and uncertainty as to what the office space landscape will look like in the future – resulting in negative price moves for REITs.

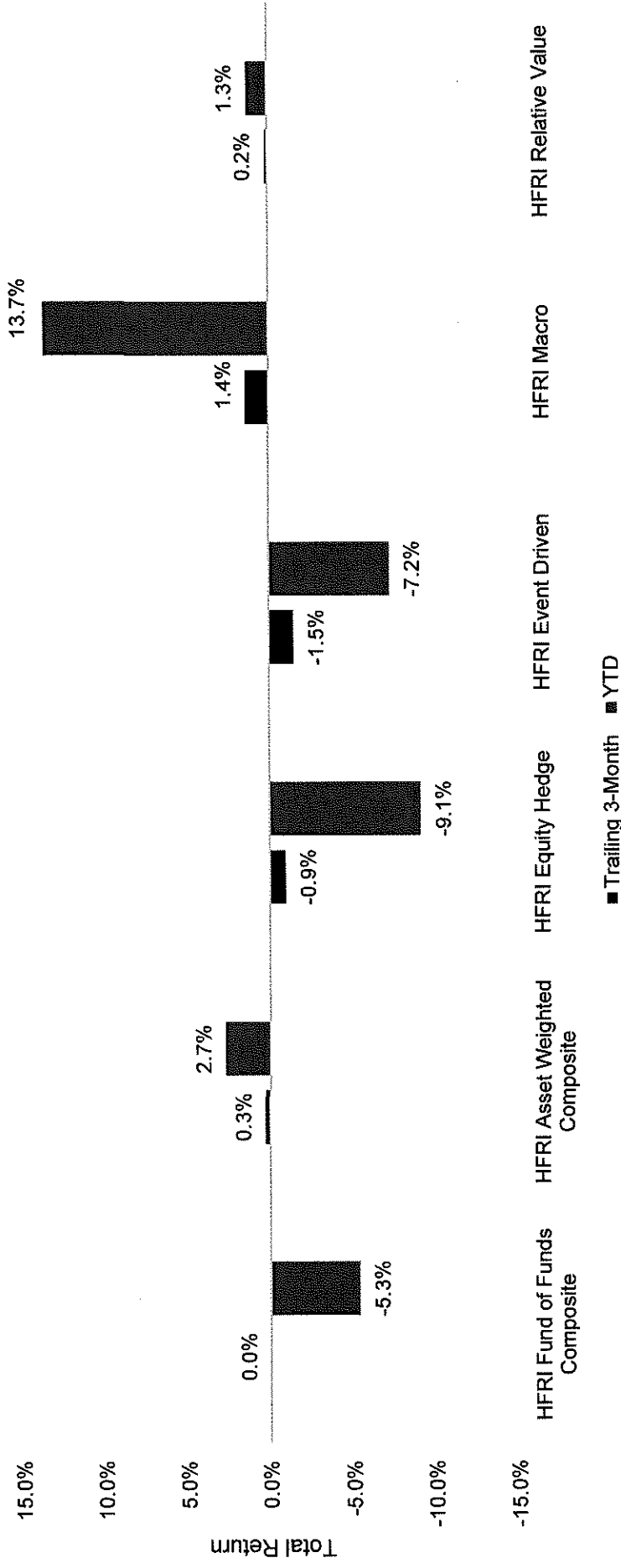


Source: Morningstar Direct. As of September 30, 2022.

Source: Morningstar Direct. As of September 30, 2022.



Marketable Alternatives



Source: Morningstar Direct. As of August 31, 2022.

Fund of Funds / Asset Weighted (3Q)

+/- The HFRI Fund of Funds Composite was flat over the trailing 3-month period, keeping year-to-date returns in negative territory at -5.3%.

+ The HFRI Asset Weighted Composite was positive over the trailing 3-month period, bringing year-to-date returns to 2.7%.

+ While there has been significant dispersion across strategies, hedge funds have largely served their purpose this year in limiting drawdowns.

Equity Hedge / Event Driven (3Q)

- Equity hedge strategies detracted during the period, though still outperformed equities as many strategies reduced net leverage and added index-level shorts.

- Event driven strategies were the largest detractors during the period, led by activist and distressed restructuring strategies.

+ Merger arbitrage strategies were positive during the period and have now generated positive returns year-to-date.

Macro / Relative Value (3Q)

+ Macro strategies were positive over the period, adding to a strong year of performance as an abundance of political and economic activity has provided significant opportunity.

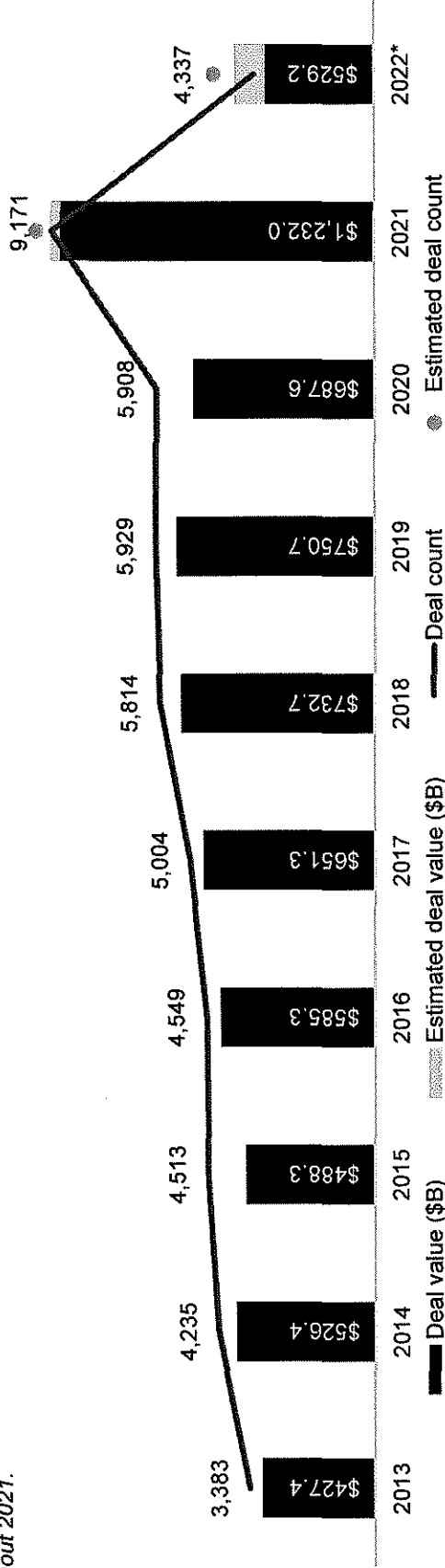
+ Relative value strategies were slightly positive over the period, led by volatility strategies.

- Corporate and sovereign fixed income strategies were the largest detractors.

Private Equity Market Update

U.S. Private Equity Deal Activity

U.S. Private Equity deal activity, while still high historically, moderated during the first half of the year relative to the frantic environment that consumed investors throughout 2021.



Source: Pitchbook. As of June 30, 2022.

Private Equity Performance (As of March 31, 2022)

Private equity performance was flat during the first quarter with US Growth and Venture modestly negative. Over the one-year and longer time periods, performance remains strong with dispersion between asset classes normalizing in recent quarters.

Benchmark	1-YR	3-YR	5-YR	10-Y	15-Y
US Private Equity	27.4%	26.6%	22.7%	17.9%	13.3%
US Buyout Index	27.1%	24.3%	21.0%	17.3%	12.6%
US Growth Equity Index	28.2%	33.8%	28.2%	20.3%	16.3%
US Venture Capital Index	26.6%	37.0%	28.0%	20.1%	14.6%
S&P 500 Index	15.6%	18.9%	16.0%	14.6%	10.3%

Source: Cambridge Associates. As of March 31, 2022. Returns presented as horizon pooled return, net of fees. S&P 500 Index as of March 31, 2022. Indices cannot be invested in directly.

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See disclosures for list of indices representing each asset class. Past performance does not indicate future performance and there is a possibility of a loss.

The Case for Diversification

2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	YTD	10 Years (Ann)
Emerging Markets 18.2	U.S. Small Cap 38.8	U.S. Equity REITs 30.1	U.S. Equity REITs 3.2	U.S. Small Cap 21.3	Emerging Markets 37.3	High Yield Munis 4.8	U.S. Large Cap 31.5	U.S. Small Cap 20.0	U.S. Equity REITs 43.2	Commodities 13.6	U.S. Large Cap 11.6
High Yield Munis 18.1	U.S. Large Cap 32.4	High Yield Munis 13.8	Municipals 5-Year 2.4	High Yield 17.1	International Dev 25.0	Municipals 5-Year 1.7	U.S. Equity REITs 26.0	U.S. Large Cap 18.4	Commodities 27.1	Hedge Funds -5.3	U.S. Small Cap 8.6
U.S. Equity REITs 18.1	International Dev 22.8	U.S. Large Cap 13.7	High Yield Munis 1.8	U.S. Large Cap 12.0	U.S. Large Cap 21.8	Foreign Bond 0.5	U.S. Small Cap 25.5	Emerging Markets 18.3	U.S. Large Cap 26.5	Municipals 5-Year -8.1	U.S. Equity REITs 6.3
International Dev 17.3	Balanced 12.2	Core Bond 8.8	U.S. Large Cap 1.4	Commodities 11.7	EM Debt (unhedged) 15.2	Core Bond 0.0	International Dev 22.5	TIPS 11.0	U.S. Small Cap 14.8	TIPS -13.6	Balanced 4.0
EM Debt (unhedged) 16.9	Hedge Funds 9.0	Balanced 5.1	Core Bond 0.6	Emerging Markets 11.2	U.S. Small Cap 14.6	TIPS -1.3	Emerging Markets 18.4	Balanced 8.8	International Dev 11.3	U.S. Core Bond -14.3	High Yield 3.9
U.S. Small Cap 16.3	High Yield 7.4	U.S. Small Cap 4.9	Hedge Funds -0.3	EM Debt (unhedged) 9.9	Balanced 13.8	High Yield -2.1	Balanced 17.5	International Dev 7.8	Balanced 5.8	High Yield -14.7	International Developed 3.7
U.S. Large Cap 16.0	U.S. Equity REITs 2.5	TIPS 3.6	International Dev -0.8	U.S. Equity REITs 8.5	High Yield Munis 9.7	Hedge Funds -4.0	High Yield 14.3	Core Bond 7.5	High Yield Munis 7.8	High Yield Munis -18.0	Hedge Funds 3.7
High Yield 15.8	Municipals 5-Year 0.8	Hedge Funds 3.4	TIPS -1.4	Balanced 7.6	Hedge Funds 7.8	U.S. Large Cap -4.4	EM Debt (unhedged) 13.5	Hedge Funds 7.1	TIPS 6.0	Foreign Bond -13.9	High Yield Municipal 3.5
Balanced 11.5	Foreign Bond -1.0	Municipals 5-Year 3.2	Foreign Bond -2.3	TIPS 4.7	High Yield 7.5	U.S. Equity REITs -4.6	High Yield Munis 10.7	High Yield 7.1	Hedge Funds 5.7	EM Debt (unhedged) -18.6	Municipals 5-Year 1.2
TIPS 7.0	Core Bond -2.0	Foreign Bond 2.9	Balanced -3.3	Foreign Bond 3.2	Foreign Bond 6.5	Balanced -5.8	Core Bond 8.7	Foreign Bond 7.0	High Yield 5.3	Balanced -20.0	Emerging Markets 1.0
Foreign Bond 5.3	Emerging Markets -2.6	High Yield 2.5	U.S. Small Cap -4.4	High Yield Munis 3.0	U.S. Equity REITs 5.2	EM Debt (unhedged) -6.2	TIPS 8.4	High Yield Munis 4.9	Municipals 5-Year 0.3	U.S. Large Cap -24.6	TIPS 1.0
Hedge Funds 4.3	High Yield Munis -5.5	Emerging Markets -2.2	High Yield -4.5	Core Bond 2.6	Core Bond 3.5	U.S. Small Cap -11.0	Hedge Funds 7.8	Municipals 5-Year 4.3	Core Bond -1.5	U.S. Small Cap -25.1	U.S. Core Bond 0.9
Core Bond 4.2	TIPS -8.6	International Dev -4.9	Emerging Markets -14.9	International Dev 1.0	Municipals 5-Year 3.1	Commodities -11.2	Commodities 7.7	EM Debt (unhedged) 2.7	Emerging Markets -2.5	International Developed -21.1	Foreign Bond -0.1
Municipals 5-Year 3.0	EM Debt (unhedged) -9.0	EM Debt (unhedged) -5.7	EM Debt (unhedged) -14.9	Hedge Funds 0.5	TIPS 3.0	International Dev -13.8	Foreign Bond 6.3	Commodities -9.1	Foreign Bond -4.2	Emerging Markets -27.2	Commodities -2.1
Commodities -1.1	Commodities -3.5	Commodities -17.0	Commodities -24.7	Municipals 5-Year -0.4	Commodities 1.7	Emerging Markets -14.6	Municipals 5-Year 5.4	U.S. Equity REITs -8.0	EM Debt (unhedged) -8.7	U.S. Equity REITs -28.1	EM Debt (unhedged) -2.4

Sources: Morningstar, FactSet. As of September 30, 2022. *Periods greater than one year are annualized. Total returns in U.S. dollars. Hedge Funds as of August 31, 2022.



