

September 30, 2019 Performance Report

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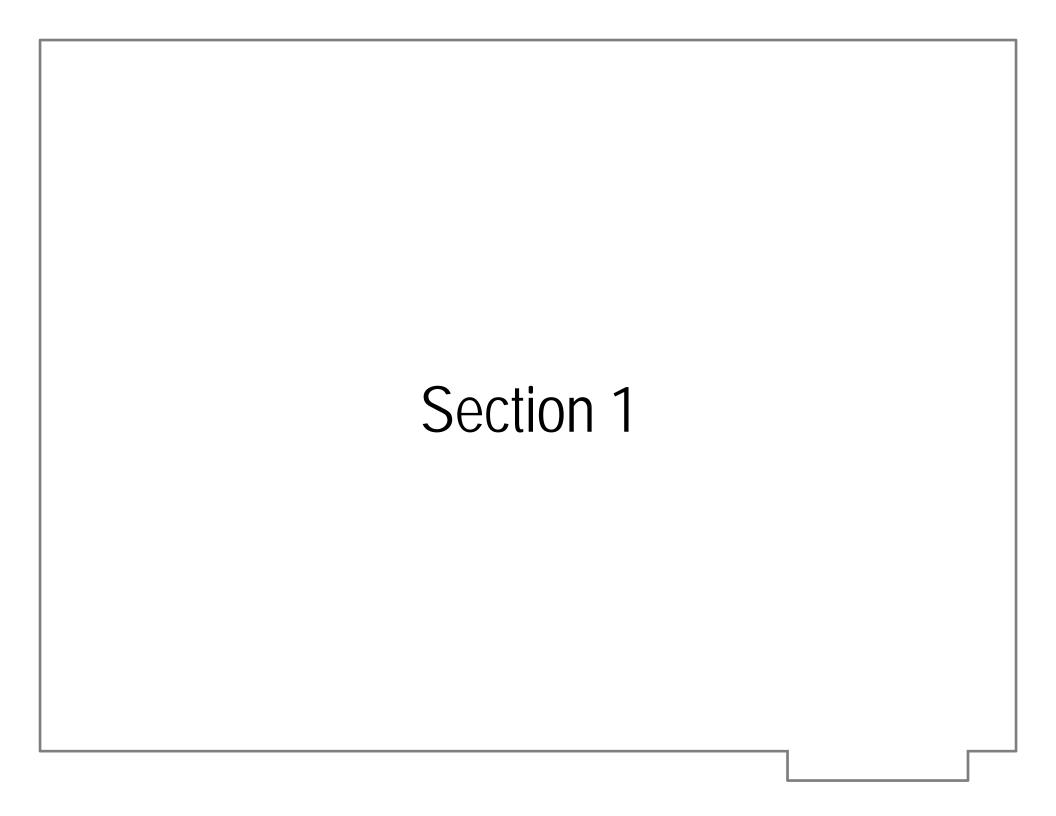
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"FREE" TRADES

While nationalism and protectionist policies continue to dominate global economic headlines, the online brokerage business here in the US has gone all in on "free" trade policies. Industry titan Charles Schwab pioneered the discount brokerage model and developed a highly successful business focusing on lowering commissions for retail investors. The firm has been so successful at bringing down fees, they recently announced that they would no longer be charging commissions on stock, ETF and certain option trades. On the heels of this announcement other industry leaders followed suit. TD Ameritrade, E*Trade and Interactive Brokers have all initiated similar no fee trading policies. Trading is now "free".

If you are not already, the question you should be asking is if trades are now "free", how do these firms make enough money to stay in business and provide shareholders with competitive returns on capital? A recent article by The Wall Street Journal stated it well, "when you trade for free, you still pay – at a different tollbooth." There are essentially two tollbooths we would like to address, and neither is particularly transparent to the average investor.

Today, one of the primary sources of revenue for brokerage firms is net interest margin. Net interest margin is the difference between the interest income generated by financial institutions and the amount of interest paid out to their lenders. In this case, account holders are the lenders, whether they realize it or not. Virtually all brokerage accounts are set-up to sweep idle cash into low interest bank accounts (sweep vehicles) sponsored by the brokerage firms. The brokerage firm then directs equivalent funds into higher yielding investment accounts of its own and pockets the difference. Over time, account holders have typically seen their choice of sweep vehicles increasingly restricted. Sweep vehicles are generally paying annual interest between 0.10% and 0.60% in today's marketplace. This compares to ultra conservative US government money market funds yielding nearly 2.0%. This business model is not new, the banking industry has been built on revenues from net interest margin. Given this increasing focus on net interest revenues, brokerage clients should be diligent about reviewing their sweep vehicle options.

The other tollbooth we would like to highlight is even less transparent, and while a legal (as long as it is disclosed) common industry practice, has the potential to take money out of investors' pockets, a nearly invisible pickpocket of sorts. Contrary to popular press, Charles Schwab is not leading the industry transition to free trading. They are merely responding to new competition that operates on a far different revenue model. Enter Robinhood, a relatively new brokerage firm founded on the premise of commission-free trading. What's the catch?

In order to process trades brokerage firms have to route their orders through any number of execution firms that match buy and sell orders. Robinhood, and other new competitors, as a practice derive a significant portion of their revenues from selling their brokerage order flow to the highest paying execution firms. Brokerage firms are allowed to sell their order flow but are required by the SEC to disclose to whom and for how much. The execution firms can use the order flow information to run high frequency trading programs that exploit pricing trends, trends visible only with access to order flow. There is a case to be made that the high frequency trading profits come at the expense of brokerage clients in the form of higher execution costs. However, any difference in execution would generally be difficult to detect even for sophisticated investors. The election to sell order flow is unique to each brokerage firm. Investors can access more details on their brokerage firm's order routing practices by referencing the SEC's Rule 606 quarterly reporting.

GLOBAL ECONOMIC LANDSCAPE

- Domestic markets continue to weigh mixed economic signals. The US economy gained 136,000 jobs in September, which coincided with a 45,000 upward revision to the prior two months. This resulted in a monthly average of just over 156,000 for the quarter, not bad for an aging economic cycle. However, US manufacturing activity fell to its lowest level in more than 10 years in the most recent month. Manufacturing represents a modest 10% of our current economy versus 90% for services. The net result was an unemployment rate that fell to 3.5% in September, its lowest reading since December 1969. This is well below the 50-year average rate of 6.2% and indicates an economy operating near full capacity.
- Economies of developed world countries continue to show signs of economic weakness. Global manufacturing declined another 1.3 points in September to 47.8, the lowest level in a decade. Global service activity has been more positive but shows signs of slowing. UK services Purchasing Managers Index dropped 1.1 points to 49.5 in September. The drop below 50 indicates a shift from expansion to contraction occurred late in the quarter. German industrial activity is nearing recession levels and the United Kingdom's Brexit transition is an ongoing source of uncertainty. Ten-year yields across Germany, France, Switzerland and Japan are all negative, reflecting continued weak growth expectations out of Europe.
- Latin American countries continue to pursue policies of reform to stimulate economic growth. Argentina was experiencing the beginning of a cyclical upswing in its economy until unexpected primary election results in August led to a collapse in sovereign bond prices. The Mexican central bank cut their policy rate by 25 basis points to counter slowing capital expenditures resulting from expected slower growth in the US. Mexico continues to gain market share of US exports at the expense of China. Brazil continues to promote controversial policies of economic growth that include clearing of rainforest to promote agricultural production and transitioning certain sovereign energy rights over to private parties to enhance production.

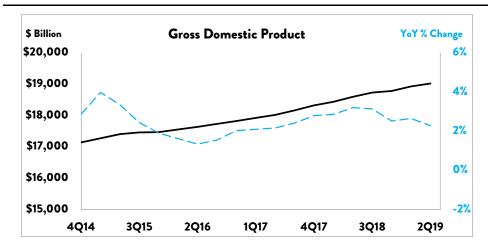
GLOBAL FINANCIAL MARKETS

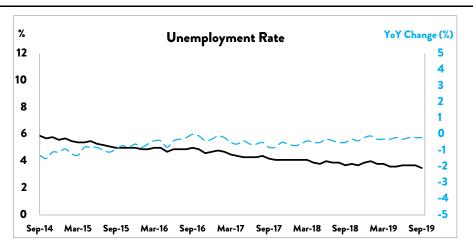
- Domestic equity markets continue to see increasing cross-sector dispersion and are now seemingly split between cyclical and non-cyclical rotations. Throughout most of the quarter and year-to-date, non-cyclical sectors have trended higher on fears of a global economic recession. As a result, Technology, Real Estate and Utilities have been consistent outperformers. Cyclical sectors have lagged, dramatically led by Energy, Materials and Consumer Discretionary.
- Domestic fixed income markets benefited from a third consecutive quarter of declining interest rates. 10-year US Treasury yields ended the quarter just above 1.6%. Despite the decline in rates, the US continues to have the highest rate of any G7 country. The following highlights 10-year sovereign yields across the remaining G7 markets; Canada (1.23%), UK (0.44%), Germany (-0.59%), France (-0.28%), Italy (0.83%) and Japan (-0.21%).
- Drone strikes on Saudi Arabia oil production facilities took nearly half of their total daily production offline and sent oil prices skyrocketing by 15% in a single day.
 Markets were quick to reflect the temporary nature of this supply shock and the lack of any significant retaliation against Iran. In less than two weeks oil prices were back down below pre-attack valuations.
- Japanese corporate share repurchases are occurring at record pace. In 2018, Japanese companies announced \$7 trillion Yen (\$65B USD) in stock buybacks which represented a 40% year-over-year increase. This pace continues to pick up and is expected to reach \$9 Trillion Yen (\$85B USD) in 2019.
- Generally poor growth prospects overseas were reflected in negative developed and emerging stock returns this quarter. Though, year-to-date returns have been surprisingly resilient. Developed markets have benefited from central bank pledges of more accommodative policies. Emerging markets have also benefited from easier monetary policy but have been more directly impacted by increasing trade tensions between the US and China, resulting in slower growth expectations.