Financial Markets Performance

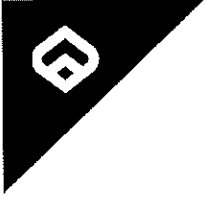
Total Return as of September 30, 2022
Periods greater than one year are annualized
All returns are in U.S. dollar terms

Global Fixed Income Markets	QTD	YTD	1YR	3YR	5YR	7YR	10YR	15YR
Bloomberg 1-3-Month T-Bill	0.5%	0.6%	0.6%	0.6%	1.1%	0.9%	0.6%	0.6%
Bloomberg U.S. TIPS	-5.1%	-13.6%	-11.6%	0.8%	2.0%	2.2%	1.0%	3.2%
Bloomberg Municipal Bond (5 Year)	-2.7%	-8.1%	-8.0%	-0.9%	0.5%	0.9%	1.2%	2.7%
Bloomberg High Yield Municipal Bond	-4.8%	-16.0%	-15.1%	-1.4%	2.3%	3.4%	3.5%	3.9%
Bloomberg U.S. Aggregate	-4.8%	-14.6%	-14.6%	-3.3%	-0.3%	0.5%	0.9%	2.7%
Bloomberg U.S. Corporate High Yield	-0.6%	-14.7%	-14.1%	-0.5%	1.6%	4.1%	3.9%	5.7%
Bloomberg Global Aggregate ex-U.S. Hedged	-2.2%	-9.9%	-9.9%	-3.0%	0.7%	1.5%	2.2%	3.1%
Bloomberg Global Aggregate ex-U.S. Unhedged	-8.8%	-23.9%	-24.8%	-7.8%	-4.0%	-1.7%	-2.4%	0.3%
Bloomberg U.S. Long Gov / Credit	-9.0%	-28.9%	-27.4%	-7.3%	-1.2%	1.0%	1.4%	4.4%
JPMorgan GBI-EM Global Diversified	-4.7%	-18.6%	-20.6%	-7.1%	-3.9%	0.4%	-2.4%	1.2%
Global Equity Markets	QTD	YTD	1YR	3YR	5YR	7YR	10YR	15YR
S&P 500	-4.9%	-23.9%	-15.5%	8.2%	9.2%	11.4%	11.7%	8.0%
Dow Jones Industrial Average	-6.2%	-19.7%	-13.4%	4.4%	7.4%	11.0%	10.5%	7.6%
NASDAQ Composite	-3.9%	-32.0%	-26.3%	10.6%	11.2%	13.7%	14.2%	10.7%
Russell 3000	-4.5%	-24.6%	-17.6%	7.7%	8.6%	10.9%	11.4%	7.9%
Russell 1000	-4.6%	-24.6%	-17.2%	7.9%	9.0%	11.2%	11.6%	8.0%
Russell 1000 Growth	-3.6%	-30.7%	-22.6%	10.7%	12.2%	13.7%	13.7%	10.1%
Russell 1000 Value	-5.6%	-17.8%	-11.4%	4.4%	5.3%	8.1%	9.2%	5.7%
Russell Mid Cap	-3.4%	-24.3%	-19.4%	5.2%	6.5%	8.8%	10.3%	7.5%
Russell Mid Cap Growth	-0.7%	-31.5%	-29.5%	4.3%	7.6%	9.5%	10.9%	8.0%
Russell Mid Cap Value	-4.9%	-20.4%	-13.6%	4.5%	4.8%	7.7%	9.4%	6.8%
Russell 2000	0.2%	-25.1%	-23.5%	4.3%	3.6%	7.5%	8.6%	6.4%
Russell 2000 Growth	-4.6%	-21.1%	-29.3%	2.9%	3.6%	7.1%	8.8%	6.8%
Russell 2000 Value	-6.8%	-25.6%	-17.7%	4.7%	2.9%	7.4%	7.9%	5.7%
MSCI ACWI	-9.9%	-26.5%	-20.7%	3.7%	4.4%	7.4%	7.3%	4.1%
MSCI ACWI ex. U.S.	-9.4%	-27.1%	-25.2%	-1.5%	-0.8%	3.3%	3.0%	0.6%
MSCI EAFE	-8.5%	-33.0%	-30.3%	-1.8%	-0.8%	2.8%	3.7%	0.6%
MSCI EAFE Growth	-10.2%	-21.1%	-20.2%	-1.5%	0.7%	3.9%	4.7%	1.6%
MSCI EAFE Value	-9.8%	-32.1%	-32.1%	-2.8%	-2.7%	1.4%	2.4%	-0.6%
MSCI Emerging Markets	-11.6%	-27.2%	-28.1%	-2.2%	-1.8%	3.2%	5.3%	2.4%
Alternatives	QTD	YTD	1YR	3YR	5YR	7YR	10YR	15YR
Consumer Price Index*	0.1%	5.5%	8.2%	4.9%	3.8%	3.1%	2.5%	2.4%
FTSE NAREIT Equity REITs	-9.9%	-16.1%	-16.4%	-2.0%	2.9%	4.9%	6.3%	4.9%
S&P Real Assets	-7.7%	-29.4%	-22.0%	0.4%	2.1%	4.0%	3.0%	3.6%
FTSE EPRA NAREIT Developed	-11.4%	-22.1%	-22.1%	-5.6%	0.1%	2.4%	3.8%	1.7%
FTSE EPRA NAREIT Developed ex U.S.	-13.6%	-31.0%	-29.6%	-9.5%	-3.1%	0.0%	1.3%	-0.7%
Bloomberg Commodity Total Return	-4.1%	13.6%	11.8%	13.5%	7.0%	4.5%	-2.1%	-2.4%
HFRI Fund of Funds Composite*	1.3%	-5.3%	-4.8%	4.6%	3.5%	3.1%	3.7%	2.0%
HFRI Fund Weighted Composite*	1.7%	-4.0%	-3.8%	6.9%	5.1%	5.1%	5.0%	3.9%
Alerian MLP	8.1%	18.9%	19.6%	4.5%	1.9%	2.6%	0.7%	4.9%

Sources: Morningstar, FactSet. As of September 30, 2022. *Consumer Price Index and HFRI indexes as of August 31, 2022.



OPEB Portfolio Review





Summary of Portfolio Activity – OPEB Plan

- In late July 2022, \$1,143,331 was contributed into the Town of Waterford OPEB plan. A four step dollar-cost-averaging strategy was employed to put the funds to work according to the target allocation:
 - Stage 1 occurred in early August, with \$280,000 being invested.
 - Stage 2 occurred in early September, with \$280,000 being invested.
 - Stage 3 occurred in early October, with \$280,000 being invested.
 - Stage 4 is earmarked for early November, with the remaining funds being invested.

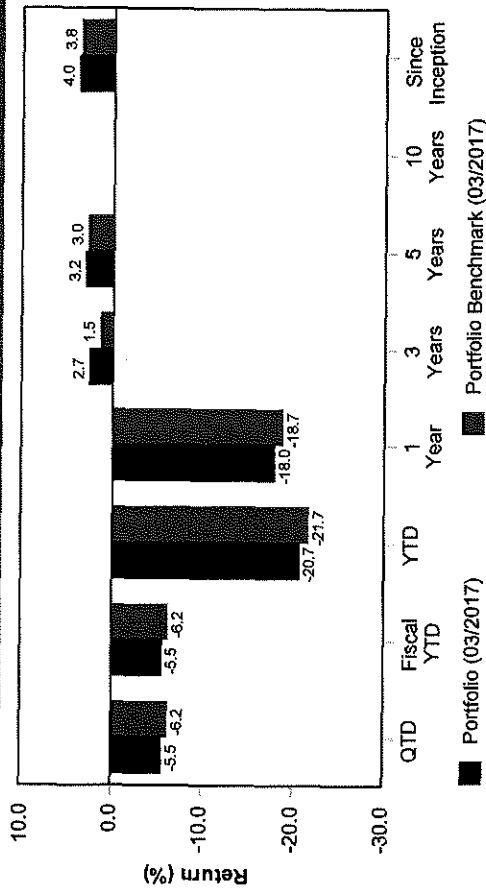
This is for illustration purposes only and is subject to change due to market conditions.



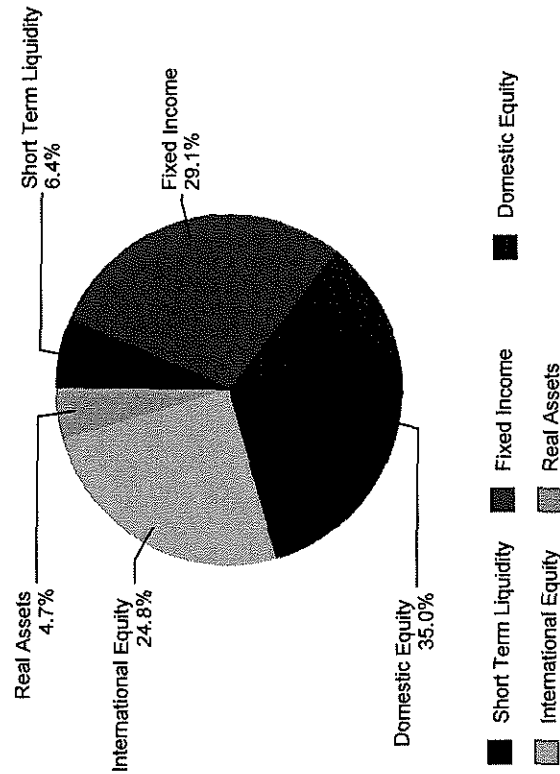
Portfolio Dashboard

Waterford OPEB

Historical Performance



Portfolio Allocation



Inception Date: 03/2017

As of September 30, 2022

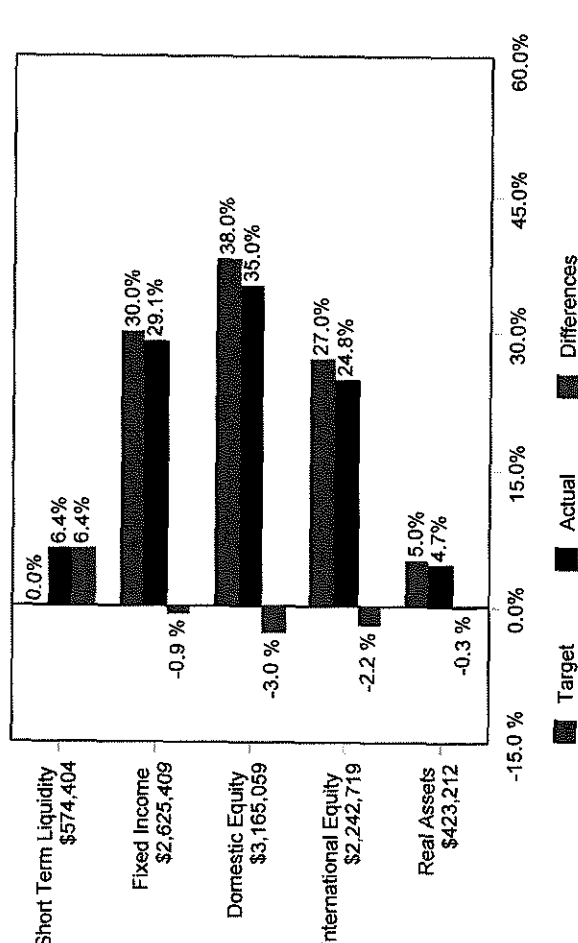
Summary of Cash Flows

	QTD	Fiscal YTD	YTD	1 Year	Since Inception
Beginning Market Value	8,456,127	8,456,127	10,071,789	9,743,913	1,164,759
Net Contributions	1,141,327	1,141,327	1,137,302	1,135,387	7,184,340
Gain/Loss	-566,651	-566,651	-2,178,288	-1,848,497	681,704
Ending Market Value	9,030,803	9,030,803	9,030,803	9,030,803	9,030,803

Current Benchmark Composition

From Date	To Date	Present
03/2022	Present	28.00% Bimbg. U.S. Aggregate, 2.00% Bimbg. Global Aggregate, 38.00% Dow Jones U.S. Total Stock Market Index, 27.00% MSCI AC World ex USA (Net), 5.00% Diversified Real Asset Blended Index