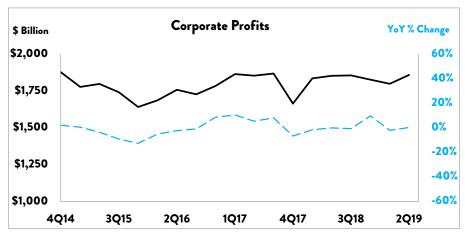
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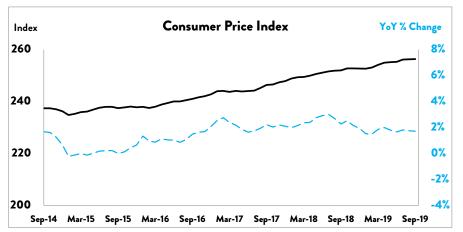
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3Q2019 Economic Data









Key:	 Economic	Serie
Key:	 Economic	Serie

— Year-Over-Year Change

Labor Market Statistics (Monthly)									
Category	Recent	5-Yr High	5-Yr Low	5-Yr Avg.	Date				
Jobs Added/Lost Monthly	136,000	351,000	14,000	203,033	Sep-19				
Unemployment Rate	3.5%	5.9%	3.5%	4.5%	Sep-19				
Median Unemployment Length (Weeks)	9.8	14.0	6.6	10.4	Sep-19				
Average Hourly Earnings	\$28.09	\$28.10	\$24.58	\$26.22	Sep-19				

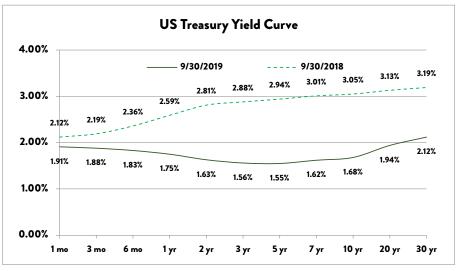
Other Prices and Indexes (Monthly)									
Category	Recent	5-Yr High	5-Yr Low	% Off Peak	Date				
Gas: Price per Gallon	\$2.56	\$3.20	\$1.79	-20.2%	Sep-19				
Spot Oil	\$54.81	\$93.21	\$30.32	-41.2%	Aug-19				
Case-Shiller Home Price Index	216.1	216.1	170.6	26.7%*	Jul-19				
Medical Care CPI	502.3	502.3	437.5	14.8%*	Sep-19				

Source: Federal Reserve Bank of St. Louis and Bureau of Labor Statistics

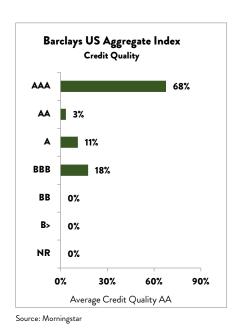
^{*%} Off Low

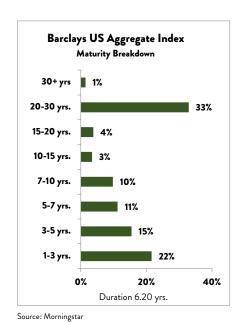
3Q2019 Bond Market Data

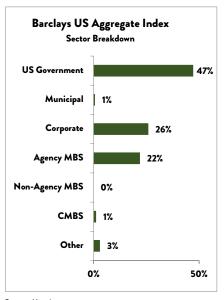
Index	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
90-Day T-Bill	0.58%	1.84%	2.35%	1.44%	0.90%	0.49%
Barclays US Aggregate	2.27%	8.52%	10.30%	2.92%	3.38%	3.75%
Barclays Short US Treasury	0.56%	1.95%	2.56%	1.57%	1.05%	0.62%
Barclays Int. US Treasury	1.18%	5.22%	7.58%	1.80%	2.19%	2.39%
Barclays Long US Treasury	7.92%	19.77%	24.79%	4.07%	6.77%	6.87%
Barclays US TIPS	1.35%	7.58%	7.13%	2.21%	2.45%	3.46%
Barclays US Credit	2.98%	12.61%	12.63%	4.33%	4.54%	5.32%
Barclays US Mortgage-Backed	1.37%	5.60%	7.80%	2.32%	2.80%	3.14%
Barclays US Asset-Backed	0.92%	4.13%	5.42%	2.24%	2.25%	2.82%
Barclays US 20-Yr Municipal	2.29%	8.59%	10.58%	4.04%	4.71%	5.24%
Barclays US High Yield	1.33%	11.41%	6.36%	6.07%	5.37%	7.94%
Barclays Global	0.71%	6.32%	7.60%	1.59%	1.99%	2.34%
Barclays International	-0.58%	4.38%	5.34%	0.43%	0.87%	1.27%
Barclays Emerging Market	1.28%	10.79%	10.60%	4.42%	5.04%	6.66%

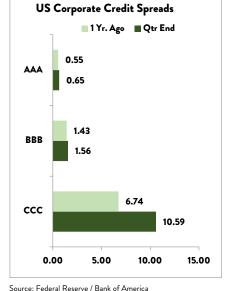


Source: Department of US Treasury









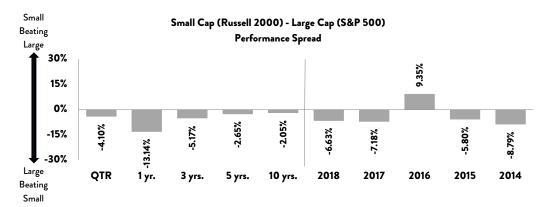
Source: Morningstar Sou

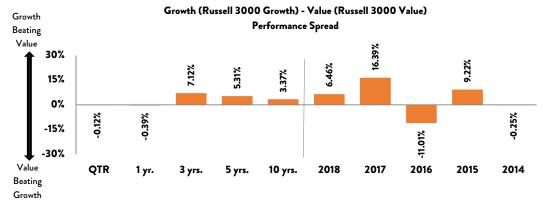
3Q2019 US Equity Market Data

Sec	tors Weig	hts/Returns (ranked by qua	rter performanc	e)	
	Wgt.	Sector	QTR	YTD	1 yr.
	4%	Utilities	9.33%	25.40%	27.10%
	3%	Real Estate	7.71%	29.71%	24.74%
	8%	Consumer Staples	6.11%	23.28%	16.85%
dex	22%	Information Technology	3.34%	31.37%	8.59%
-	10%	Communication Services	2.22%	21.74%	5.69%
S&P 500 Index	13%	Financials	2.01%	19.60%	3.92%
S&F	9%	Industrials	0.99%	22.58%	1.39%
	10%	Consumer Discretionary	0.51%	22.46%	2.36%
	3%	Materials	-0.12%	17.11%	2.70%
	14%	Health Care	-2.25%	5.64%	-3.57%
	5%	Energy	-6.30%	6.00%	-19.21%
	Wgt.	Sector	QTR	YTD	1 yr.
	11%	Real Estate	7.26%	20.85%	8.09%
×	5%	Utilities	3.28%	16.79%	15.94%
nde	3%	Consumer Staples	1.69%	7.59%	-1.03%
S&P Midcap 400 Index	17%	Financials	1.20%	20.28%	1.31%
p 4	15%	Information Technology	1.08%	28.47%	6.82%
dea	12%	Consumer Discretionary	0.94%	17.45%	-3.87%
Σ	16%	Industrials	-0.71%	23.20%	0.31%
S&F	6%	Materials	-2.84%	13.08%	-8.97%
	10%	Health Care	-4.13%	10.49%	-11.53%
	2%	Communication Services	-4.25%	12.00%	0.84%
	2%	Energy	-22.95%	-22.68%	-54.90%
	Wgt.	Sector	QTR	YTD	1 yr.
	2%	Utilities	6.58%	22.90%	15.97%
X	7%	Real Estate	6.47%	23.50%	9.71%
<u> </u>	14%	Information Technology	3.31%	24.97%	2.89%
009	4%	Consumer Staples	2.14%	7.72%	-7.72%
S&P Smallcap 600 Index	14%	Consumer Discretionary	1.27%	10.11%	-11.40%
allc	18%	Industrials	0.57%	20.86%	-7.33%
Sm	18%	Financials	-0.56%	11.74%	-4.12%
88	2%	Communication Services	-1.40%	2.87%	-18.80%
	5%	Materials	-2.85%	12.23%	-17.47%
	12%	Health Care	-3.76%	5.44%	-18.89%
	4%	Energy	-22.26%	-19.97%	-56.62%

Index Performance Data

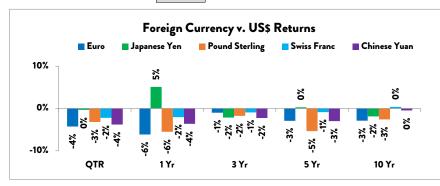
					Annualized	
Index	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
S&P 500	1.70%	20.55%	4.25%	13.39%	10.84%	13.24%
Russell 1000 Value	1.36%	17.81%	4.00%	9.43%	7.79%	11.46%
Russell 1000 Growth	1.49%	23.30%	3.71%	16.89%	13.39%	14.94%
Russell Mid Cap	0.48%	21.93%	3.19%	10.69%	9.10%	13.07%
Russell Mid Cap Value	1.22%	19.47%	1.60%	7.82%	7.55%	12.29%
Russell Mid Cap Growth	-0.67%	25.23%	5.20%	14.50%	11.12%	14.08%
Russell 2000	-2.40%	14.18%	-8.89%	8.23%	8.19%	11.19%
Russell 2000 Value	-0.57%	12.82%	-8.24%	6.54%	7.17%	10.06%
Russell 2000 Growth	-4.17%	15.34%	-9.63%	9.79%	9.08%	12.25%
Russell 3000	1.16%	20.09%	2.92%	12.83%	10.44%	13.08%
DJ US Select REIT	6.83%	24.64%	16.41%	6.48%	9.70%	12.69%



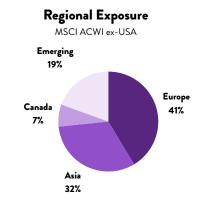


3Q2019 International Market Data

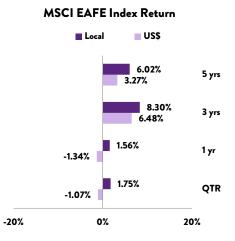
Index Performance Data (net)						
Index (US\$)	QTR	YTD	1 yr.	3 yrs.	5 yrs.	10 yrs.
MSCI ACWI ex-US	-1.80%	11.56%	-1.23%	6.33%	2.90%	4.45%
MSCI EAFE	-1.07%	12.80%	-1.34%	6.48%	3.27%	4.90%
Europe	-1.80%	13.72%	-0.75%	6.57%	2.38%	4.61%
United Kingdom	-2.49%	10.09%	-2.88%	4.63%	0.44%	4.76%
Germany	-4.03%	9.90%	-7.11%	3.48%	1.87%	4.42%
France	-1.72%	15.87%	-1.57%	10.23%	5.08%	4.35%
Pacific	0.23%	11.43%	-2.17%	6.54%	5.11%	5.61%
Japan	3.13%	11.12%	-4.69%	6.22%	5.61%	5.51%
Hong Kong	-11.94%	2.82%	-1.84%	5.51%	6.24%	7.74%
Australia	-1.39%	17.86%	6.06%	7.80%	3.77%	5.07%
Canada	0.45%	21.55%	2.96%	6.45%	1.00%	3.61%
MSCI EM	-4.25%	5.89%	-2.02%	5.97%	2.33%	3.37%
MSCI EM Latin America	-5.61%	6.32%	6.70%	6.80%	-0.78%	-0.48%
MSCI EM Asia	-3.41%	5.98%	-3.87%	6.33%	4.09%	5.20%
MSCI EM Eur/Mid East	-4.13%	9.99%	5.25%	7.95%	-0.42%	0.19%
MSCI ACWI Value ex-US	-2.80%	6.94%	-4.51%	5.24%	0.89%	3.05%
MSCI ACWI Growth ex-US	-0.85%	16.21%	2.03%	7.37%	4.86%	5.82%
MSCI ACWI Sm Cap ex-US	-1.19%	10.28%	-5.63%	4.64%	3.98%	6.13%

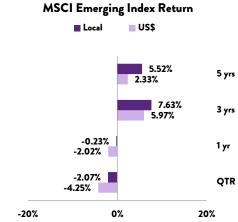


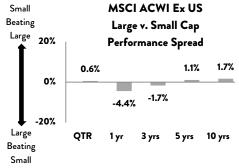
Exchange Rates	QTR	2Q19	1Q19	4Q18	3Q18	2Q18
Japanese Yen	108.11	107.84	110.68	109.70	113.48	110.71
Euro	0.92	0.88	0.89	0.87	0.86	0.86
British Pound	0.81	0.79	0.77	0.78	0.77	0.76
Swiss Franc	1.00	0.98	1.00	0.98	0.98	0.99
Chinese Yuan	7.15	6.87	6.71	6.88	6.87	6.62

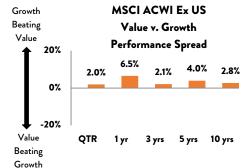












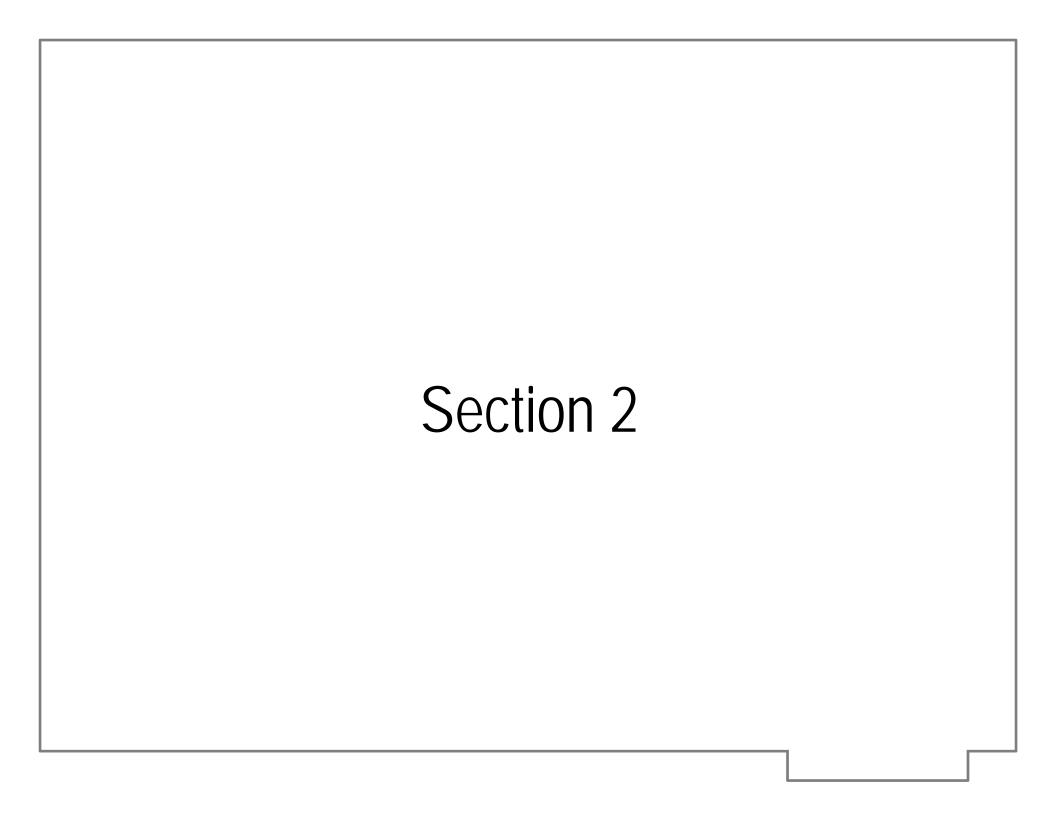
Historical Market Returns

Ranked by Performance

2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	YTD	3Q19
Emerging Markets 25.55%	Emerging Markets 34.00%	Emerging Markets 32.14%	Emerging Markets 39.42%	US Bonds 5.24%	Emerging Markets 78.51%	Small Cap 26.85%	Core Real Estate 14.96%	Emerging Markets 18.22%	Small Cap 38.82%	Large Cap 13.68%	Core Real Estate 13.95%	Small Cap 21.30%	Emerging Markets 37.28%	Core Real Estate 7.36%	Mid Cap 21.93%	US Bonds 2.27%
Intl 20.91%	Commod. 21.36%	Intl 26.65%	Intl 16.65%	Global Bonds 4.79%	High Yield 58.21%	Mid Cap 25.48%	TIPS 13.56%	Mid Cap 17.28%	Mid Cap 34.76%	Mid Cap 13.21%	Large Cap 1.38%	High Yield 17.12%	Intl 27.19%	Cash 1.69%	Large Cap 20.55%	Large Cap 1.70%
Mid Cap 20.22%	Core Real Estate 20.15%	Small Cap 18.37%	Commod. 16.23%	Cash 1.39%	Intl 41.45%	Emerging Markets 18.88%	US Bonds 7.84%	Intl 16.83%	Large Cap 32.39%	Core Real Estate 11.44%	US Bonds 0.55%	Mid Cap 13.79%	Large Cap 21.83%	US Bonds 0.01%	Small Cap 14.18%	TIPS 1.35%
Small Cap 18.33%	Intl 16.62%	Large Cap 15.79%	Core Real Estate 14.84%	TIPS -2.35%	Mid Cap 40.48%	Commod. 16.83%	Global Bonds 5.64%	Small Cap 16.35%	Intl 15.29%	US Bonds 5.97%	Cash 0.03%	Large Cap 11.95%	Mid Cap 18.52%	Global Bonds -1.20%	Global Balanced 12.84%	High Yield 1.33%
Global Balanced 12.18%	Mid Cap 12.65%	Core Real Estate 15.27%	TIPS 11.64%	Core Real Estate -10.70%	Small Cap 27.17%	Core Real Estate 15.26%	High Yield 4.98%	Large Cap 16.00%	Global Balanced 14.46%	Small Cap 4.89%	TIPS -1.43%	Commod. 11.76	Global Balanced 15.87%	TIPS -1.26%	Intl 11.56%	Core Real Estate 1.08%
Core Real Estate 12.00%	Large Cap 4.91%	Mid Cap 15.26%	Global Bonds 9.48%	Global Balanced -24.51%	Large Cap 26.46%	High Yield 15.12%	Large Cap 2.11%	High Yield 15.81%	Core Real Estate 12.95%	TIPS 3.64%	Global Balanced -1.45%	Emerging Markets 11.18%	Small Cap 14.65%	High Yield -2.08%	High Yield 11.41%	Global Bonds 0.71%
High Yield 11.13%	Small Cap 4.55%	Global Balanced 14.53%	Global Balanced 9.07%	High Yield -26.16%	Global Balanced 20.49%	Large Cap 15.06%	Cash 0.06%	Global Balanced 11.06%	High Yield 7.44%	Global Balanced 3.17%	Mid Cap -2.43%	Core Real Estate 7.76%	High Yield 7.50%	Large Cap -4.38%	US Bonds 8.52%	Global Balanced 0.60%
Large Cap 10.88%	Global Balanced 4.16%	High Yield 11.85%	US Bonds 6.97%	Small Cap -33.79%	Commod. 18.91%	Intl 11.15%	Global Balanced -0.97%	Core Real Estate 9.76%	Cash 0.07%	High Yield 2.45%	Global Bonds -3.15%	Global Balanced 5.38%	Global Bonds 7.39%	Global Balanced -5.30%	TIPS 7.58%	Cash 0.58%
Global Bonds 9.27%	Cash 3.25%	Global Bonds 6.64%	Mid Cap 5.60%	Commod35.65%	TIPS 11.41%	Global Balanced 9.40%	Mid Cap -1.55%	TIPS 6.98%	US Bonds -2.02%	Global Bonds 0.59%	Small Cap -4.41%	TIPS 4.68%	Core Real Estate 6.66%	Mid Cap -9.06%	Global Bonds 6.32%	Mid Cap 0.48%
Commod. 9.15%	TIPS 2.84%	Cash 4.85%	Large Cap 5.49%	Large Cap -37.00%	Global Bonds 6.93%	US Bonds 6.54%	Small Cap -4.18%	Global Bonds 4.32%	Global Bonds -2.60%	Cash 0.04%	High Yield -4.46%	Intl 4.50%	US Bonds 3.54%	Small Cap -11.01%	Emerging Markets 5.89%	Intl -1.80%
TIPS 8.46%	High Yield 2.74%	US Bonds 4.33%	Cash 4.44%	Mid Cap -41.46%	US Bonds 5.93%	TIPS 6.31%	Commod13.32%	US Bonds 4.21%	Emerging Markets -2.60%	Emerging Markets -2.18%	Intl -5.66%	US Bonds 2.65%	TIPS 3.01%	Commod. -11.25%	Commod. 3.13%	Commod. -1.84%
US Bonds 4.34%	US Bonds 2.43%	Commod. 2.07%	High Yield 1.87%	Intl -45.53%	Cash 0.16%	Global Bonds 5.54%	Intl -13.71%	Cash 0.08%	TIPS -8.61%	Intl -3.86%	Emerging Markets -14.90%	Global Bonds 2.09%	Commod. 1.70%	Intl -14.20%	Core Real Estate 3.08%	Small Cap -2.40%
Cash 1.44%	Global Bonds -4.49%	TIPS 0.41%	Small Cap -1.57%	Emerging Markets -53.33%	Core Real Estate -30.40%	Cash 0.15%	Emerging Markets -18.42%	Commod1.06%	Commod9.52%	Commod17.00%	Commod24.60%	Cash 0.25%	Cash 0.71%	Emerging Markets -14.58%	Cash 1.84%	Emerging Markets -4.25%

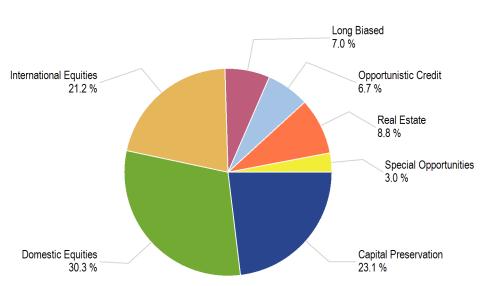
Global Balanced is composed of 60% MSCI World Stock Index, 35% Barclays Global Aggregate Bond Index, and 5% US 90-Day T-Bills.