Actual vs. Target Allocations

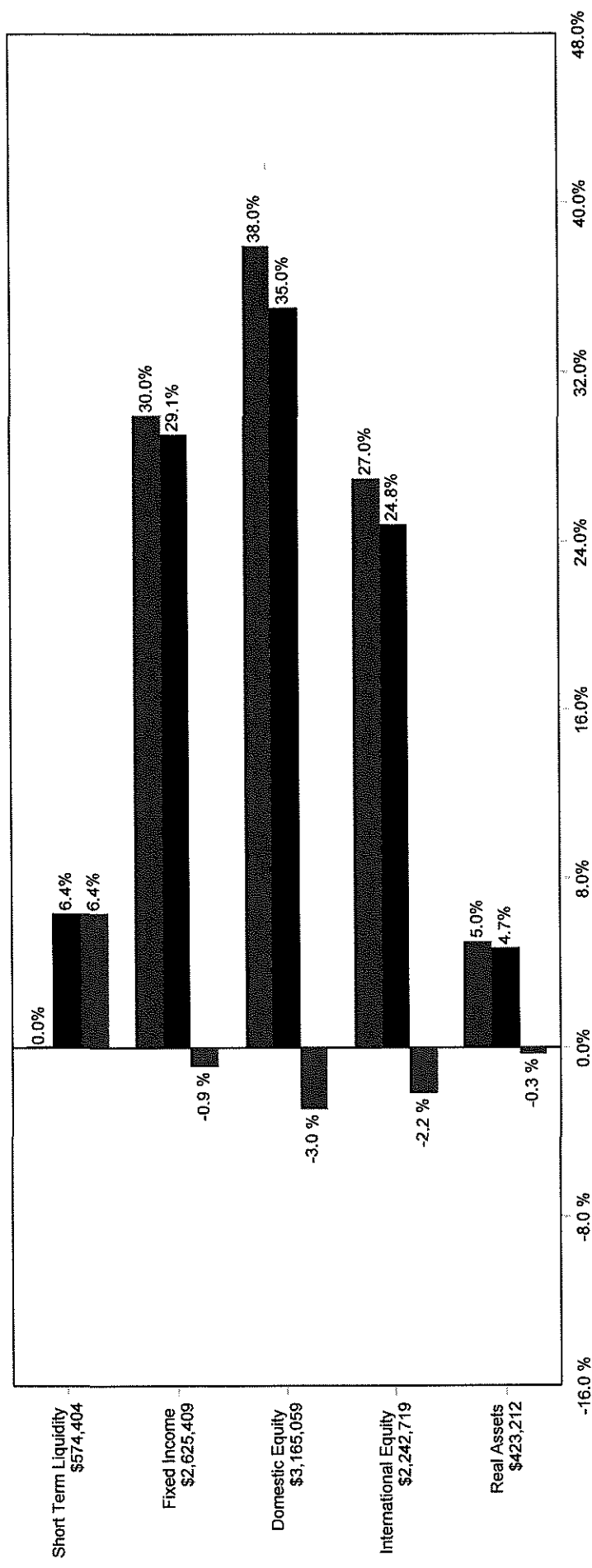


Asset Allocation

Waterford OPEB

As of September 30, 2022

Actual vs. Target



	Asset Allocation (\$)	Asset Allocation (%)	Target Allocation (%)	Differences (%)	Minimum Allocation (%)	Maximum Allocation (%)
Short Term Liquidity	574,404	6.4	0.0	6.4	0.0	10.0
Fixed Income	2,625,409	29.1	30.0	-0.9	15.0	45.0
Domestic Equity	3,165,059	35.0	38.0	-3.0	20.0	50.0
International Equity	2,242,719	24.8	27.0	-2.2	15.0	45.0
Real Assets	423,212	4.7	5.0	-0.3	0.0	10.0
Waterford OPEB	9,030,803	100.0	100.0	0.0		



Asset Allocation

Waterford OPEB

As of September 30, 2022

	Asset Allocation (\$)	Asset Allocation (%)	Target Allocation (%)	Differences (%)
Waterford OPEB	9,030,803	100.0	100.0	0.0
Short-Term Liquidity	574,404	6.4	0.0	6.4
Allspring Government Money Market Fund Instl	574,404	6.4	0.0	6.4
Fixed Income	2,625,409	29.1	30.0	-0.9
Baird Aggregate Bond Fund Class Institutional	689,831	7.6	8.0	-0.4
Metropolitan West Total Return Bond Pl	672,287	7.4	8.0	-0.6
BlackRock Strategic Income Opportunities Fund K	1,099,519	12.2	12.0	0.2
PGIM Global Total Return R6	163,772	1.8	2.0	-0.2
Domestic Equity	3,165,059	35.0	38.0	-3.0
Fidelity 500 Index Fund	2,246,163	24.9	27.0	-2.1
Fidelity Mid Cap Index	578,472	6.4	7.0	-0.6
Hotchkis & Wiley Small Cap Diversified Value I	171,504	1.9	2.0	-0.1
Conestoga Small Cap Instl	168,920	1.9	2.0	-0.1
International Equity	2,242,719	24.8	27.0	-2.2
Dodge & Cox International Stock Fund	993,299	11.0	12.0	-1.0
American Funds EuroPacific Growth R6	986,564	10.9	12.0	-1.1
Baron Emerging Markets Fund Instl	262,855	2.9	3.0	-0.1
Real Assets	423,212	4.7	5.0	-0.3
Principal Diversified Real Asset R6	423,212	4.7	5.0	-0.3

Performance Overview

Waterford OPEB

As of September 30, 2022

Trailing Performance Summary

	QTD	Fiscal YTD	YTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	Inception Date
Waterford OPEB	-5.5	-5.5	-20.7	-18.0	2.7	3.2	-	-	4.0	03/2017
OPEB Blended Benchmark	-6.2	-6.2	-21.7	-18.7	1.5	3.0	-	-	3.8	03/2017

Calendar Year Performance Summary

	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Waterford OPEB	9.3	17.8	19.8	-7.2	-	-	-	-	-	-
OPEB Blended Benchmark	11.0	13.9	20.1	-5.8	-	-	-	-	-	-

Plan Reconciliation

	QTD	Fiscal YTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
Waterford OPEB									03/2017
Beginning Market Value	8,456,127	8,456,127	10,071,789	9,743,913	5,439,376	2,426,577	-	1,164,759	
Net Contributions	1,141,327	1,141,327	1,137,302	1,135,387	3,378,968	6,030,936	-	7,184,340	
Gain/Loss	-566,651	-566,651	-2,178,288	-1,848,497	212,460	573,290	-	681,704	
Ending Market Value	9,030,803	9,030,803	9,030,803	9,030,803	9,030,803	9,030,803	-	9,030,803	

Benchmark Composition

	Weight (%)
Mar-2022	
90 Day U.S. Treasury Bill	0.0
Blimbg. U.S. Aggregate	28.0
Blimbg. Global Aggregate	2.0
Dow Jones U.S. Total Stock Market Index	38.0
MSCI AC World ex USA (Net)	27.0
Diversified Real Asset Blended Index	5.0



Manager Status Commentary

Waterford - Combined

As of September 30, 2022

Manager	Recommendation	Comments
Baird Aggregate Bond Fund Class Institutional	Maintain	
Metropolitan West Total Return Bond PI	Maintain	
BlackRock Strategic Income Opportunities Fund K	Discuss 3Q 2022	BlackRock Strategic Income Opportunities was placed on Discuss in October 2022. BlackRock announced that Bob Miller, one of the portfolio managers on the strategy, will be retiring at the end of March 2023. Rick Rieder, CIO of Global Fixed Income, and David Rogal will remain as portfolio managers on the strategy. In addition, Russ Brownback has been named a portfolio manager alongside Mr. Rieder and Mr. Rogal.
PGIM Global Total Return R6	Watch 3Q 2022	CIO, Gregory Peters was added to the strategy as named PM amid severe underperformance. Within the context of the severe relative underperformance this gives us pause as it fundamentally changes the decision-making process for the team amid compensation in jeopardy. Considering their Russia/Ukraine positions are not able to be traded, and the relatively neutral current duration positioning, the portfolio will likely need to add risk to participate in more upside when the market rallies. However, the dynamic risk budget and ability to position the portfolio tactically are not a competitive advantage for the strategy. For these reasons, the strategy is placed on Watch status.
Fidelity Total Market Index Fund	Maintain	
Fidelity 500 Index Fund	Maintain	
Fidelity Mid Cap Index	Maintain	
Hotchkiss & Wiley Small Cap Diversified Value I	Maintain	
Conestoga Small Cap Instl	Maintain	
Dodge & Cox International Stock Fund	Maintain	
American Funds EuroPacific Growth R6	Maintain	
Baron Emerging Markets Fund Instl	Maintain	
Principal Diversified Real Asset R6	Maintain	

Commentary produced upon change of status.



Manager Performance

Waterford OPEB

As of September 30, 2022

	Allocation		Performance(%)								Manager Status
	Market Value (\$)	%	QTD	Fiscal YTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	
Waterford OPEB	9,030,803	100.0	-5.5	-5.5	-20.7	-18.0	2.7	3.2	-	4.0	03/2017
OPEB Blended Benchmark			-6.2	-6.2	-21.7	-18.7	1.5	3.0	-	3.8	
Short Term Liquidity	574,404	6.4	0.5	0.5	0.6	0.6	0.5	1.0	-	1.0	03/2017
90 Day U.S. Treasury Bill			0.5	0.5	0.6	0.6	0.6	1.1	0.7	1.1	
Allspring Government Money Market Fund Instl	574,404	6.4	0.5	0.5	0.6	0.6	0.5	1.0	-	1.0	03/2017
90 Day U.S. Treasury Bill			0.5	0.5	0.6	0.6	0.6	1.1	0.7	1.1	
Fixed Income	2,625,409	29.1	-3.8	-3.8	-13.2	-13.3	-1.8	0.4	-	0.7	03/2017
Fixed Income Benchmark			-4.9	-4.9	-15.0	-15.0	-3.4	-0.4	-	0.1	
Baird Aggregate Bond Fund Class Institutional	689,831	7.6	-4.7	-4.7	-15.2	-15.3	-3.1	-0.1	1.4	-9.2	04/2021
Bimbg. U.S. Aggregate Index			-4.8	-4.8	-14.6	-14.6	-3.3	-0.3	0.9	-8.9	
IM U.S. Broad Market Core Fixed Income (MF) Median			-4.7	-4.7	-15.2	-15.3	-3.2	-0.3	0.9	-9.3	
Baird Aggregate Bond Fund Class Institutional Rank			50	50	51	49	39	28	13	45	
Metropolitan West Total Return Bond PI	672,287	7.4	-5.2	-5.2	-16.2	-16.3	-3.2	-0.1	1.3	0.3	03/2017
Bimbg. U.S. Aggregate Index			-4.8	-4.8	-14.6	-14.6	-3.3	-0.3	0.9	0.2	
IM U.S. Broad Market Core+ Fixed Income (MF) Median			-4.4	-4.4	-15.3	-15.4	-2.9	-0.2	1.1	0.3	
Metropolitan West Total Return Bond PI Rank			88	88	72	70	66	44	34	52	
BlackRock Strategic Income Opportunities Fund K	1,099,519	12.2	-1.8	-1.8	-7.1	-7.3	0.8	1.7	2.4	1.9	06/2018
Bimbg. U.S. Aggregate Index			-4.8	-4.8	-14.6	-14.6	-3.3	-0.3	0.9	-0.1	
IM Alternative Credit Focus (MF) Median			-1.5	-1.5	-9.0	-9.6	0.2	0.6	1.3	0.6	
BlackRock Strategic Income Opportunities Fund K Rank			69	69	43	32	35	29	12	26	
PGIM Global Total Return R6	163,772	1.8	-7.5	-7.5	-26.6	-27.2	-8.4	-3.0	0.0	-18.0	04/2021
Bimbg. Global Aggregate			-6.9	-6.9	-19.9	-20.4	-5.7	-2.3	-0.9	-13.9	
IM Global Fixed Income (MF) Median			-4.1	-4.1	-17.4	-17.6	-4.6	-1.1	-0.3	-11.3	
PGIM Global Total Return R6 Rank			90	90	98	98	98	83	45	97	

Manager performance for mutual funds and ETFs is based on NAV and provided by Lipper. Performance for non-mutual fund or ETF investments is based on the returns provided by managers. Calculations based on a manager statement, or calculations based on a statement or data from the client's custodian. Funds may include returns of an equivalent share class with a longer return history if period includes dates prior to the fund's inception. Returns are net of fees unless otherwise stated. The fund's inception date represents the first month the client made the investment. Composite performance includes all funds held in the composite since inception. Inception dates for asset class composites reflect the start date at which these returns could be calculated using historical and existing system capabilities and may vary from the inception dates of underlying component strategies.

Manager Performance

Waterford OPEB

As of September 30, 2022

	Allocation		Performance(%)								Manager Status
	Market Value (\$)	%	QTD	Fiscal YTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	
Domestic Equity	3,165,059	35.0	-4.6	-4.6	-24.0	-16.7	8.2	8.9	-	9.4	03/2017
Dow Jones U.S. Total Stock Market Index			-4.6	-4.6	-24.9	-18.1	7.5	8.5	11.3	9.0	
Fidelity 500 Index Fund	2,246,163	24.9	-4.9	-4.9	-23.9	-15.5	8.1	9.2	11.7	-5.2	04/2021
S&P 500 Index			-4.9	-4.9	-23.9	-15.5	8.2	9.2	11.7	-5.2	
IM U.S. Large Cap Core Equity (MF) Median			-5.2	-5.2	-24.5	-17.1	7.2	8.4	10.8	-6.7	
Fidelity 500 Index Fund Rank			42	42	40	31	24	26	15	28	
Fidelity Mid Cap Index	578,472	6.4	-3.4	-3.4	-24.3	-19.4	5.2	6.5	10.3	-9.7	04/2021
Russell Midcap Index			-3.4	-3.4	-24.3	-19.4	5.2	6.5	10.3	-9.7	
IM U.S. Mid Cap Core Equity (MF) Median			-4.3	-4.3	-20.8	-14.1	4.7	5.3	8.8	-7.0	
Fidelity Mid Cap Index Rank			31	31	89	90	42	22	16	81	
Hotchkis & Wiley Small Cap Diversified Value I	171,504	1.9	-5.3	-5.3	-17.8	-13.0	6.9	4.1	-	-7.4	04/2021
Russell 2000 Value Index			-4.6	-4.6	-21.1	-17.7	4.7	2.9	7.9	-11.3	
IM U.S. Small Cap Value Equity (MF) Median			-5.4	-5.4	-19.9	-15.2	5.8	3.2	7.8	-8.5	
Hotchkis & Wiley Small Cap Diversified Value I Rank			49	49	25	26	35	30	-	34	
Conestoga Small Cap Instl	168,920	1.9	-4.2	-4.2	-32.0	-28.6	2.9	6.2	11.2	-16.1	04/2021
Russell 2000 Growth Index			0.2	0.2	-29.3	-29.3	2.9	3.6	8.8	-21.7	
IM U.S. Small Cap Growth Equity (MF) Median			-1.4	-1.4	-30.4	-29.1	4.7	5.9	9.3	-18.5	
Conestoga Small Cap Instl Rank			87	87	67	43	79	48	12	30	
International Equity	2,242,719	24.8	-10.2	-10.2	-26.5	-26.4	1.0	1.1	-	4.2	03/2017
MSCI AC World ex USA (Net)			-9.9	-9.9	-26.5	-25.2	-1.5	-0.8	3.0	1.8	
Dodge & Cox International Stock Fund	993,299	11.0	-10.7	-10.7	-19.6	-17.7	0.2	-1.5	4.2	-11.5	04/2021
MSCI AC World ex USA Value (Net)			-10.4	-10.4	-21.0	-20.0	-2.1	-2.1	1.9	-12.7	
IM International Large Cap Value Equity (MF) Median			-10.7	-10.7	-24.4	-22.6	-2.0	-2.4	2.3	-15.6	
Dodge & Cox International Stock Fund Rank			50	50	5	5	7	19	5	9	