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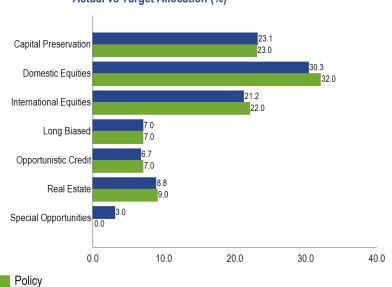


As of September 30, 2019

Current Allocation



Actual vs Target Allocation (%)



Beginning Market Value Net Cash Flow -2.5 Net Investment Change -1.5 Ending Market Value 303.8

Current Market Value: \$303,834,059

100

200

Millions (\$)

300

400

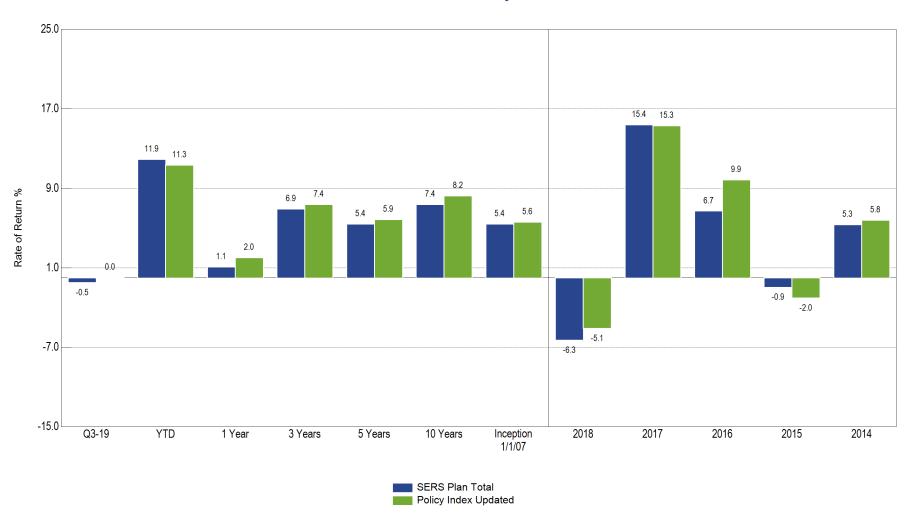
0

Policy Index

-100

I olicy muck	
Index	Weight
US 90 Day T-Bill	0%
Barclays US Aggregate Bond Index	10%
Barclays Corporate High Yield Index	5%
HFRI FOF Conservative Index	8%
S&P 500 Index	21%
Russell 2500 Index	11%
MSCI ACWI ex-US Index	15%
MSCI ACWI ex-US Small Cap Index	4%
MSCI Emerging Markets Free Index	3%
HFRI FOF Composite Index	7%
HFRI Distressed Restructuring Index	7%
NCREIF - ODCE Index	6%
FTSE NAREIT Index	3%

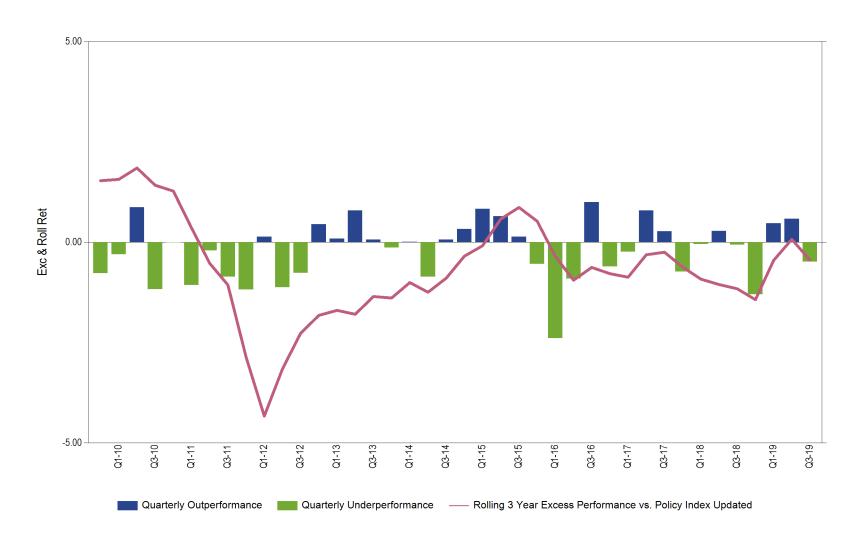
Return Summary



Performance Net of Fees

Performance greater than 1 year is annualized

Rolling Annualized Excess Performance



RISK RETURN STATISTICS

Trailing 3 Years

	SERS Plan Total	Policy Index Updated
RETURN SUMMARY STATISTICS		
Number of Periods	12	12
Maximum Return	8.88	8.41
Minimum Return	-9.67	-8.37
Annualized Return	6.93	7.38
Total Return	22.27	23.81
Annualized Excess Return Over Risk Free	5.39	5.83
Annualized Excess Return	-0.45	0.00
RISK SUMMARY STATISTICS		
Beta	1.10	1.00
Upside Deviation	4.54	4.56
Downside Deviation	10.75	11.57
RISK/RETURN SUMMARY STATISTICS		
Annualized Standard Deviation	8.71	7.88
Alpha	-0.27	0.00
Sharpe Ratio	0.62	0.74
Excess Return Over Market / Risk	-0.05	0.00
Tracking Error	1.23	0.00
Information Ratio	-0.36	
CORRELATION STATISTICS		
R-Squared	0.99	1.00
Correlation	0.99	1.00

Market Proxy: Policy Index Updated Risk-Free Proxy: 91 Day T-Bills

RISK RETURN STATISTICS

Trailing 5 Years

	SERS Plan Total	Policy Index Updated
RETURN SUMMARY STATISTICS		
Number of Periods	20	20
Maximum Return	8.88	8.41
Minimum Return	-9.67	-8.37
Annualized Return	5.40	5.86
Total Return	30.09	32.92
Annualized Excess Return Over Risk Free	4.43	4.88
Annualized Excess Return	-0.45	0.00
RISK SUMMARY STATISTICS		
Beta	1.06	1.00
Upside Deviation	3.99	3.76
Downside Deviation	8.48	8.48
RISK/RETURN SUMMARY STATISTICS		
Annualized Standard Deviation	7.73	7.13
Alpha	-0.19	0.00
Sharpe Ratio	0.57	0.68
Excess Return Over Market / Risk	-0.06	0.00
Tracking Error	1.66	0.00
Information Ratio	-0.27	
CORRELATION STATISTICS		
R-Squared	0.96	1.00
Correlation	0.98	1.00

Market Proxy: Policy Index Updated Risk-Free Proxy: 91 Day T-Bills

RISK RETURN STATISTICS

January 01, 2007 Through September 30, 2019

	SERS Plan Total	Policy Index Updated
RETURN SUMMARY STATISTICS		
Number of Periods	51	51
Maximum Return	12.42	16.64
Minimum Return	-14.46	-17.38
Annualized Return	5.40	5.61
Total Return	95.65	100.58
Annualized Excess Return Over Risk Free	4.54	4.75
Annualized Excess Return	-0.21	0.00
RISK SUMMARY STATISTICS		
Beta	0.88	1.00
Upside Deviation	5.98	7.31
Downside Deviation	9.16	10.15
RISK/RETURN SUMMARY STATISTICS		
Annualized Standard Deviation	10.99	12.29
Alpha	0.10	0.00
Sharpe Ratio	0.41	0.39
Excess Return Over Market / Risk	-0.02	0.00
Tracking Error	2.52	0.00
Information Ratio	-0.08	
CORRELATION STATISTICS		
R-Squared	0.97	1.00
Correlation	0.98	1.00

Market Proxy: Policy Index Updated Risk-Free Proxy: 91 Day T-Bills

Total Account Performance Summary

	3 Mo (%)	YTD (%)	1 Yr	3 Yrs (%)	-	10 Yrs	2018 (%)	2017 (%)	2016 (%)	2015	2014	2013	2012 (%)	Inception I	nception Date
	(70)	(70)	(%)	(70)	(%)	(%)				(%)	(%)	(%)	. ,	(%)	Dale
SERS Plan Total	-0.48	11.91	1.09	6.93	5.40	7.38	-6.27	15.40	6.71	-0.94	5.34	18.89	11.70	5.40	Jan-07
Policy Index Updated	0.01	<u>11.34</u>	<u>2.03</u>	<u>7.38</u>	<u>5.86</u>	<u>8.23</u>	<u>-5.09</u>	<u>15.29</u>	9.86	<u>-2.00</u>	<u>5.79</u>	<u>17.92</u>	<u>13.18</u>	<u>5.61</u>	Jan-07
Over/Under	-0.49	0.57	-0.94	-0.45	-0.46	-0.85	-1.18	0.11	-3.15	1.06	-0.45	0.97	-1.48	-0.21	
70/30 ACWI/Barclays Aggregate Bond	0.69	14.06	4.32	7.79	5.83	7.17	-6.48	17.50	6.42	-1.30	4.77	14.87	12.66	5.06	Jan-07
InvMetrics All DB \$250mm-\$1B Net Rank	98	69	98	76	87	76	83	42	74	47	63	8	61	63	Jan-07
Capital Preservation	0.37	6.98	4.47	4.31	3.45		-0.94	5.85	8.12	-1.74	1.65	2.70		3.60	Jul-12
Capital Preservation Index	1.25	7.78	6.25	3.70	3.38	4.33	<u>-0.72</u>	4.60	5.43	-0.58	4.23	3.33	6.66	3.80	Jul-12
Over/Under	-0.88	-0.80	-1.78	0.61	0.07		-0.22	1.25	2.69	-1.16	-2.58	-0.63		-0.20	
Domestic Equity	-0.07	19.24	-0.19	11.22	9.11		-7.80	19.86	10.91	-0.32	11.10	36.38		12.47	Jul-12
Domestic Equity Index	0.67	<u>19.61</u>	1.37	12.10	10.10	12.94	<u>-6.30</u>	<u>20.11</u>	13.92	-0.06	11.44	33.91	16.67	<u>13.13</u>	Jul-12
Over/Under	-0.74	-0.37	-1.56	-0.88	-0.99		-1.50	-0.25	-3.01	-0.26	-0.34	2.47		-0.66	
All Cap Blend MStar MF Rank	64	42	51	39	39		45	37	70	33	38	35		39	Jul-12
International Equity Total	-1.13	13.89	-0.22	6.35	4.16	6.17	-15.78	28.45	3.91	-1.32	-3.58	20.93	18.48	4.24	Apr-07
International Equity Index	<u>-2.02</u>	10.55	<u>-2.13</u>	6.00	3.06	4.65	<u>-14.96</u>	<u>29.35</u>	<u>5.34</u>	<u>-5.49</u>	<u>-3.63</u>	<u>13.48</u>	17.36	2.45	Apr-07
Over/Under	0.89	3.34	1.91	0.35	1.10	1.52	-0.82	-0.90	-1.43	4.17	0.05	7.45	1.12	1.79	
Foreign MStar MF Rank	35	36	25	36	33	35	50	42	24	67	32	56	55	18	Apr-07
Long Biased	-0.28	9.14	2.50	4.51	2.88		2.43	1.19	-2.99	4.04	3.62	9.56		4.25	Jul-12
HFRI Fund of Funds Composite Index	<u>-0.82</u>	5.29	0.08	<u>3.18</u>	1.96	2.68	<u>-4.02</u>	<u>7.77</u>	0.51	<u>-0.27</u>	3.36	8.96	4.79	3.42	Jul-12
Over/Under	0.54	3.85	2.42	1.33	0.92		6.45	-6.58	-3.50	4.31	0.26	0.60		0.83	
S&P 500	1.70	20.55	4.25	13.39	10.84	13.24	-4.38	21.83	11.96	1.38	13.69	32.39	16.00	13.73	Jul-12
Opportunistic Credit	-3.66	-0.06	-9.30	1.39	3.01		-5.68	7.08	14.52	2.35	2.32			3.94	Oct-13
HFRI ED: Distressed/Restructuring Index	<u>-1.71</u>	3.03	<u>-2.83</u>	4.35	1.84	5.08	<u>-1.70</u>	6.25	<u>15.15</u>	<u>-8.06</u>	<u>-1.39</u>	14.05	10.12	2.68	Oct-13
Over/Under	-1.95	-3.09	-6.47	-2.96	1.17		-3.98	0.83	-0.63	10.41	3.71			1.26	

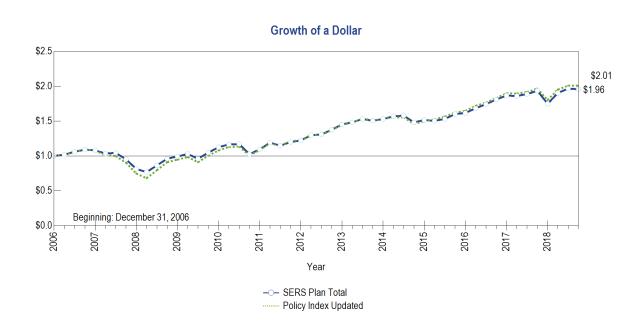
Capital Preservation Index: Barclays Aggregate: 43.5%; HFRI Conservative: 34.8%; Barclays High Yield: 21.8%

Domestic Equity Index: S&P 500: 65.63%; Russell 2500: 34.37%

International Index: MSCI ACWI ex US: 68.2%; MSCI ACWI ex US Small Cap: 18.2%; MSCI Emerging Mkts: 13.6%

Total Account Performance Summary

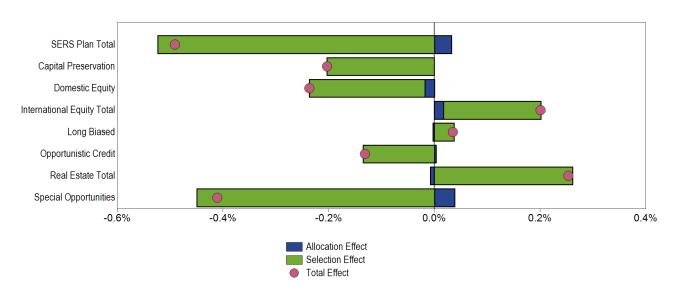
	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	Inception Ir	nception Date
Real Estate Total	4.47	15.29	14.14	9.10	10.52	13.20	3.68	10.01	8.09	6.66	25.00	8.71	15.17	6.02	Apr-07
NCREIF-ODCE	<u>1.31</u>	<u>3.77</u>	<u>5.59</u>	<u>7.30</u>	9.34	10.86	<u>8.35</u>	7.62	<u>8.76</u>	<u>15.02</u>	12.48	13.94	10.94	<u>5.91</u>	Apr-07
Over/Under	3.16	11.52	8.55	1.80	1.18	2.34	-4.67	2.39	-0.67	-8.36	12.52	-5.23	4.23	0.11	
FTSE NAREIT All REIT	7.24	27.37	19.58	9.02	10.90	13.30	-4.10	9.27	9.28	2.29	27.15	3.21	20.14	5.99	Apr-07
US Real Estate Equity Rank	95	99	80	35	59	67	1	11	32	7	94	7	98	74	Apr-07
Special Opportunities	-12.13	-2.50	-13.83	-0.43	-1.75		-11.43	25.32	-21.90	2.13	25.88	31.60		4.97	Jul-12
Russell 3000	<u>1.16</u>	20.09	<u>2.92</u>	<u>12.83</u>	<u>10.44</u>	<u>13.08</u>	<u>-5.24</u>	<u>21.13</u>	<u>12.73</u>	0.48	<u>12.56</u>	<u>33.55</u>	<u>16.42</u>	<u>13.47</u>	Jul-12
Over/Under	-13.29	-22.59	-16.75	-13.26	-12.19		-6.19	4.19	-34.63	1.65	13.32	-1.95		-8.50	



Attribution Summary
3 Months Ending September 30, 2019

	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Total Effects
Capital Preservation	0.4%	1.3%	-0.9%	-0.2%	0.0%	-0.2%
Domestic Equity	-0.1%	0.7%	-0.7%	-0.2%	0.0%	-0.2%
International Equity Total	-1.1%	-2.0%	0.9%	0.2%	0.0%	0.2%
Long Biased	-0.3%	-0.8%	0.5%	0.0%	0.0%	0.0%
Opportunistic Credit	-3.7%	-1.7%	-2.0%	-0.1%	0.0%	-0.1%
Real Estate Total	4.5%	1.3%	3.2%	0.3%	0.0%	0.3%
Special Opportunities	-12.1%	1.2%	-13.3%	-0.4%	0.0%	-0.4%
Total	-0.5%	0.0%	-0.5%	-0.5%	0.0%	-0.5%

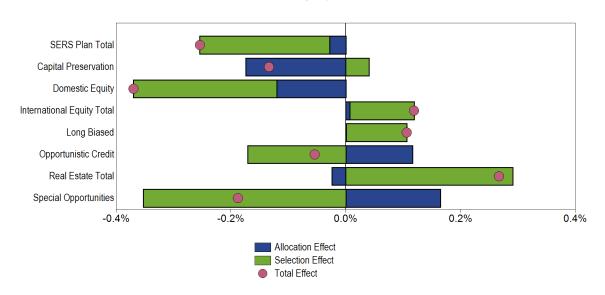
Attribution Effects
3 Months Ending September 30, 2019



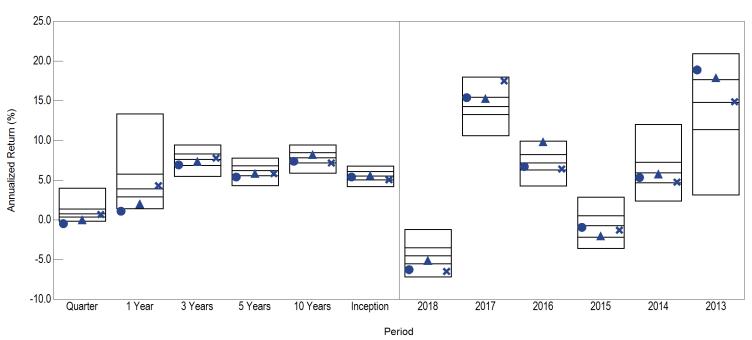
Attribution Summary
2 Years 9 Months Ending September 30, 2019

	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Total Effects
Capital Preservation	4.3%	4.2%	0.1%	0.0%	-0.2%	-0.1%
Domestic Equity	10.6%	11.4%	-0.9%	-0.2%	-0.1%	-0.4%
International Equity Total	7.9%	7.4%	0.5%	0.1%	0.0%	0.1%
Long Biased	4.6%	3.2%	1.4%	0.1%	0.0%	0.1%
Opportunistic Credit	0.3%	2.7%	-2.4%	-0.2%	0.1%	-0.1%
Real Estate Total	10.5%	7.2%	3.3%	0.3%	0.0%	0.3%
Special Opportunities	2.9%	12.4%	-9.5%	-0.4%	0.2%	-0.2%
Total	7.2%	7.4%	-0.3%	-0.2%	0.0%	-0.3%