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Manager Performance

Waterford OPEB

As of September 30, 2022

	Allocation		Performance(%)								Manager Status	
	Market Value (\$)	%	QTD	Fiscal YTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception		Inception Date
American Funds EuroPacific Growth R6	986,564	10.9	-9.3	-9.3	-32.1	-32.9	-1.2	-0.2	4.5	3.0	03/2017	Maintain
MSCI AC World ex USA (Net)			-9.9	-9.9	-26.5	-25.2	-1.5	-0.8	3.0	1.8		
IM International Large Cap Core Equity (MF) Median			-10.2	-10.2	-27.7	-25.4	-1.8	-1.4	3.0	1.5		
American Funds EuroPacific Growth R6 Rank			27	27	92	100	44	18	1	10		
Baron Emerging Markets Fund Instl	262,855	2.9	-11.3	-11.3	-31.7	-34.5	-3.2	-3.1	2.5	-25.5	04/2021	Maintain
MSCI Emerging Markets Growth (Net)			-12.1	-12.1	-30.6	-32.1	-1.7	-1.6	2.4	-26.4		
IM Emerging Markets Equity (MF) Median			-11.0	-11.0	-29.3	-29.9	-2.5	-2.4	0.9	-23.3		
Baron Emerging Markets Fund Instl Rank			57	57	69	77	61	67	20	69		
Real Assets	423,212	4.7	-8.2	-8.2	-12.6	-8.5	3.7	-	-	3.7	10/2019	
Diversified Real Asset Blended Index			-7.9	-7.9	-12.2	-8.8	2.6	2.7	1.9	2.6		
Principal Diversified Real Asset R6	423,212	4.7	-8.2	-8.2	-12.6	-8.5	3.7	3.0	-	3.7	10/2019	Maintain
Diversified Real Asset Blended Index			-7.9	-7.9	-12.2	-8.8	2.6	2.7	1.9	2.6		

Manager performance for mutual funds and ETFs is based on NAV and provided by Lipper. Performance for non-mutual fund or ETF investments is based on the returns provided by managers. Calculations based on a statement of data from the client's custodian. Funds may include returns of an equivalent share class with a longer return history if period includes dates prior to the fund's inception. Returns are net of fees unless otherwise stated. The fund's inception date represents the first month the client made the investment. Composite performance includes all funds held in the composite since inception. Inception dates for asset class composites reflect the start date at which these returns could be calculated using historical and existing system capabilities and may vary from the inception dates of underlying component strategies.



Calendar Year Performance

Waterford OPEB

As of September 30, 2022

	Performance (%)										
	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2012
Waterford OPEB	9.3	17.8	19.8	-7.2	-	-	-	-	-	-	-
OPEB Blended Benchmark	11.0	13.9	20.1	-5.8	-	-	-	-	-	-	-
Short Term Liquidity	0.0	0.4	2.2	1.7	-	-	-	-	-	-	-
90 Day U.S. Treasury Bill	0.0	0.7	2.3	1.9	0.9	0.3	0.0	0.0	0.0	0.0	0.1
Allspring Government Money Market Fund Instl	0.0	0.4	2.2	1.7	-	-	-	-	-	-	-
90 Day U.S. Treasury Bill	0.0	0.7	2.3	1.9	0.9	0.3	0.0	0.0	0.0	0.0	0.1
Fixed Income	-0.6	8.9	8.9	-0.5	-	-	-	-	-	-	-
Fixed Income Benchmark	-1.7	7.5	8.7	0.0	-	-	-	-	-	-	-
Baird Aggregate Bond Fund Class Institutional	-1.5	8.6	9.5	-0.3	4.2	3.5	0.6	6.9	-1.3	7.9	7.9
Bimbg. U.S. Aggregate Index	-1.5	7.5	8.7	0.0	3.5	2.6	0.5	6.0	-2.0	4.2	4.2
IM U.S. Broad Market Core Fixed Income (MF) Median	-1.3	8.2	8.8	-0.6	3.6	2.9	0.0	5.5	-2.0	6.0	6.0
Baird Aggregate Bond Fund Class Institutional Rank	58	37	27	32	22	33	19	8	24	17	17
Metropolitan West Total Return Bond PI	-1.1	9.2	9.2	0.3	3.5	2.6	0.2	6.2	0.4	11.6	11.6
Bimbg. U.S. Aggregate Index	-1.5	7.5	8.7	0.0	3.5	2.6	0.5	6.0	-2.0	4.2	4.2
IM U.S. Broad Market Core+ Fixed Income (MF) Median	-0.9	8.6	9.3	-1.0	4.5	4.0	-0.3	5.1	-1.1	8.2	8.2
Metropolitan West Total Return Bond PI Rank	59	37	54	11	79	86	25	24	16	7	7
BlackRock Strategic Income Opportunities Fund K	1.0	7.3	7.8	-0.5	5.0	3.6	-0.6	3.6	3.0	9.6	9.6
Bimbg. U.S. Aggregate Index	-1.5	7.5	8.7	0.0	3.5	2.6	0.5	6.0	-2.0	4.2	4.2
IM Alternative Credit Focus (MF) Median	1.9	3.9	7.3	-1.9	4.5	4.9	-1.6	1.0	-0.1	9.2	9.2
BlackRock Strategic Income Opportunities Fund K Rank	58	17	43	29	43	64	25	21	31	44	44
PGIM Global Total Return R6	-5.7	10.1	12.3	-1.6	13.6	2.7	-3.2	5.5	-1.9	13.2	13.2
Bimbg. Global Aggregate	-4.7	9.2	6.8	-1.2	7.4	2.1	-3.2	0.6	-2.6	4.3	4.3
IM Global Fixed Income (MF) Median	-2.7	8.2	8.1	-1.8	6.8	2.9	-3.8	1.9	-2.5	7.3	7.3
PGIM Global Total Return R6 Rank	88	22	6	45	1	52	41	21	42	7	7
Domestic Equity	26.4	20.8	30.9	-5.2	-	-	-	-	-	-	-
Dow Jones U.S. Total Stock Market Index	25.7	20.8	30.9	-5.3	21.2	12.6	0.4	12.5	33.5	16.4	16.4
Fidelity 500 Index Fund	28.7	18.4	31.5	-4.4	21.8	12.0	1.4	13.7	32.4	16.0	16.0
S&P 500 Index	28.7	18.4	31.5	-4.4	21.8	12.0	1.4	13.7	32.4	16.0	16.0
IM U.S. Large Cap Core Equity (MF) Median	26.9	18.4	30.6	-5.4	21.4	9.7	0.5	11.5	31.8	15.4	15.4
Fidelity 500 Index Fund Rank	26	50	37	32	45	20	35	18	38	41	41



Calendar Year Performance

Waterford OPEB

As of September 30, 2022

	Performance(%)										
	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2012
Fidelity Mid Cap Index	22.6	17.1	30.5	-9.0	18.5	13.9	-2.4	13.1	34.8	17.2	
<i>Russell Midcap Index</i>	22.6	17.1	30.5	-9.1	18.5	13.8	-2.4	13.2	34.8	17.3	
IM U.S. Mid Cap Core Equity (MF) Median	25.7	8.4	28.6	-11.6	14.9	14.5	-3.7	8.9	34.5	15.9	
Fidelity Mid Cap Index Rank	69	17	32	20	26	55	31	10	49	34	
Hotchkis & Wiley Small Cap Diversified Value I	35.3	1.3	21.7	-14.3	13.8	34.0	-9.0	-	-	-	
<i>Russell 2000 Value Index</i>	28.3	4.6	22.4	-12.9	7.8	31.7	-7.5	4.2	34.5	18.1	
IM U.S. Small Cap Value Equity (MF) Median	32.0	3.6	21.1	-16.1	8.5	26.7	-7.0	3.4	36.5	16.2	
Hotchkis & Wiley Small Cap Diversified Value I Rank	34	66	37	38	12	7	71	-	-	-	
Conestoga Small Cap Instl	16.4	30.6	25.4	0.8	28.7	14.3	8.3	-8.0	49.3	11.0	
<i>Russell 2000 Growth Index</i>	2.8	34.6	28.5	-9.3	22.2	11.3	-1.4	5.6	43.3	14.6	
IM U.S. Small Cap Growth Equity (MF) Median	10.5	36.5	27.7	-5.6	20.7	10.1	-2.4	2.8	42.5	13.6	
Conestoga Small Cap Instl Rank	27	64	63	12	14	24	2	98	11	74	
International Equity	1.6	25.3	27.4	-14.9	-	-	-	-	-	-	
<i>MSCI AC World ex USA (Net)</i>	7.8	10.7	21.5	-14.2	27.2	4.5	-5.7	-3.9	15.3	16.8	
Dodge & Cox International Stock Fund	11.0	2.1	22.8	-18.0	23.9	8.3	-11.4	0.1	26.3	21.0	
<i>MSCI AC World ex USA Value (Net)</i>	10.5	-0.8	15.7	-14.0	22.7	8.9	-10.1	-5.1	15.0	17.0	
IM International Large Cap Value Equity (MF) Median	13.2	4.1	19.0	-16.7	22.9	1.3	-1.8	-7.0	21.8	18.5	
Dodge & Cox International Stock Fund Rank	59	75	6	80	34	1	89	9	7	21	
American Funds EuroPacific Growth R6	2.8	25.3	27.4	-14.9	31.2	1.0	-0.5	-2.3	20.6	19.6	
<i>MSCI AC World ex USA (Net)</i>	7.8	10.7	21.5	-14.2	27.2	4.5	-5.7	-3.9	15.3	16.8	
IM International Large Cap Core Equity (MF) Median	10.7	9.1	22.1	-15.0	25.0	0.0	-1.9	-6.0	20.4	18.0	
American Funds EuroPacific Growth R6 Rank	96	1	4	49	10	37	22	11	46	34	
Baron Emerging Markets Fund Instl	-6.1	29.2	18.9	-18.5	40.6	4.1	-11.0	3.7	15.0	23.2	
<i>MSCI Emerging Markets Growth (Net)</i>	-8.4	31.3	25.1	-18.3	46.8	7.6	-11.3	-0.3	-0.2	20.6	
IM Emerging Markets Equity (MF) Median	-1.6	17.7	20.1	-16.5	35.7	8.3	-13.7	-3.0	-1.5	18.8	
Baron Emerging Markets Fund Instl Rank	77	19	60	70	24	75	32	7	5	15	
Real Assets	17.4	3.9	-	-	-	-	-	-	-	-	
<i>Diversified Real Asset Blended Index</i>	15.9	2.1	14.9	-7.3	10.4	12.4	-11.7	0.2	-1.2	8.7	
Principal Diversified Real Asset R6	17.4	3.9	15.1	-7.8	10.2	5.9	-12.4	-	-	-	
<i>Diversified Real Asset Blended Index</i>	15.9	2.1	14.9	-7.3	10.4	12.4	-11.7	0.2	-1.2	8.7	



Investment Gain/Loss Summary

Waterford OPEB

1 Quarter Ending September 30, 2022

	Market Value as of 07/01/2022	Net Contributions	Gain/Loss	Market Value As of 09/30/2022
Waterford OPEB	8,456,127	1,141,327	-566,651	9,030,803
Short Term Liquidity	1,711	581,327	-8,634	574,404
Allspring Government Money Market Fund Instl	1,711	581,327	-8,634	574,404
Fixed Income	2,700,044	30,000	-104,635	2,625,409
Baird Aggregate Bond Fund Class Institutional	713,736	10,000	-33,905	689,831
Metropolitan West Total Return Bond PI	709,310	-	-37,023	672,287
BlackRock Strategic Income Opportunities Fund K	1,119,431	-	-19,912	1,099,519
PGIM Global Total Return R6	157,567	20,000	-13,795	163,772
Domestic Equity	3,135,534	190,000	-160,475	3,165,059
Fidelity 500 Index Fund	2,236,037	130,000	-119,875	2,246,163
Fidelity Mid Cap Index	570,349	30,000	-21,877	578,472
Hotchkis & Wiley Small Cap Diversified Value I	166,487	15,000	-9,983	171,504
Conestoga Small Cap Instl	162,660	15,000	-8,740	168,920
International Equity	2,157,801	340,000	-255,082	2,242,719
Dodge & Cox International Stock Fund	995,996	115,000	-117,697	993,299
American Funds EuroPacific Growth R6	931,580	160,000	-105,016	986,564
Baron Emerging Markets Fund Instl	230,225	65,000	-32,369	262,855
Real Assets	461,037	-	-37,825	423,212
Principal Diversified Real Asset R6	461,037	-	-37,825	423,212

Cash activity may include management fees.