Attribution Effects
2 Years 9 Months Ending September 30, 2019

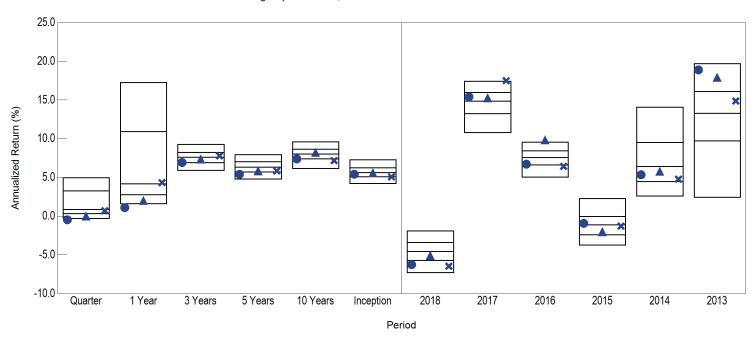




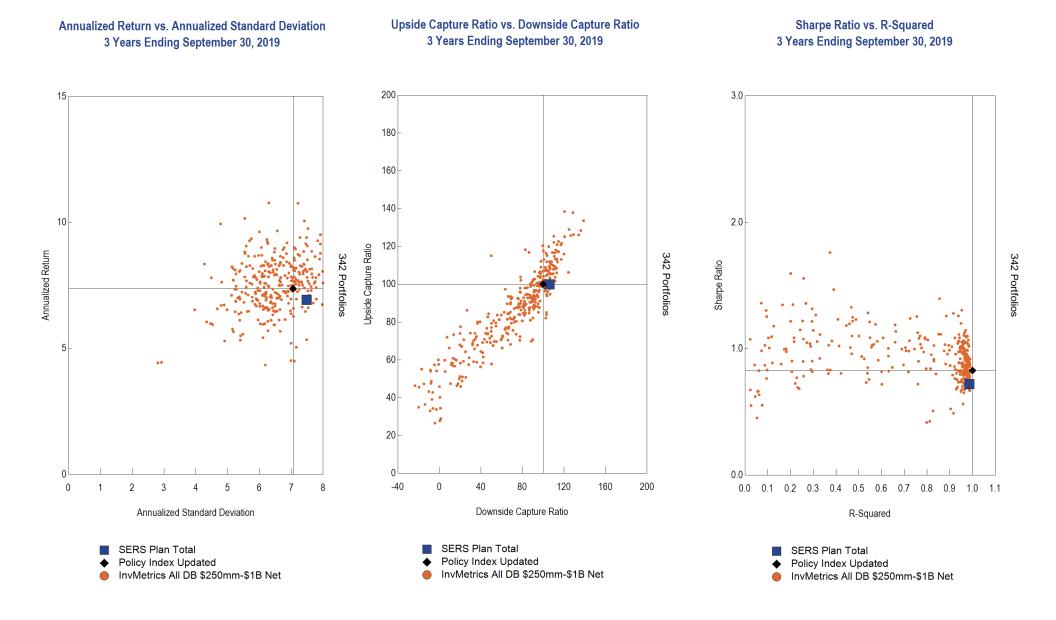


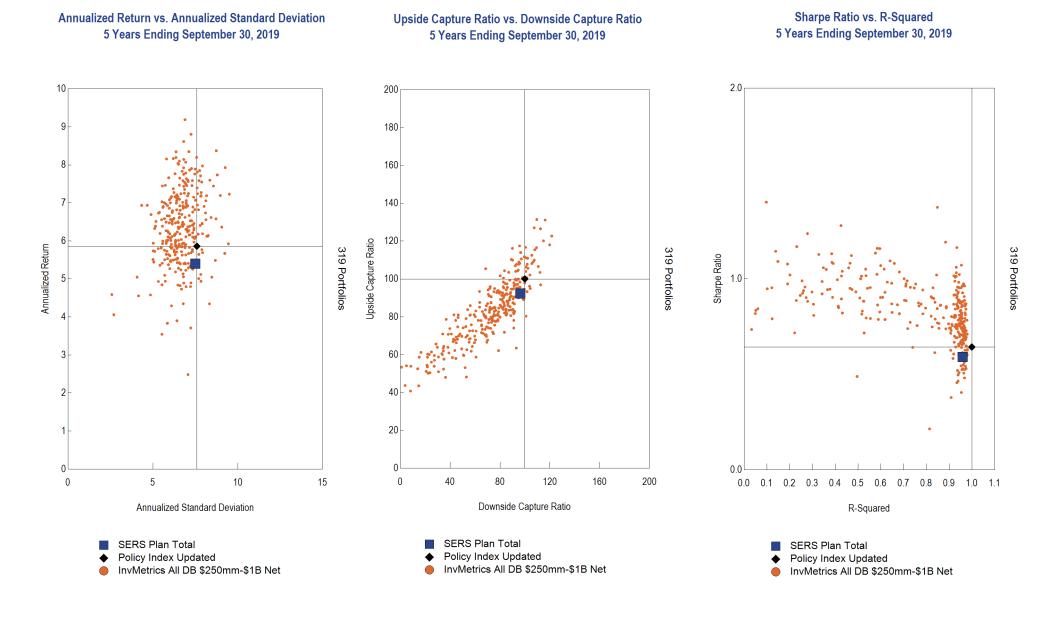
	Return (Ranl	k)										
5th Percentile	4.0	13.4	9.4	7.8	9.4	6.8	-1.2	18.0	9.9	2.9	12.0	20.9
25th Percentile	1.4	5.8	8.4	6.9	8.5	6.1	-3.5	15.5	8.3	0.6	7.3	17.7
Median	0.8	4.0	7.7	6.3	7.9	5.6	-4.5	14.3	7.2	-0.7	6.0	14.9
75th Percentile	0.4	2.9	6.9	5.6	7.2	5.1	-5.5	13.3	6.3	-2.1	4.7	11.4
95th Percentile	-0.1	1.5	5.5	4.3	5.9	4.2	-7.1	10.7	4.3	-3.5	2.4	3.2
# of Portfolios	581	577	554	520	405	348	538	326	321	330	285	268
SERS Plan Total	-0.5 (98)	1.1 (98)	6.9 (75)	5.4 (81)	7.4 (69)	5.4 (61)	-6.3 (87)	15.4 (27)	6.7 (66)	-0.9 (55)	5.3 (66)	18.9 (17)
Policy Index Updated	0.0 (92)	2.0 (91)	7.4 (59)	5.9 (68)	8.2 (34)	5.6 (49)	-5.1 (68)	15.3 (29)	9.9 (6)	-2.0 (72)	5.8 (54)	17.9 (24)
★ 70/30 ACWI/Barclays Aggregate Bond	0.7 (57)	4.3 (44)	7.8 (44)	5.8 (69)	7.2 (77)	5.1 (76)	-6.5 (89)	17.5 (8)	6.4 (73)	-1.3 (60)	4.8 (74)	14.9 (50)

InvMetrics All DB \$250mm-\$1B Net Return Comparison Ending September 30, 2019



	Return (Ran	k)										
5th Percentile	5.0	17.3	9.3	7.9	9.6	7.3	-1.9	17.4	9.6	2.2	14.1	19.7
25th Percentile	3.3	11.0	8.3	7.1	8.7	6.3	-3.4	16.0	8.5	0.0	9.6	16.1
Median	0.9	4.2	7.6	6.4	8.1	5.6	-4.5	14.9	7.6	-1.1	6.4	13.3
75th Percentile	0.4	2.8	6.9	5.7	7.4	5.1	-5.7	13.3	6.6	-2.4	4.5	9.8
95th Percentile	-0.3	1.6	5.9	4.8	6.2	4.2	-7.2	10.8	5.1	-3.7	2.6	2.5
# of Portfolios	360	359	342	319	255	225	326	237	248	231	212	190
SERS Plan Total	-0.5 (98)	1.1 (98)	6.9 (76)	5.4 (87)	7.4 (76)	5.4 (63)	-6.3 (83)	15.4 (42)	6.7 (74)	-0.9 (47)	5.3 (63)	18.9 (8)
▲ Policy Index Updated	0.0 (90)	2.0 (91)	7.4 (60)	5.9 (70)	8.2 (44)	5.6 (53)	-5.1 (62)	15.3 (43)	9.9 (4)	-2.0 (69)	5.8 (61)	17.9 (14)
★ 70/30 ACWI/Barclays Aggregate Bond	0.7 (60)	4.3 (50)	7.8 (45)	5.8 (72)	7.2 (84)	5.1 (77)	-6.5 (86)	17.5 (4)	6.4 (78)	-1.3 (56)	4.8 (73)	14.9 (37)







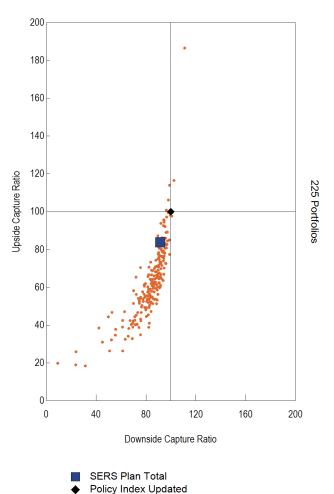
Annualized Return 225 Portfolios 20 0 5 10 15 25 **Annualized Standard Deviation**

SERS Plan Total

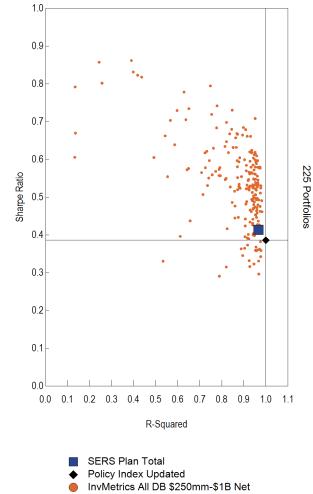
Policy Index Updated

InvMetrics All DB \$250mm-\$1B Net

Upside Capture Ratio vs. Downside Capture Ratio 12 Years 9 Months Ending September 30, 2019



Sharpe Ratio vs. R-Squared
12 Years 9 Months Ending September 30, 2019



InvMetrics All DB \$250mm-\$1B Net

23

Spokane Employees' Retirement System As of September 30, 2019

Asset Class Performance

	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	Inception (%)	Inception Date
Capital Preservation	0.37	6.98	4.47	4.31	3.45	-0.94	5.85	8.12	-1.74	1.65	2.70	3.60	Jul-12
Capital Preservation Index	<u>1.25</u>	<u>7.78</u>	6.25	3.70	3.38	<u>-0.72</u>	4.60	<u>5.43</u>	<u>-0.58</u>	4.23	3.33	<u>3.80</u>	Jul-12
Over/Under	-0.88	-0.80	-1.78	0.61	0.07	-0.22	1.25	2.69	-1.16	-2.58	-0.63	-0.20	
Total Return Bond	2.28	9.09	10.44	3.47		-0.09	4.20					3.47	Sep-16
BBgBarc US Aggregate TR	<u>2.27</u>	8.52	10.30	<u>2.92</u>	3.38	0.01	<u>3.54</u>	2.65	0.55	<u>5.97</u>	-2.02	<u>2.92</u>	Sep-16
Over/Under	0.01	0.57	0.14	0.55		-0.10	0.66					0.55	
Intermediate Core Bond MStar MF Rank	36	28	26	8		38	38					8	Sep-16
High Yield	-0.63	7.23	1.47	4.63	3.67	-3.46	8.22	16.67	-7.05	0.68	7.00	4.95	Jul-12
BBgBarc US High Yield TR	<u>1.33</u>	<u>11.41</u>	<u>6.36</u>	<u>6.07</u>	<u>5.37</u>	<u>-2.08</u>	<u>7.50</u>	<u>17.13</u>	<u>-4.47</u>	<u>2.45</u>	<u>7.44</u>	<u>6.32</u>	Jul-12
Over/Under	-1.96	-4.18	-4.89	-1.44	-1.70	-1.38	0.72	-0.46	-2.58	-1.77	-0.44	-1.37	
High Yield Bond MStar MF Rank	97	88	97	86	84	74	18	13	92	70	51	87	Jul-12
Absolute Return	-0.77	5.52	1.19	4.23	3.55	-1.11	5.33	7.75	0.29	3.15	4.65	3.87	Jul-12
HFRI FOF: Conservative Index	<u>-0.08</u>	<u>4.57</u>	<u>1.18</u>	<u>3.13</u>	<u>2.04</u>	<u>-0.87</u>	<u>4.12</u>	<u>1.89</u>	0.37	<u>3.14</u>	<u>7.70</u>	<u>3.34</u>	Jul-12
Over/Under	-0.69	0.95	0.01	1.10	1.51	-0.24	1.21	5.86	-0.08	0.01	-3.05	0.53	
BBgBarc US Aggregate TR	2.27	8.52	10.30	2.92	3.38	0.01	3.54	2.65	0.55	5.97	-2.02	2.85	Jul-12
Domestic Equity	-0.07	19.24	-0.19	11.22	9.11	-7.80	19.86	10.91	-0.32	11.10	36.38	12.47	Jul-12
Domestic Equity Index	<u>0.67</u>	<u>19.61</u>	<u>1.37</u>	<u>12.10</u>	<u>10.10</u>	<u>-6.30</u>	<u>20.11</u>	<u>13.92</u>	<u>-0.06</u>	<u>11.44</u>	<u>33.91</u>	<u>13.13</u>	Jul-12
Over/Under	-0.74	-0.37	-1.56	-0.88	-0.99	-1.50	-0.25	-3.01	-0.26	-0.34	2.47	-0.66	
All Cap Blend MStar MF Rank	64	42	51	39	39	45	37	70	33	38	35	39	Jul-12
Domestic Large Cap Equity	0.14	19.39	1.00	11.68	8.88	-7.70	22.54	8.24	-0.32	12.85	34.81	7.92	Apr-07
S&P 500	<u>1.70</u>	<u>20.55</u>	<u>4.25</u>	<u>13.39</u>	<u>10.84</u>	<u>-4.38</u>	<u>21.83</u>	<u>11.96</u>	<u>1.38</u>	<u>13.69</u>	32.39	<u>8.37</u>	Apr-07
Over/Under	-1.56	-1.16	-3.25	-1.71	-1.96	-3.32	0.71	-3.72	-1.70	-0.84	2.42	-0.45	
Large Blend MStar MF Rank	90	59	73	63	63	78	24	83	53	39	26	54	Apr-07
Domestic Small/Mid Equity	-0.49	18.94	-2.52	10.25	9.25	-8.05	14.91	15.37	-0.39	8.69	38.60	12.25	Jul-12
Russell 2500	<u>-1.28</u>	<u>17.72</u>	<u>-4.04</u>	<u>9.51</u>	<u>8.57</u>	<u>-10.00</u>	<u>16.81</u>	<u>17.59</u>	<u>-2.90</u>	<u>7.07</u>	<u>36.80</u>	<u>11.85</u>	Jul-12
Over/Under	0.79	1.22	1.52	0.74	0.68	1.95	-1.90	-2.22	2.51	1.62	1.80	0.40	
SMID Blend MStar MF Rank	47	23	26	16	15	12	39	75	10	24	34	15	Jul-12

As of September 30, 2019

Asset Class Performance

	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	Inception (%)	Inception Date
	. ,		. ,	. ,									
International Equity Total	-1.13	13.89	-0.22	6.35	4.16	-15.78	28.45	3.91	-1.32	-3.58	20.93	4.24	Apr-07
International Equity Index	<u>-2.02</u>	<u>10.55</u>	<u>-2.13</u>	<u>6.00</u>	<u>3.06</u>	<u>-14.96</u>	<u>29.35</u>	<u>5.34</u>	<u>-5.49</u>	<u>-3.63</u>	<u>13.48</u>	<u>2.45</u>	Apr-07
Over/Under	0.89	3.34	1.91	0.35	1.10	-0.82	-0.90	-1.43	4.17	0.05	7.45	1.79	
Foreign MStar MF Rank	35	36	25	36	33	50	42	24	67	32	56	18	Apr-07
International Large Cap Equity	-1.11	14.71	0.95	6.70	4.83	-15.14	27.50	4.02	-1.13	-1.38	24.43	8.44	Jul-12
MSCI ACWI ex USA	<u>-1.80</u>	<u>11.56</u>	<u>-1.23</u>	<u>6.33</u>	<u>2.90</u>	<u>-14.20</u>	<u>27.19</u>	<u>4.50</u>	<u>-5.66</u>	<u>-3.87</u>	<u>15.29</u>	<u>5.87</u>	Jul-12
Over/Under	0.69	3.15	2.18	0.37	1.93	-0.94	0.31	-0.48	4.53	2.49	9.14	2.57	
Foreign Large Blend MStar MF Rank	39	16	11	14	5	51	31	23	56	12	14	4	Jul-12
International Small/Mid Cap Equity	0.38	16.43	-5.63	6.85	4.83	-20.33	37.08	-0.68	7.56	-12.10	28.79	8.10	Jul-12
MSCI ACWI xUS Small (net)	<u>-1.19</u>	<u>10.28</u>	<u>-5.63</u>	<u>4.64</u>	<u>3.98</u>	<u>-18.20</u>	<u>31.65</u>	<u>3.91</u>	<u>2.60</u>	<u>-4.03</u>	<u>19.73</u>	<u>7.21</u>	Jul-12
Over/Under	1.57	6.15	0.00	2.21	0.85	-2.13	5.43	-4.59	4.96	-8.07	9.06	0.89	
Emerging Markets Equity	-3.06	7.60	1.66	3.70	0.93	-14.62	23.58	7.03	-8.73	-2.07	6.06	3.43	Jul-12
MSCI Emerging Markets	<u>-4.25</u>	<u>5.90</u>	<u>-2.02</u>	<u>5.97</u>	<u>2.33</u>	<u>-14.58</u>	<u>37.28</u>	<u>11.19</u>	<u>-14.92</u>	<u>-2.19</u>	<u>-2.60</u>	<u>3.39</u>	Jul-12
Over/Under	1.19	1.70	3.68	-2.27	-1.40	-0.04	-13.70	-4.16	6.19	0.12	8.66	0.04	
Diversified Emerging Mkts MStar MF Rank	40	63	42	75	76	28	94	56	16	49	14	56	Jul-12
Long Biased	-0.28	9.14	2.50	4.51	2.88	2.43	1.19	-2.99	4.04	3.62	9.56	4.25	Jul-12
HFRI Fund of Funds Composite Index	<u>-0.82</u>	<u>5.29</u>	<u>0.08</u>	<u>3.18</u>	<u>1.96</u>	<u>-4.02</u>	<u>7.77</u>	<u>0.51</u>	<u>-0.27</u>	<u>3.36</u>	<u>8.96</u>	<u>3.42</u>	Jul-12
Over/Under	0.54	3.85	2.42	1.33	0.92	6.45	-6.58	-3.50	4.31	0.26	0.60	0.83	
S&P 500	1.70	20.55	4.25	13.39	10.84	-4.38	21.83	11.96	1.38	13.69	32.39	13.73	Jul-12
Opportunistic Credit	-3.66	-0.06	-9.30	1.39	3.01	-5.68	7.08	14.52	2.35	2.32		3.94	Oct-13
HFRI ED: Distressed/Restructuring Index	<u>-1.71</u>	<u>3.03</u>	<u>-2.83</u>	<u>4.35</u>	<u>1.84</u>	<u>-1.70</u>	<u>6.25</u>	<u>15.15</u>	<u>-8.06</u>	<u>-1.39</u>	<u>14.05</u>	<u>2.68</u>	Oct-13
Over/Under	-1.95	-3.09	-6.47	-2.96	1.17	-3.98	0.83	-0.63	10.41	3.71		1.26	
Real Estate Total	4.47	15.29	14.14	9.10	10.52	3.68	10.01	8.09	6.66	25.00	8.71	6.02	Apr-07
NCREIF-ODCE	<u>1.31</u>	3.77	<u>5.59</u>	<u>7.30</u>	9.34	<u>8.35</u>	<u>7.62</u>	<u>8.76</u>	<u>15.02</u>	12.48	13.94	<u>5.91</u>	Apr-07
Over/Under	3.16	11.52	8.55	1.80	1.18	-4.67	2.39	-0.67	-8.36	12.52	-5.23	0.11	
FTSE NAREIT All REIT	7.24	27.37	19.58	9.02	10.90	-4.10	9.27	9.28	2.29	27.15	3.21	5.99	Apr-07
US Real Estate Equity Rank	95	99	80	35	59	1	11	32	7	94	7	74	Apr-07
Special Opportunities	-12.13	-2.50	-13.83	-0.43	-1.75	-11.43	25.32	-21.90	2.13	25.88	31.60	4.97	Jul-12
Russell 3000	<u>1.16</u>	20.09	2.92	12.83	10.44	<u>-5.24</u>	21.13	12.73	0.48	12.56	33.55	13.47	Jul-12
Over/Under	-13.29	-22.59	-16.75	-13.26	-12.19	-6.19	4.19	-34.63	1.65	13.32	-1.95	-8.50	



Manager Commentary

- Vanguard Mid Cap Growth This is a multi-manager fund currently sub-advised by Frontier Capital (45% AUM), Wellington (5%) and RS Investments (50%). The fund was initially placed on watch for underperformance and subsequently due to manager turnover. In December of 2016, Vanguard (VG) replaced long-time manager Chartwell Partners with RS Investments based on a combination of personnel changes, performance and style drift. In December of 2018 VG replaced long-time manager William Blair with Frontier and Wellington citing personnel turnover and lack of acceptable succession planning despite strong performance. Performance post these changes continues to be mediocre. RS Investments has performed poorly in the nearly three years since taking over their allocation of the portfolio. While Frontier and Wellington have demonstrated better results but over a limited time frame. We are increasingly concerned with the poor execution from RS, particularly in the most recent quarter-to-date cyclical rally.
- Sterling Mid Cap Value Sterling Mid Value has just recently gone on watch status for underperformance, including significant underperformance (-600bps) in the final two quarters of 2018. Part of this underperformance is due to a structural (long-term/consistent) underweight to Utilities and REITS (top-performing sectors in 4Q18). They simply feel that these sectors of the market generate below average returns on capital over a full cycle. While we agree with this assessment, it creates additional tracking error vs. the policy index and peer group that investors need to be aware of. As expected, they performed well in the market rebound to start 2019 and the most recent quarter-to-date cyclical rally consistent with our expectations. There are no fundamental changes to the strategy or key research personnel.
- **OrbiMed Partners** This dedicated long-biased healthcare strategy is on watch for poor performance. They have taken a strong macro position that biotechnology stocks are trading near all-time low valuations versus traditional pharmaceutical companies. As a result, they have structured a portfolio that is heavily long-biased biotech stocks and short pharmaceutical stocks. While we tend to agree with their relative valuation assessment, the current portfolio construction has created a highly volatile return pattern that is dependent on the reversion of valuation spreads between biotech and pharmaceutical stocks. Due to the excessive volatility, we have recently trimmed the position size.
- Hotchkis & Wiley Diversified Value The Fund was placed on watch 1Q19 for performance in violation of policy parameters. This was triggered by extremely poor performance in 4Q2018 in which the strategy underperformed its style benchmark by nearly 700 bps and landed in the bottom decile of its peer universe. The drivers of short-term performance are large overweights to the poorly performing Energy and Financials sectors. The manager continues to find the best values in these out of favor sectors. The Fund has rebounded strongly YTD 2019 and while 5-year performance continues to underperform, longer-term performance has been exceptional. Historically, the relatively concentrated, deep value nature of this strategy has led to significant tracking error vs. both style benchmark and peers requiring a patient long-term investment approach.

- Frontier Phocas Small Cap Value The Fund was placed on watch 1Q19 for performance in violation of policy parameters. Like Hotchkis & Wiley, Phocas continues to find their best ideas in Energy and Financials two of the worst performing sectors in 2018. Historically, the Fund has generated its best alpha in both sectors, and we don't believe this will be any different going forward. There has been no turnover within the research team and the lead portfolio manager has been on the Fund since its inception.
- Post Limited Term HiYld The Fund was placed on watch 2Q19 for personnel change. Lead PM and CIO Henry Chyung announced deteriorating health conditions that prevent him from continuing in his current capacity. He will be replaced by Jeff Stroll who has been working with Mr. Chyung for the past seven years and spent the last 2 years mentoring with Mr. Chyung on the higher-level portfolio and risk management aspects of his CIO role. The team will retain the hands on team approach where sector PM's are really high level research analysts and very hands on and in the weeds. Post has hired a very senior experienced sector PM from MacKay Shields to take over much of Mr. Stroll's sector specific PM responsibilities and allow him to elevate to higher PM functions. The strategy has been placed on watch given the high-level role Mr. Chyung served. The Hyas Group research team met with Post during the quarter and the transition is going smoothly.
- Hotchkis & Wiley High Yield The Fund was placed on watch 2Q19 for performance in violation of policy parameters. There are two primary drivers of underperformance which have persisted for well over a year now. These include; 1) overweight to and underperformance of small/mid cap issues, 2) significant exposure to a continued selloff in the energy sector. The current portfolio has a 2% yield advantage over the index, yielding 7.1% vs. 5.0%. The road to recovery in Energy could be long and small caps could continue to be under pressure as everyone sits and waits for a recession. That said, in the face of no cyclical reversions H&W should be able to use their current yield advantage to slowly claw back relative performance. Conviction is key here, and we may need a longer time horizon to recoup our performance shortfall.