Estimated Fee Analysis

Waterford OPEB

As of September 30, 2022

	Market Value (\$)	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
Waterford OPEB	9,030,803	32,039	0.35
Short Term Liquidity	574,404	-	-
Allspring Government Money Market Fund Instl	574,404	-	-
Fixed Income	2,525,409	11,829	0.45
Baird Aggregate Bond Fund Class Institutional	689,831	2,069	0.30
Metropolitan West Total Return Bond PI	672,287	2,420	0.36
BlackRock Strategic Income Opportunities Fund K	1,099,519	6,487	0.59
PGIM Global Total Return R6	163,772	852	0.52
Domestic Equity	3,165,059	3,374	0.11
Fidelity 500 Index Fund	2,246,163	337	0.02
Fidelity Mid Cap Index	578,472	145	0.03
Hotchkis & Wiley Small Cap Diversified Value I	171,504	1,372	0.80
Conestoga Small Cap Instl	168,920	1,520	0.90
International Equity	2,242,719	13,535	0.60
Dodge & Cox International Stock Fund	993,299	6,158	0.62
American Funds EuroPacific Growth R6	986,564	4,538	0.46
Baron Emerging Markets Fund Instl	262,855	2,839	1.08
Real Assets	423,212	3,301	0.78
Principal Diversified Real Asset R6	423,212	3,301	0.78

The figures on this page have been obtained from sources we deem to be reliable. Fiducient Advisors has not independently verified this information.

Fee calculations for mutual funds represent fees at the net expense level. Fee calculations for commingled funds and/or alternative investments reflect base management fees and exclude underlying fund expenses captured at the NAV level, any applicable performance-based fees, or incentive fees. Fees for fund of funds are shown at the fund of funds level and do not include fees charged by underlying investment managers/funds.



Pension Portfolio Review

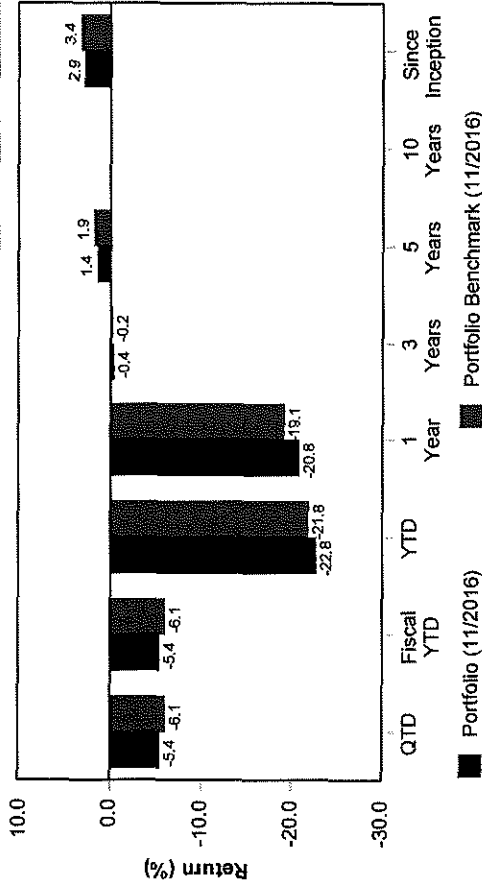


Portfolio Dashboard

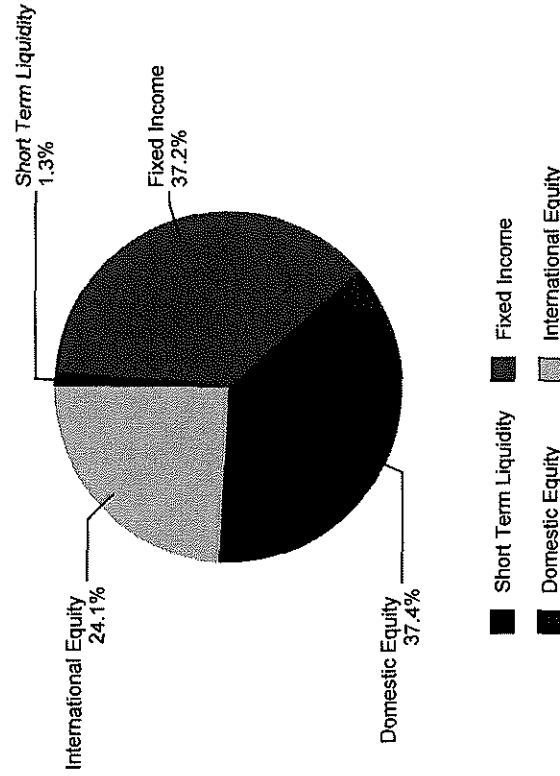
Waterford Pension

As of September 30, 2022

Historical Performance



Portfolio Allocation



Inception Date: 11/2016

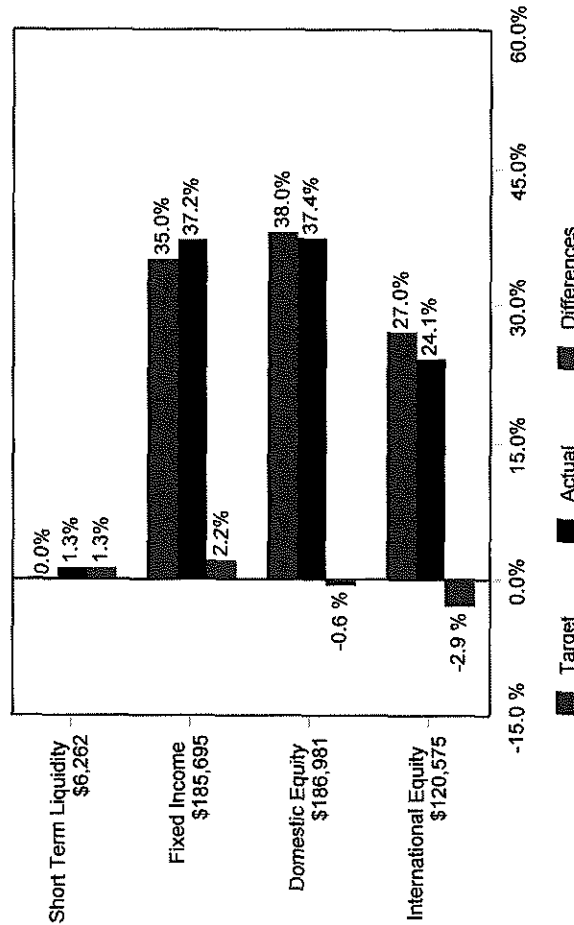
Summary of Cash Flows

	QTD	Fiscal YTD	YTD	1 Year	Since Inception
Beginning Market Value	524,090	524,090	691,378	695,980	564,680
Net Contributions	4,949	4,949	-39,655	-62,054	-164,006
Gain/Loss	-29,526	-29,526	-152,209	-134,413	98,839
Ending Market Value	499,513	499,513	499,513	499,513	499,513

Current Benchmark Composition

From Date	To Date	Present
03/2022	Present	35.00% Pension Fixed Income Benchmark, 38.00% Dow Jones U.S. Total Stock Market Index, 27.00% MSCI AC World ex USA (Net)

Actual vs. Target Allocations

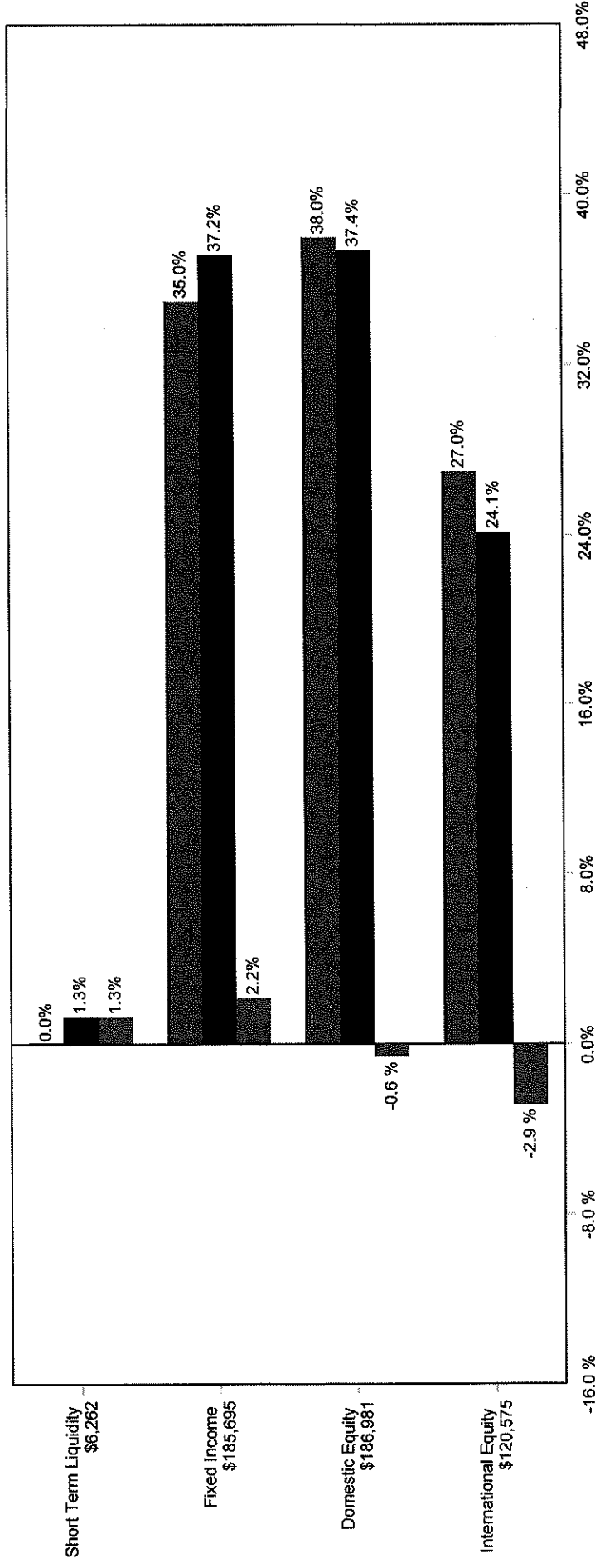


Asset Allocation

Waterford Pension

As of September 30, 2022

Actual vs. Target





Asset Allocation

Waterford Pension

As of September 30, 2022

	Asset Allocation (\$)	Asset Allocation (%)	Target Allocation (%)	Differences (%)
Waterford Pension	499,513	100.0	100.0	0.0
Short-Term Liquidity	6,262	1.3	0.0	1.3
Allspring Government Money Market Fund Instl	6,262	1.3	0.0	1.3
Fixed Income	185,695	37.2	35.0	2.2
Baird Aggregate Bond Fund Class Institutional	51,096	10.2	9.5	0.7
Metropolitan West Total Return Bond PI	50,244	10.1	9.5	0.6
BlackRock Strategic Income Opportunities Fund K	72,852	14.6	13.5	1.1
PGIM Global Total Return R6	11,503	2.3	2.5	-0.2
Domestic Equity	186,981	37.4	38.0	-0.6
Fidelity Total Market Index Fund	186,981	37.4	38.0	-0.6
International Equity	120,575	24.1	27.0	-2.9
American Funds EuroPacific Growth R6	120,575	24.1	27.0	-2.9



Performance Overview

Waterford Pension

As of September 30, 2022

Trailing Performance Summary

	QTD	Fiscal YTD	YTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	Inception Date
Waterford Pension	-5.4	-5.4	-22.8	-20.8	-0.4	1.4	-	-	2.9	11/2016
Pension Blended Benchmark	-6.1	-6.1	-21.8	-19.1	-0.2	1.9	-	-	3.4	11/2016

Calendar Year Performance Summary

	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Waterford Pension	6.4	14.8	16.8	-5.3	13.0	-	-	-	-	-
Pension Blended Benchmark	8.0	12.7	17.7	-4.7	13.5	-	-	-	-	-

Plan Reconciliation

	QTD	Fiscal YTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
Waterford Pension									11/2016
Beginning Market Value	524,090	524,090	691,378	695,980	557,647	553,262	-	564,680	
Net Contributions	4,949	4,949	-39,655	-62,054	-56,677	-96,486	-	-164,006	
Gain/Loss	-29,526	-29,526	-152,209	-134,413	-1,457	42,737	-	98,839	
Ending Market Value	499,513	499,513	499,513	499,513	499,513	499,513	-	499,513	

Benchmark Composition

	Weight (%)
Mar-2022	
90 Day U.S. Treasury Bill	0.0
Pension Fixed Income Benchmark	35.0
Dow Jones U.S. Total Stock Market Index	38.0
MSCI AC World ex USA (Net)	27.0



Manager Performance

Waterford Pension

As of September 30, 2022

	Allocation		Performance(%)								Manager Status
	Market Value (\$)	%	QTD	Fiscal YTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	
Waterford Pension	499,513	100.0	-5.4	-5.4	-22.8	-20.8	-0.4	1.4	-	2.9	11/2016
Pension Blended Benchmark			-6.1	-6.1	-21.8	-19.1	-0.2	1.9	-	3.4	
Short Term Liquidity	6,262	1.3	0.5	0.5	0.6	0.6	0.5	1.0	-	0.9	11/2016
90 Day U.S. Treasury Bill			0.5	0.5	0.6	0.6	0.6	1.1	0.7	1.1	
Allspring Government Money Market Fund Instl	6,262	1.3	0.5	0.5	0.6	0.6	0.5	1.0	-	0.9	11/2016
90 Day U.S. Treasury Bill			0.5	0.5	0.6	0.6	0.6	1.1	0.7	1.1	
Fixed Income	185,695	37.2	-3.9	-3.9	-13.4	-13.5	-2.0	0.3	-	0.4	11/2016
Fixed Income Benchmark			-4.9	-4.9	-15.0	-15.0	-3.4	-0.4	-	-0.2	
Baird Aggregate Bond Fund Class Institutional	51,096	10.2	-4.7	-4.7	-15.2	-15.3	-3.1	-0.1	1.4	-9.2	04/2021
Bimbg. U.S. Aggregate Index			-4.8	-4.8	-14.6	-14.6	-3.3	-0.3	0.9	-8.9	
IM U.S. Broad Market Core Fixed Income (MF) Median			-4.7	-4.7	-15.2	-15.3	-3.2	-0.3	0.9	-9.3	
Baird Aggregate Bond Fund Class Institutional Rank			50	50	51	49	39	28	13	45	
Metropolitan West Total Return Bond PI	50,244	10.1	-5.2	-5.2	-16.2	-16.3	-3.2	-0.1	1.3	0.1	11/2016
Bimbg. U.S. Aggregate Index			-4.8	-4.8	-14.6	-14.6	-3.3	-0.3	0.9	-0.1	
IM U.S. Broad Market Core+ Fixed Income (MF) Median			-4.4	-4.4	-15.3	-15.4	-2.9	-0.2	1.1	0.2	
Metropolitan West Total Return Bond PI Rank			88	88	72	70	66	44	34	59	
BlackRock Strategic Income Opportunities Fund K	72,852	14.6	-1.8	-1.8	-7.1	-7.3	0.8	1.7	2.4	1.9	06/2018
Bimbg. U.S. Aggregate Index			-4.8	-4.8	-14.6	-14.6	-3.3	-0.3	0.9	-0.1	
IM Alternative Credit Focus (MF) Median			-1.5	-1.5	-9.0	-9.6	0.2	0.6	1.3	0.6	
BlackRock Strategic Income Opportunities Fund K Rank			69	69	43	32	35	29	12	26	
PGIM Global Total Return R6	11,503	2.3	-7.5	-7.5	-26.6	-27.2	-8.4	-3.0	0.0	-18.0	04/2021
Bimbg. Global Aggregate			-6.9	-6.9	-19.9	-20.4	-5.7	-2.3	-0.9	-13.9	
IM Global Fixed Income (MF) Median			-4.1	-4.1	-17.4	-17.6	-4.6	-1.1	-0.3	-11.3	
PGIM Global Total Return R6 Rank			90	90	98	98	98	83	45	97	

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Manager Performance

Waterford Pension

As of September 30, 2022

	Allocation		Performance(%)							Manager Status	
	Market Value (\$)	%	QTD	Fiscal YTD	YTD	1 Year	3 Years	5 Years	10 Years		Since Inception
Domestic Equity	186,981	37.4	-4.6	-4.6	-24.9	-18.0	7.5	8.5	-	10.7	11/2016
Domestic Equity Benchmark			-4.6	-4.6	-24.9	-18.1	7.5	8.5	-	10.7	
Fidelity Total Market Index Fund	186,981	37.4	-4.6	-4.6	-24.9	-18.0	7.5	8.5	11.3	8.0	04/2019
Dow Jones U.S. Total Stock Market Index			-4.6	-4.6	-24.9	-18.1	7.5	8.5	11.3	8.0	
IM U.S. Multi-Cap Core Equity (MF) Median			-4.6	-4.6	-24.3	-17.3	6.4	7.1	10.2	7.0	
Fidelity Total Market Index Fund Rank			47	47	60	61	31	24	20	32	
International Equity	120,575	24.1	-9.3	-9.3	-32.1	-32.9	-1.2	-0.2	-	3.4	11/2016
MSCI AC World ex USA (Net)			-9.9	-9.9	-26.5	-25.2	-1.5	-0.8	3.0	2.6	
American Funds EuroPacific Growth R6	120,575	24.1	-9.3	-9.3	-32.1	-32.9	-1.2	-0.2	4.5	3.4	11/2016
MSCI AC World ex USA (Net)			-9.9	-9.9	-26.5	-25.2	-1.5	-0.8	3.0	2.6	
IM International Large Cap Core Equity (MF) Median			-10.2	-10.2	-27.7	-25.4	-1.8	-1.4	3.0	2.1	
American Funds EuroPacific Growth R6 Rank			27	27	92	100	44	18	1	14	

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Calendar Year Performance

Waterford Pension

As of September 30, 2022

	Performance (%)										
	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2012
Waterford Pension	6.4	14.8	16.8	-5.3	13.0	-	-	-	-	-	-
<i>Pension Blended Benchmark</i>	8.0	12.7	17.7	-4.7	13.5	-	-	-	-	-	-
Short Term Liquidity	0.0	0.3	2.0	1.7	0.7	-	-	-	-	-	-
<i>90 Day U.S. Treasury Bill</i>	0.0	0.7	2.3	1.9	0.9	0.3	0.0	0.0	0.0	0.0	0.1
Allspring Government Money Market Fund Instl	0.0	0.3	2.0	1.7	0.7	-	-	-	-	-	-
<i>90 Day U.S. Treasury Bill</i>	0.0	0.7	2.3	1.9	0.9	0.3	0.0	0.0	0.0	0.0	0.1
Fixed Income	-0.7	8.7	8.8	-0.5	3.5	-	-	-	-	-	-
<i>Fixed Income Benchmark</i>	-1.7	7.5	8.7	0.0	3.5	-	-	-	-	-	-
Baird Aggregate Bond Fund Class Institutional	-1.5	8.6	9.5	-0.3	4.2	3.5	0.6	6.9	-1.3	7.9	7.9
<i>Bimbg. U.S. Aggregate Index</i>	-1.5	7.5	8.7	0.0	3.5	2.6	0.5	6.0	-2.0	4.2	4.2
IM U.S. Broad Market Core Fixed Income (MF) Median	-1.3	8.2	8.8	-0.6	3.6	2.9	0.0	5.5	-2.0	6.0	6.0
Baird Aggregate Bond Fund Class Institutional Rank	58	37	27	32	22	33	19	8	24	17	17
Metropolitan West Total Return Bond PI	-1.1	9.2	9.2	0.3	3.5	2.6	0.2	6.2	0.4	11.6	11.6
<i>Bimbg. U.S. Aggregate Index</i>	-1.5	7.5	8.7	0.0	3.5	2.6	0.5	6.0	-2.0	4.2	4.2
IM U.S. Broad Market Core+ Fixed Income (MF) Median	-0.9	8.6	9.3	-1.0	4.5	4.0	-0.3	5.1	-1.1	8.2	8.2
Metropolitan West Total Return Bond PI Rank	59	37	54	11	79	86	25	24	16	7	7
BlackRock Strategic Income Opportunities Fund K	1.0	7.3	7.8	-0.5	5.0	3.6	-0.6	3.6	3.0	9.6	9.6
<i>Bimbg. U.S. Aggregate Index</i>	-1.5	7.5	8.7	0.0	3.5	2.6	0.5	6.0	-2.0	4.2	4.2
IM Alternative Credit Focus (MF) Median	1.9	3.9	7.3	-1.9	4.5	4.9	-1.6	1.0	-0.1	9.2	9.2
BlackRock Strategic Income Opportunities Fund K Rank	58	17	43	29	43	64	25	21	31	44	44
PGIM Global Total Return R6	-5.7	10.1	12.3	-1.6	13.6	2.7	-3.2	5.5	-1.9	13.2	13.2
<i>Bimbg. Global Aggregate</i>	-4.7	9.2	6.8	-1.2	7.4	2.1	-3.2	0.6	-2.6	4.3	4.3
IM Global Fixed Income (MF) Median	-2.7	8.2	8.1	-1.8	6.8	2.9	-3.8	1.9	-2.5	7.3	7.3
PGIM Global Total Return R6 Rank	88	22	6	45	1	52	41	21	42	7	7
Domestic Equity	25.6	20.8	30.9	-5.1	21.2	-	-	-	-	-	-
<i>Domestic Equity Benchmark</i>	25.7	20.8	30.9	-5.2	21.2	-	-	-	-	-	-
Fidelity Total Market Index Fund	25.6	20.8	30.9	-5.3	21.2	12.7	0.5	12.5	33.4	16.4	16.4
<i>Dow Jones U.S. Total Stock Market Index</i>	25.7	20.8	30.9	-5.3	21.2	12.6	0.4	12.5	33.5	16.4	16.4
IM U.S. Multi-Cap Core Equity (MF) Median	25.4	16.9	28.8	-6.8	21.0	9.4	-0.5	10.8	33.5	15.7	15.7
Fidelity Total Market Index Fund Rank	45	27	29	29	45	21	35	31	51	37	37

Calendar Year Performance

As of September 30, 2022

Waterford Pension

	Performance(%)										
	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	
International Equity	2.8	25.3	27.4	-14.9	31.2	-	-	-	-	-	
MSCI AC World ex USA (Net)	7.8	10.7	21.5	-14.2	27.2	4.5	-5.7	-3.9	15.3	16.8	
American Funds EuroPacific Growth R6	2.8	25.3	27.4	-14.9	31.2	1.0	-0.5	-2.3	20.6	19.5	
MSCI AC World ex USA (Net)	7.8	10.7	21.5	-14.2	27.2	4.5	-5.7	-3.9	15.3	16.8	
IM International Large Cap Core Equity (MF) Median	10.7	9.1	22.1	-15.0	25.0	0.0	-1.9	-6.0	20.4	18.0	
American Funds EuroPacific Growth R6 Rank	96	1	4	49	10	37	22	11	46	34	



Investment Gain/Loss Summary

Waterford Pension

1 Quarter Ending September 30, 2022

	Market Value as of 07/01/2022	Net Contributions	Gain/Loss	Market Value As of 09/30/2022
Waterford Pension	524,090	4,949	-29,526	499,513
Short Term Liquidity	1,979	4,949	-666	6,262
Allspring Government Money Market Fund Instl	1,979	4,949	-666	6,262
Fixed Income	193,217	-	-7,522	185,695
Baird Aggregate Bond Fund Class Institutional	53,595	-	-2,498	51,096
Metropolitan West Total Return Bond PI	53,011	-	-2,767	50,244
BlackRock Strategic Income Opportunities Fund K	74,171	-	-1,319	72,852
PGIM Global Total Return R6	12,441	-	-938	11,503
Domestic Equity	195,909	-	-8,928	186,981
Fidelity Total Market Index Fund	195,909	-	-8,928	186,981
International Equity	132,985	-	-12,410	120,575
American Funds EuroPacific Growth R6	132,985	-	-12,410	120,575

Cash activity may include management fees.



Portfolio Statistics

Waterford Pension

As of September 30, 2022

	QTD	Fiscal YTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
Return	-5.4	-5.4	-22.8	-20.8	-0.4	1.4	-	2.9	11/2016
Standard Deviation	5.3	5.3	3.9	13.3	12.4	10.5	-	9.7	
Upside Risk	3.2	3.2	1.8	1.8	8.1	7.0	-	6.6	
Downside Risk	4.6	4.6	4.4	13.3	9.4	7.8	-	7.1	
vs. Pension Blended Benchmark									
Alpha	0.2	0.2	-0.2	-2.5	-0.1	-0.6	-	-0.6	
Beta	1.0	1.0	1.0	1.0	1.0	1.0	-	1.0	
Information Ratio	0.9	0.9	-0.3	-1.5	-0.1	-0.4	-	-0.4	
Tracking Error	0.3	0.3	0.4	1.4	1.4	1.2	-	1.1	
vs. 90 Day U.S. Treasury Bill									
Sharpe Ratio	-0.3	-0.3	-0.7	-1.7	0.0	0.1	-	0.2	

Calculation based on monthly periodicity.



Estimated Fee Analysis

Waterford Pension

As of September 30, 2022

	Market Value (\$)	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
Waterford Pension	499,513	1,406	0.28
Short Term Liquidity			
Allspring Government Money Market Fund Instl	6,262	-	-
Fixed Income	185,695	824	0.44
Baird Aggregate Bond Fund Class Institutional	51,096	153	0.30
Metropolitan West Total Return Bond Pl	50,244	181	0.36
BlackRock Strategic Income Opportunities Fund K	72,852	430	0.59
PGIM Global Total Return R6	11,503	60	0.52
Domestic Equity	186,981	28	0.02
Fidelity Total Market Index Fund	186,981	28	0.02
International Equity	120,575	555	0.46
American Funds EuroPacific Growth R6	120,575	555	0.46

The figures on this page have been obtained from sources we deem to be reliable. Fiducient Advisors has not independently verified this information.

Fee calculations for mutual funds represent fees at the net expense level. Fee calculations for commingled funds and/or alternative investments reflect base management fees and exclude underlying fund expenses captured at the NAV level, any applicable performance-based fees, or incentive fees. Fees for fund of funds are shown at the fund of funds level and do not include fees charged by underlying investment managers/funds.

Definitions & Disclosures

Please note: Due to rounding methodologies of various data providers, certain returns in this report might differ slightly when compared to other sources

REGULATORY DISCLOSURES

Offer of ADV Part 2A: Rule 204-3 under the Investment Advisers Act of 1940 requires that we make an annual offer to clients to send them, without charge, a written disclosure statement meeting the requirements of such rule. We will be glad to send a copy of our ADV Part 2A to you upon your written request to compliance@fiducient.com.

INDEX DEFINITIONS

- **Citigroup 3 Month T-Bill** measures monthly return equivalents of yield averages that are not marked to market. The Three-Month Treasury Bill Indexes consist of the last three three-month Treasury bill issues.
- **Ryan 3 Yr. GIC** is an arithmetic mean of market rates of \$1 million Guaranteed Interest Contracts held for three years.
- **Bloomberg Treasury U.S. T-Bills-1-3 Month Index** includes aged U.S. Treasury bills, notes and bonds with a remaining maturity from 1 up to (but not including) 3 months. It excludes zero coupon strips.
- **Bloomberg Capital US Treasury Inflation Protected Securities Index** consists of Inflation-Protection securities issued by the U.S. Treasury.
- **Bloomberg Muni Index** is a rules-based, market-value-weighted index engineered for the long-term tax-exempt bond market. Bonds must be rated investment-grade by at least two ratings agencies.
- **Bloomberg Muni 1 Year Index** is the 1-year (1-2) component of the Municipal Bond index.
- **Bloomberg Muni 3 Year Index** is the 3-year (2-4) component of the Municipal Bond index.
- **Bloomberg Muni 5 Year Index** is the 5-year (4-6) component of the Municipal Bond index.
- **Bloomberg Muni 7 Year Index** is the 7-year (6-8) component of the Municipal Bond index.
- **Bloomberg Intermediate U.S. Gov't/Credit** is the Intermediate component of the U.S. Government/Credit index, which includes securities in the Government and Credit Indices. The Government Index includes treasuries and agencies, while the credit index includes publicly issued U.S. corporate and foreign debentures and secured notes that meet specified maturity, liquidity, and quality requirements.
- **Bloomberg U.S. Aggregate Index** covers the U.S. investment grade fixed rate bond market, with index components for government and corporate securities, mortgage pass-through securities, and asset-backed securities.
- **Bloomberg Global Aggregate ex. USD** Indices represent a broad-based measure of the global investment-grade fixed income markets. The two major components of this index are the Pan-European Aggregate and the Asian-Pacific Aggregate Indices. The index also includes Eurodollar and Euro-Yen corporate bonds and Canadian government, agency and corporate securities.
- **Bloomberg U.S. Corporate High Yield Index** covers the universe of fixed rate, non-investment grade debt. Eurobonds and debt issues from countries designated as emerging markets (sovereign rating of Baa1/BBB+/BBB+ and below using the middle of Moody's, S&P, and Fitch) are excluded, but Canadian and global bonds (SEC registered) of issuers in non-EMG countries are included.
- **JP Morgan Government Bond Index-Emerging Markets (GBI-EM) Index** is a comprehensive, global local emerging markets index, and consists of regularly traded, liquid fixed-rate, domestic currency government bonds to which international investors can gain exposure.
- **The S&P 500** is a capitalization-weighted index of 500 stocks designed to measure performance of the broad domestic economy through changes in the aggregate market value of 500 stocks representing all major industries.
- **The Dow Jones Industrial Index** is a price-weighted average of 30 blue-chip stocks that are generally the leaders in their industry.
- **The NASDAQ** is a broad-based capitalization-weighted index of stocks in all three NASDAQ tiers: Global Select, Global Market and Capital Market.
- **Russell 3000** is a market-cap-weighted index which consists of roughly 3,000 of the largest companies in the U.S. as determined by market capitalization. It represents nearly 98% of the investable U.S. equity market.
- **Russell 1000** consists of the largest 1000 companies in the Russell 3000 Index.
- **Russell 1000 Growth** measures the performance of those Russell 1000 companies with higher P/B ratios and higher forecasted growth values.
- **Russell 1000 Value** measures the performance of those Russell 1000 companies with lower P/B ratios and lower forecasted growth values.
- **Russell Mid Cap** measures the performance of the 800 smallest companies in the Russell 1000 Index.
- **Russell Mid Cap Growth** measures the performance of those Russell Mid Cap companies with higher P/B ratios and higher forecasted growth values.
- **Russell Mid Cap Value** measures the performance of those Russell Mid Cap companies with lower P/B ratios and lower forecasted growth values.
- **Russell 2000** consists of the 2,000 smallest U.S. companies in the Russell 3000 index.
- **Russell 2000 Growth** measures the performance of the Russell 2000 companies with higher P/B ratios and higher forecasted growth values.
- **Russell 2000 Value** measures the performance of those Russell 2000 companies with lower P/B ratios and lower forecasted growth values.
- **Russell 2500 Growth** measures the performance of the Russell 2500 companies with higher P/B ratios and higher forecasted growth values.
- **Russell 2500 Value** measures the performance of those Russell 2500 companies with lower P/B ratios and lower forecasted growth values.
- **MSCI World** captures large and mid-cap representation across 23 Developed Markets countries. With 1,645 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country.
- **MSCI ACWI (All Country World Index) ex. U.S. Index** captures large and mid-cap representation across 22 of 23 Developed Markets countries (excluding the United States) and 23 Emerging Markets countries. With 1,859 constituents, the index covers approximately 85% of the global equity opportunity set outside the US.
- **MSCI ACWI (All Country World Index) ex. U.S. Small Cap Index** captures small cap representation across 22 of 23 Developed Markets countries (excluding the US) and 23 Emerging Markets countries. With 4,368 constituents, the index covers approximately 14% of the global equity opportunity set outside the US.
- **MSCI EAFE** is an equity index which captures large and mid-cap representation across Developed Markets countries around the world, excluding the US and Canada. With 930 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country.

- **MSCI EAFE Value** captures large and mid-cap securities exhibiting overall value style characteristics across Developed Markets countries around the world, excluding the US and Canada. The value investment style characteristics for index construction are defined using three variables: book value to price, 12-month forward earnings to price and dividend yield. With 507 constituents, the index targets 50% coverage of the free float-adjusted market capitalization of the MSCI EAFE Index.
- **MSCI EAFE Growth** captures large and mid-cap securities exhibiting overall growth style characteristics across Developed Markets countries around the world, excluding the US and Canada. The growth investment style characteristics for index construction are defined using five variables: long-term forward EPS growth rate, short-term forward EPS growth rate, current internal growth rate and long-term historical EPS growth trend and long-term historical sales per share growth trend. With 542 constituents, the index targets 50% coverage of the free float-adjusted market capitalization of the MSCI EAFE Index.
- **MSCI Emerging Markets** captures large and mid-cap representation across 23 Emerging Markets countries. With 836 constituents, the index covers approximately 85% of the free-float adjusted market capitalization in each country.
- **Consumer Price Index** is a measure of prices paid by consumers for a market basket of consumer goods and services. The yearly (or monthly) growth rates represent the inflation rate.
- **FTSE NAREIT Equity REITs Index** contains all Equity REITs not designed as Timber REITs or Infrastructure REITs.
- **S&P Developed World Property** defines and measures the investable universe of publicly traded property companies domiciled in developed markets. The companies in the index are engaged in real estate related activities, such as property ownership, management, development, rental and investment.
- **S&P Developed World Property x U.S.** defines and measures the investable universe of publicly traded property companies domiciled in developed countries outside of the U.S. The companies included are engaged in real estate related activities, such as property ownership, management, development, rental and investment.
- **Fund Specific Broad Real Asset Benchmarks:**
 - **DWS Real Assets:** 30%: Dow Jones Brookfield Infrastructure Index, 30%: FTSE EPRA/NAREIT Developed Index, 15%: Bloomberg Commodity Index, 15%: S&P Global Natural Resources Index, 10%: U.S. Treasury Inflation Notes Total Return Index
 - **PIMCO Inflation Response Multi Asset Fund:** 45% Bloomberg U.S. TIPS, 20% Bloomberg Commodity Index, 15% JP Morgan Emerging Local Markets Plus, 10% Dow Jones Select REIT, 10% Bloomberg Gold Subindex Total Return
 - **Principal Diversified Real Assets:** 35% BbgBarc U.S. Treasury TIPS Index, 20% S&P Global Infrastructure Index NTR, 20% S&P Global Natural Resources Index NTR, 15% Bloomberg Commodity Index, and 10% FTSE EPRA/NAREIT Developed Index NTR
 - **Wellington Diversified Inflation H:** 50% MSCI ACWI Commodity Producers Index, 25% Bloomberg Commodity Index, and 25% Bloomberg Bloomberg US TIPS 1 – 10 Year Index
- **Bloomberg Commodity Index** is calculated on an excess return basis and reflects commodity futures price movements. The index rebalances annually weighted 2/3 by trading volume and 1/3 by world production and weight-caps are applied at the commodity, sector and group level for diversification.
- **HFRI Fund Weighted Composite Index** is a global, equal-weighted index of over 2,000 single-manager funds that report to HFR Database. Constituent funds report monthly net of all fees performance in US Dollar and have a minimum of \$50 Million under management or a twelve (12) month track record of active performance. The HFRI Fund Weighted Composite Index does not include Funds of Hedge Funds.
- **The Alerian MLP Index** is the leading gauge of energy Master Limited Partnerships (MLPs). The float adjusted, capitalization-weighted index, whose constituents represent approximately 85% of total float-adjusted market capitalization, is disseminated real-time on a price-return basis (AMZ) and on a total-return basis.
- **The Adjusted Alerian MLP Index** is commensurate with 65% of the monthly returns of the Alerian MLP Index to incorporate the effect of deferred tax liabilities incurred by MLP entities.
- **Cambridge Associates U.S. Private Equity Index** is based on data compiled from more than 1,200 institutional-quality buyout, growth equity, private equity energy, and mezzanine funds formed between 1986 and 2015.
- **Cambridge Associates U.S. Venture Capital Index** is based on data compiled from over 1,600 institutional-quality venture capital funds formed between 1986 and 2015.
- **Vanguard Spliced Bloomberg US1-5Yr Gov/Cr Flt Adj Index:** Bloomberg U.S. 1-5 Year Government/Credit Bond Index through December 31, 2009; Bloomberg U.S. 1-5 Year Government/Credit Float Adjusted Index thereafter.
- **Vanguard Spliced Bloomberg US5-10Yr Gov/Cr Flt Adj Index:** Bloomberg U.S. 5-10 Year Government/Credit Bond Index through December 31, 2009; Bloomberg U.S. 5-10 Year Government/Credit Float Adjusted Index thereafter.
- **Vanguard Spliced Bloomberg US Agg Flt Adj Index:** Bloomberg U.S. Aggregate Bond Index through December 31, 2009; Bloomberg U.S. Aggregate Float Adjusted Index thereafter.
- **Vanguard Spliced Bloomberg US Long Gov/Cr Flt Adj Index:** Bloomberg U.S. Long Government/Credit Bond Index through December 31, 2009; Bloomberg U.S. Long Government/Credit Float Adjusted Index thereafter.
- **Vanguard Balanced Composite Index:** Made up of two unmanaged benchmarks, weighted 60% Dow Jones U.S. Total Stock Market Index (formerly the Dow Jones Wilshire 5000 Index) and 40% Bloomberg U.S. Aggregate Bond Index through May 31, 2005; 60% MSCI US Broad Market Index and 40% Bloomberg U.S. Aggregate Bond Index through December 31, 2009; 60% MSCI US Broad Market Index and 40% Bloomberg U.S. Aggregate Float Adjusted Index through January 14, 2013; and 60% CRSP US Total Market Index and 40% Bloomberg U.S. Aggregate Float Adjusted Index thereafter.
- **Vanguard Spliced Intermediate-Term Tax-Exempt Index:** Bloomberg 1-15 Year Municipal Bond Index.
- **Vanguard Spliced Extended Market Index:** Dow Jones Wilshire 4500 Index through June 17, 2005; S&P Transitional Completion Index through September 16, 2005; S&P Completion Index thereafter.
- **Vanguard Spliced Value Index:** S&P 500 Value Index (formerly the S&P 500/Barra Value Index) through May 16, 2003; MSCI US Prime Market Value Index through April 16, 2013; CRSP US Large Cap Value Index thereafter.
- **Vanguard Spliced Large Cap Index:** Consists of MSCI US Prime Market 750 Index through January 30, 2013, and the CRSP US Large Cap Index thereafter.
- **Vanguard Spliced Growth Index:** S&P 500 Growth Index (formerly the S&P 500/Barra Growth Index) through May 16, 2003; MSCI US Prime Market Growth Index through April 16, 2013; CRSP US Large Cap Growth Index thereafter.
- **Vanguard Spliced Mid Cap Value Index:** MSCI US Mid Cap Value Index through April 16, 2013; CRSP US Mid Cap Value Index thereafter.
- **Vanguard Spliced Mid Cap Index:** S&P MidCap 400 Index through May 16, 2003; the MSCI US Mid Cap 450 Index through January 30, 2013; and the CRSP US Mid Cap Index thereafter.
- **Vanguard Spliced Mid Cap Growth Index:** MSCI US Mid Cap Growth Index through April 16, 2013; CRSP US Mid Cap Growth Index thereafter.
- **Vanguard Spliced Total Stock Market Index:** Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005; MSCI US Broad Market Index through June 2, 2013; and CRSP US Total Market Index thereafter.
- **Vanguard Spliced Small Cap Value Index:** SmallCap 600 Value Index (formerly the S&P SmallCap 600/Barra Value Index) through May 16, 2003; MSCI US Small Cap Value Index through April 16, 2013; CRSP US Small Cap Value Index thereafter.

- **Vanguard Spliced Small Cap Index:** Russell 2000 Index through May 16, 2003; the MSCI US Small Cap 1750 Index through January 30, 2013; and the CRSP US Small Cap Index thereafter.
- **Vanguard Spliced Small Cap Growth Index:** S&P SmallCap 600 Growth Index (formerly the S&P SmallCap 600/Barr's Value Index) through May 16, 2003; MSCI US Small Cap Growth Index through April 16, 2013; CRSP US Small Cap Growth Index thereafter.
- **Vanguard Spliced Total International Stock Index:** Consists of the Total International Composite Index through August 31, 2006; the MSCI EAFE + Emerging Markets Index through December 15, 2010; the MSCI ACWI ex USA IMI Index through June 2, 2013; and FTSE Global All Cap ex US Index thereafter. Benchmark returns are adjusted for withholding taxes.
- **Vanguard Spliced Developed Markets Index:** MSCI EAFE Index through May 28, 2013; FTSE Developed ex North America Index through December 20, 2015; FTSE Developed All Cap ex US Transition Index through May 31, 2016; FTSE Developed All Cap ex US Index thereafter. Benchmark returns are adjusted for withholding taxes.
- **Vanguard Spliced Emerging Markets Index:** Select Emerging Markets Index through August 23, 2006; MSCI Emerging Markets Index through January 9, 2013; FTSE Emerging Transition Index through June 27, 2013; FTSE Emerging Index through November 1, 2015; and FTSE Emerging Markets All Cap China A Transition Index thereafter. Benchmark returns are adjusted for withholding taxes.
- **Vanguard REIT Spliced Index:** MSCI US REIT Index adjusted to include a 2% cash position (Lipper Money Market Average) through April 30, 2009; MSCI US REIT Index through January 31, 2018; MSCI US Investable Market Real Estate 25/50 Transition Index through July 24, 2018; MSCI US Investable Market Real Estate 25/50 Index thereafter.

Additional:

- Equity sector returns are calculated by Russell and MSCI for domestic and international markets, respectively. MSCI sector definitions correspond to the MSCI GICS® classification (Global Industry Classification System); Russell uses its own sector and industry classifications.
- MSCI country returns are calculated by MSCI and are free float-adjusted market capitalization indices that are designed to measure equity market performance in each specific country.
- Currency returns are calculated using Bloomberg's historical spot rate indices and are calculated using the U.S. dollar as the base currency.
- The Index of Leading Economic Indicators, calculated by The Conference Board, is used as a barometer of economic activity over a range of three to six months. The index is used to determine the direction and stability of the economy. The composite index of leading indicators, which is derived from 10 leading indicators, helps to signal turning points in the economy and forecast economic cycles. The leading indicators are the following: average weekly hours, average weekly initial claims, manufacturers' new orders, both consumer and non-defense capital goods, vendor performance, building permits, stock prices, money supply (M2), the interest rate spread and the index of consumer expectations.
- S&P Target Date Indexes are constructed using a survey method of current target date investments with \$100 million or more in assets under management. Allocations for each vintage are comprised of exchange-traded funds that represent respective asset classes used in target date portfolios. The indexes are designed to represent a market consensus glide path.

DEFINITION OF KEY STATISTICS AND TERMS

- **Returns:** A percentage figure used when reporting historical average compounded rate of investment return. All returns are annualized if the period for which they are calculated exceeds one year.
- **Universe Comparison:** The universe compares the fund's returns to a group of other investment portfolios with similar investment strategies. The returns for the fund, the index and the universe percentiles are displayed. A percentile ranking of 1 is the best, while a percentile ranking of 100 is the worst. For example, a ranking of 50 indicates the fund outperformed half of the universe. A ranking of 25 indicates the fund was in the top 25% of the universe, outperforming 75%.
- **Returns In Up/Down Markets:** This measures how the fund performed in both up and down markets. The methodology is to segregate the performance for each time period into the quarters in which the market, as defined by the index, was positive and negative. Quarters with negative index returns are treated as down markets, and quarters with positive index returns are treated as up markets. Thus, in a 3 year or 12 quarter period, there might be 4 down quarters and 8 up quarters. A simple arithmetic average of returns is calculated for the fund and the index based on the up quarters. A simple arithmetic average of returns is calculated for the fund and the index based on the down quarters. The up market capture ratio is the ratio of the fund's return in up markets to the index. The down market capture ratio is the ratio of the fund's return in down markets to the index. Ideally, the fund would have a greater up market capture ratio than down market capture ratio.
- **Standard Deviation:** Standard deviation is a statistical measure of the range of performance within which the total returns of a fund fall. When a fund has a high standard deviation, the range of performance is very wide, meaning there is a greater volatility. Approximately 68% of the time, the total return of any given fund will differ from the average total return by no more than plus or minus the standard deviation figure. Ninety-five percent of the time, a fund's total return will be within a range of plus or minus two times the standard deviation from the average total return. If the quarterly or monthly returns are all the same the standard deviation will be zero. The more they vary from one another, the higher the standard deviation. Standard deviation can be misleading as a risk indicator for funds with high total returns because large positive deviations will increase the standard deviation without a corresponding increase in the risk of the fund. While positive volatility is welcome, negative is not.
- **R-Squared:** This reflects the percentage of a fund's movements that are explained by movements in its benchmark index. An R-squared of 100 means that all movements of a fund are completely explained by movements in the index. Conversely, a low R-squared indicates very few of the fund's movements are explained by movements in the benchmark index. R-squared can also be used to ascertain the significance of a particular beta. Generally, a higher R-squared will indicate a more reliable beta figure. If the R-squared is lower, then the beta is less relevant to the fund's performance. A measure of diversification, R-squared indicates the extent to which fluctuations in portfolio returns are explained by market. An R-squared = 0.70 implies that 70% of the fluctuation in a portfolio's return is explained by the fluctuation in the market. In this instance, overweighting or underweighting of industry groups or individual securities is responsible for 30% of the fund's movement.
- **Beta:** This is a measure of a fund's market risk. The beta of the market is 1.00. Accordingly, a fund with a 1.10 beta is expected to perform 10% better than the market in up markets and 10% worse than the market in down markets. It is important to note, however, a low fund beta does not imply the fund has a low level of volatility; rather, a low beta means only that the fund's market-related risk is low. Because beta analyzes the market risk of a fund by showing how responsive the fund is to the market, its usefulness depends on the degree to which the markets determine the fund's total risk (indicated by R-squared).
- **Alpha:** The Alpha is the nonsystematic return, or the return that can't be attributed to the market. It can be thought of as how the manager performed if the market's return was zero. A positive alpha implies the manager added value to the return of the portfolio over that of the market. A negative alpha implies the manager did not contribute any value over the performance of the market.
- **Sharpe Ratio:** The Sharpe ratio is the excess return per unit of total risk as measured by standard deviation. Higher numbers are better, indicating more return for the level of risk experienced. The ratio is a fund's return minus the risk-free rate of return (30-day T-Bill rate) divided by the fund's standard deviation. The higher the Sharpe ratio, the more reward you are receiving per unit of total risk. This measure can be used to rank the performance of mutual funds or other portfolios.
- **Treynor Ratio:** The Treynor ratio measures returns earned in excess of that which could have been earned on a riskless investment per each unit of market risk. The ratio relates excess return over the risk-free rate to the additional risk taken; however, systematic risk is used instead of total risk. The Treynor ratio is similar to the Sharpe ratio, except in the fact that it uses the beta to evaluate the returns rather than the standard deviation of portfolio returns. High values mean better return for risk taken.

- **Tracking Error:** Tracking error measures the volatility of the difference in annual returns between the manager and the index. This value is calculated by measuring the standard deviation of the difference between the manager and index returns. For example, a tracking error of +/- 5 would mean there is about a 68% chance (1 standard deviation event) that the manager's returns will fall within +/- 5% of the benchmark's annual return.
- **Information Ratio:** The information ratio is a measure of the consistency of excess return. This value is determined by taking the annualized excess return over a benchmark (style benchmark by default) and dividing it by the standard deviation of excess return.
- **Consistency:** Consistency shows the percent of the periods the fund has beaten the index and the percent of the periods the index has beat the fund. A high average for the fund (e.g., over 50) is desirable, indicating the fund has beaten the index frequently.
- **Downside Risk:** Downside risk is a measure similar to standard deviation but focuses only on the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. The higher the factor, the riskier the product.
- **M-Squared:** M-squared, or the Modigliani risk-adjusted performance measure is used to characterize how well a portfolio's return rewards an investor for the amount of risk taken, relative to that of some benchmark portfolio and to the risk-free rate.

DEFINITION OF KEY PRIVATE EQUITY TERMS

- **PIC (Paid in Capital):** The amount of committed capital that has been transferred from the limited partner to the general partner.
- **TVPI (Total Value to Paid in Capital):** Money returned to limited partners plus the fund's unrealized investments, divided by money paid-in to the partnership. The TVPI should equal RVPI plus DPI.
- **DPI (Distribution to Paid in Capital):** Money returned (distributions) to limited partners divided by money paid-in to the partnership. Also called cash-on-cash multiple.
- **RVPI (Residual Value to Paid in Capital):** The value of a fund's unrealized investments divided by money paid-in to the partnership.
- **Internal rate of return (IRR):** This is the most appropriate performance benchmark for private equity investments. It is a time-weighted return expressed as a percentage. IRR uses the present sum of cash drawdowns (money invested), the present value of distributions (money returned from investments) and the current value of unrealized investments and applies a discount.
- **Commitment:** Every investor in a private equity fund commits to investing a specified sum of money in the fund partnership over a specified period of time. The fund records this as the limited partnership's capital commitment. The sum of capital commitments is equal to the size of the fund.
- **Capital Distribution:** These are the returns that an investor in a private equity fund receives. It is the income and capital realized from investments less expenses and liabilities. Once a limited partner has had their cost of investment returned, further distributions are actual profit. The partnership agreement determines the timing of distributions to the limited partner. It will also determine how profits are divided among the limited partners and general partner.
- **Carried Interest:** The share of profits that the fund manager is due once it has returned the cost of investment to investors. Carried interest is normally expressed as a percentage of the total profits of the fund.
- **Co-Investment:** Co-Investments are minority investments made alongside a private equity investor in an LBO, a recapitalization, or an expansion capital transaction. It is a passive, non-controlling investment, as the private equity firm involved will typically exercise control and perform monitoring functions.
- **General Partner (GP):** This can refer to the top-ranking partners at a private equity firm as well as the firm managing the private equity fund.
- **GP Commitments:** It is normal practice for the GP managing a private equity fund to also make a financial commitment to the fund on the same basis as the LPs in the fund, and this is seen as an important factor driving the alignment of GP and LP interests. The historic benchmark for GP commitments has been 1% of the total fund size, but this is by no means universal, and many GPs commit significantly larger amounts. Furthermore, there has been a marked trend towards GPs making larger commitments to their funds over recent years.
- **Leveraged Buy-Out (LBO):** The acquisition of a company using debt and equity finance.
- **Limited Partner (LP):** Institutions or high-net-worth individuals/sophisticated investors that contribute capital to a private equity fund.
- **Public Market Equivalent (PME):** Performance measure used to evaluate performance relative to the market. It is calculated as the ratio of the discounted value of the LP's inflows divided by the discounted value of outflows, with the discounting performed using realized market returns.
- **Primaries:** An original investment vehicle that invests directly into a company or asset.

VALUATION POLICY

Fiduciant Advisors does not engage an independent third-party pricing service to value securities. Our reports are generated using the security prices provided by our clients. Our custodial pricing hierarchy is available upon request. If a client holds a security not reported by the first custodian within the hierarchy, the valuation is generated from the next custodian within the hierarchy, and so forth. Each custodian uses pricing services from outside vendors, where the vendors may generate nominally different prices. Therefore, this report can reflect minor valuation differences from those contained in a custodian's report. In rare instances where FA overrides a custodial price, prices are taken from Bloomberg.

REPORTING POLICY

This report is intended for the exclusive use of the client listed within the report. Content is privileged and confidential. Any dissemination or distribution is strictly prohibited. Information has been obtained from a variety of sources believed to be reliable though not independently verified. Any forecast represents median expectations and actual returns, volatilities and correlations will differ from forecasts. Please note each client has customized investment objectives and constraints and the investment strategy for each portfolio is based on a client-specific asset allocation model. Past performance does not indicate future performance and there is a possibility of a loss. Performance calculated net of investment fees. Certain portfolios presented may be gross of Fiduciant Advisors' fees and actual performance would be reduced by investment advisory fees. This report does not represent a specific investment recommendation. Please consult with your advisor, attorney, and accountant, as appropriate, regarding specific advice.

Custodian reports are the reports that govern the account. There will be different account values between Fiducient Advisors' reports and the custodian reports based on whether the report utilizes trade date or settlement date to calculate value. Additionally, difference between values contained on reports may be caused by different accrued income values. Any forecasts represent future expectations and actual returns, volatilities and correlations will differ from forecasts. This report does not represent a specific investment recommendation. Please consult with your advisor, attorney, and accountant, as appropriate, regarding specific advice. Past performance does not indicate future performance and there is a possibility of a loss.

Manager performance for mutual funds and ETFs is based on NAV and provided by Lipper. Performance for non-mutual fund or ETF investments is based on the returns provided by managers, calculations based on a manager statement, or calculations based on a statement or data from the client's custodian. Unless specified otherwise, all returns are net of individual manager fees, represent total returns and are annualized for periods greater than one year. The deduction of fees produces a compounding effect that reduces the total rate of return over time. As an example, the effect of investment management fees on the total value of a client's portfolio assuming (a) quarterly fee assessment, (b) \$1,000,000 investment, (c) portfolio return of 8% a year, and (d) 0.50% annual investment advisory fee would be \$5,228 in the first year, and cumulative effects of \$30,342 over five years and \$73,826 over ten years. Additional information on advisory fees charged by Fiducient Advisors are described in Part 2 of the Form ADV.

OTHER

By regulation, closed-end funds utilizing debt for leverage must report their interest expense, as well as their income tax expense, as part of their total expense ratio. To make for a useful comparison between closed-end funds and both open-end funds and exchange-traded funds, adjusted expense ratios excluding interest and income tax expenses are utilized for closed-end funds within this report. See disclosure on closed-end fund fact sheets for information regarding the total expense ratio of each closed-end fund.

Please advise us of any changes in your objectives or circumstances.

CUSTODIAN STATEMENTS

Please remember to review the periodic statements you receive from you custodian. If you do not receive periodic statements from your custodian or notice issues with the activity reported in those statements, please contact FA or your custodian immediately.