As of September 30, 2019

	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	Inception (%)	Inception Date
Capital Preservation															
Sterling Core Bond	2.16	9.14	10.27	3.40	3.71	4.38	-0.35	4.33	3.75	0.54	5.99	-0.97	6.14	3.23	Aug-16
BBgBarc US Aggregate TR	<u>2.27</u>	<u>8.52</u>	<u>10.30</u>	<u>2.92</u>	<u>3.38</u>	<u>3.75</u>	<u>0.01</u>	<u>3.54</u>	<u>2.65</u>	<u>0.55</u>	<u>5.97</u>	<u>-2.02</u>	<u>4.21</u>	<u>2.71</u>	Aug-16
Excess Return	-0.11	0.62	-0.03	0.48	0.33	0.63	-0.36	0.79	1.10	-0.01	0.02	1.05	1.93	0.52	
Intermediate Core Bond MStar MF Rank	63	25	38	11	10	15	53	34	40	29	35	35	66	12	Aug-16
Hotchkis & Wiley High Yield	-0.62	7.30	1.54	4.66	4.10	7.76	-3.43	8.24	16.02	-4.30	1.09	8.71	17.96	3.98	Jun-15
BBgBarc US High Yield TR	<u>1.33</u>	<u>11.41</u>	<u>6.36</u>	6.07	<u>5.37</u>	<u>7.94</u>	<u>-2.08</u>	<u>7.50</u>	<u>17.13</u>	<u>-4.47</u>	<u>2.45</u>	<u>7.44</u>	<u>15.81</u>	<u>5.49</u>	Jun-15
Excess Return	-1.95	-4.11	-4.82	-1.41	-1.27	-0.18	-1.35	0.74	-1.11	0.17	-1.36	1.27	2.15	-1.51	
High Yield Bond MStar MF Rank	97	88	96	85	69	16	73	17	20	61	65	20	11	78	Jun-15
Absolute Return															
Post Lmtd Term High Yield	1.59	7.12	5.43	3.78	3.47	5.69	0.34	3.19	5.66	0.84	2.96	7.49	9.61	5.40	Jun-10
HFRI FOF: Conservative Index	<u>-0.08</u>	<u>4.57</u>	<u>1.18</u>	<u>3.13</u>	<u>2.04</u>	2.73	<u>-0.87</u>	<u>4.12</u>	<u>1.89</u>	<u>0.37</u>	<u>3.14</u>	<u>7.70</u>	<u>4.22</u>	<u>2.81</u>	Jun-10
Excess Return	1.67	2.55	4.25	0.65	1.43	2.96	1.21	-0.93	3.77	0.47	-0.18	-0.21	5.39	2.59	
BBgBarc US Aggregate TR	2.27	8.52	10.30	2.92	3.38	3.75	0.01	3.54	2.65	0.55	5.97	-2.02	4.21	3.45	Jun-10
Rimrock Low Volatility Offshore	-0.80	1.66	1.05	3.31	2.04	5.63	2.01	4.40	4.90	-1.90	2.31	7.82	11.33	4.60	Jun-10
HFRI FOF: Conservative Index	<u>-0.08</u>	<u>4.57</u>	<u>1.18</u>	<u>3.13</u>	<u>2.04</u>	2.73	<u>-0.87</u>	<u>4.12</u>	<u>1.89</u>	<u>0.37</u>	<u>3.14</u>	<u>7.70</u>	4.22	<u>2.81</u>	Jun-10
Excess Return	-0.72	-2.91	-0.13	0.18	0.00	2.90	2.88	0.28	3.01	-2.27	-0.83	0.12	7.11	1.79	
BBgBarc US Aggregate TR	2.27	8.52	10.30	2.92	3.38	3.75	0.01	3.54	2.65	0.55	5.97	-2.02	4.21	3.45	Jun-10
Castine Partners II **	-1.63	8.83	-3.97	6.62	6.87	4.31	-7.34	9.34	15.57	6.57	7.48	6.16	2.53	5.52	Jun-11
HFRI FOF: Conservative Index	<u>-0.08</u>	<u>4.57</u>	<u>1.18</u>	<u>3.13</u>	<u>2.04</u>	2.73	<u>-0.87</u>	<u>4.12</u>	<u>1.89</u>	<u>0.37</u>	<u>3.14</u>	<u>7.70</u>	<u>4.22</u>	<u>2.53</u>	Jun-11
Excess Return	-1.55	4.26	-5.15	3.49	4.83	1.58	-6.47	5.22	13.68	6.20	4.34	-1.54	-1.69	2.99	
BBgBarc US Aggregate TR	2.27	8.52	10.30	2.92	3.38	3.75	0.01	3.54	2.65	0.55	5.97	-2.02	4.21	3.40	Jun-11
Polar Long Short Fund	-2.00	5.64	3.66	3.24	4.01	3.62	0.24	4.20	6.60	1.73	3.46	5.60	4.42	4.31	Sep-11
HFRI FOF: Conservative Index	<u>-0.08</u>	<u>4.57</u>	<u>1.18</u>	<u>3.13</u>	<u>2.04</u>	<u>2.73</u>	<u>-0.87</u>	<u>4.12</u>	<u>1.89</u>	0.37	<u>3.14</u>	<u>7.70</u>	<u>4.22</u>	<u>3.12</u>	Sep-11
Excess Return	-1.92	1.07	2.48	0.11	1.97	0.89	1.11	0.08	4.71	1.36	0.32	-2.10	0.20	1.19	
BBgBarc US Aggregate TR	2.27	8.52	10.30	2.92	3.38	3.75	0.01	3.54	2.65	0.55	5.97	-2.02	4.21	3.02	Sep-11

^{**} Performance prior to 7/1/18 is representative of Castine Partners I.

	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	Inception (%)	nception Date
Domestic Equity															
Large Cap Equity															
Hotchkis & Wiley Diversified Value I	-0.79	18.52	-3.46	9.66	6.64	10.95	-14.74	18.39	19.94	-7.90	12.74	36.54	19.78	10.25	Sep-08
Russell 1000 Value	<u>1.36</u>	<u>17.81</u>	4.00	9.43	<u>7.79</u>	<u>11.46</u>	<u>-8.27</u>	<u>13.66</u>	<u>17.34</u>	<u>-3.83</u>	<u>13.45</u>	<u>32.53</u>	<u>17.51</u>	<u>9.25</u>	Sep-08
Excess Return	-2.15	0.71	-7.46	0.23	-1.15	-0.51	-6.47	4.73	2.60	-4.07	-0.71	4.01	2.27	1.00	
S&P 500	1.70	20.55	4.25	13.39	10.84	13.24	-4.38	21.83	11.96	1.38	13.69	32.39	16.00	11.24	Sep-08
Large Value MStar MF Rank	97	28	94	53	74	54	97	23	9	90	20	14	8	22	Sep-08
Fidelity S&P 500 Inst	1.69	20.55	4.24	13.38	10.83	13.23	-4.40	21.81	11.97	1.38	13.66	32.35	15.98	20.55	Jan-19
S&P 500	<u>1.70</u>	<u>20.55</u>	<u>4.25</u>	<u>13.39</u>	<u>10.84</u>	<u>13.24</u>	<u>-4.38</u>	<u>21.83</u>	<u>11.96</u>	<u>1.38</u>	<u>13.69</u>	32.39	<u>16.00</u>	<u>20.55</u>	Jan-19
Excess Return	-0.01	0.00	-0.01	-0.01	-0.01	-0.01	-0.02	-0.02	0.01	0.00	-0.03	-0.04	-0.02	0.00	
Large Blend MStar MF Rank	42	32	33	21	15	13	22	32	27	24	21	45	41	32	Jan-19
MFS Large Cap Growth R6	1.15	26.96	7.56	18.83	14.61	15.95	2.68	30.99	2.55	7.49	8.88	34.81	16.51	-1.12	Sep-19
Russell 1000 Growth	<u>1.49</u>	23.30	<u>3.71</u>	<u>16.89</u>	<u>13.39</u>	<u>14.94</u>	<u>-1.51</u>	<u>30.21</u>	<u>7.08</u>	<u>5.67</u>	<u>13.05</u>	<u>33.48</u>	<u>15.26</u>	<u>0.01</u>	Sep-19
Excess Return	-0.34	3.66	3.85	1.94	1.22	1.01	4.19	0.78	-4.53	1.82	-4.17	1.33	1.25	-1.13	
S&P 500	1.70	20.55	4.25	13.39	10.84	13.24	-4.38	21.83	11.96	1.38	13.69	32.39	16.00	1.87	Sep-19
Large Growth MStar MF Rank	27	7	13	8	7	4	13	30	54	21	68	43	38	72	Sep-19
Small/Mid Cap Equity															
Sterling Mid Cap Value	1.00	20.73	-2.12	6.73	6.64	10.64	-17.67	14.27	16.97	-1.71	5.85	46.25	12.50	10.08	Sep-08
Russell MidCap Value	<u>1.22</u>	<u>19.47</u>	<u>1.60</u>	<u>7.82</u>	<u>7.55</u>	<u>12.29</u>	<u>-12.29</u>	<u>13.34</u>	<u>20.00</u>	<u>-4.78</u>	<u>14.75</u>	<u>33.46</u>	<u>18.51</u>	<u>10.37</u>	Sep-08
Excess Return	-0.22	1.26	-3.72	-1.09	-0.91	-1.65	-5.38	0.93	-3.03	3.07	-8.90	12.79	-6.01	-0.29	
Russell MidCap	0.48	21.93	3.19	10.69	9.10	13.07	-9.06	18.52	13.80	-2.44	13.22	34.76	17.28	11.45	Sep-08
Mid-Cap Value MStar MF Rank	48	27	58	63	52	66	85	37	69	19	87	2	85	43	Sep-08
Fidelity Mid Cap Index	0.44	21.90	3.23	10.67	9.09	13.01	-9.05	18.47	13.86	-2.44	13.11	35.17	16.01	21.90	Jan-19
Russell MidCap	0.48	<u>21.93</u>	<u>3.19</u>	<u>10.69</u>	<u>9.10</u>	<u>13.07</u>	<u>-9.06</u>	<u>18.52</u>	<u>13.80</u>	<u>-2.44</u>	<u>13.22</u>	<u>34.76</u>	<u>17.28</u>	<u>21.93</u>	Jan-19
Excess Return	-0.04	-0.03	0.04	-0.02	-0.01	-0.06	0.01	-0.05	0.06	0.00	-0.11	0.41	-1.27	-0.03	
Mid-Cap Blend MStar MF Rank	43	19	19	21	11	5	24	22	61	37	8	47	62	19	Jan-19

	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	Inception I (%)	nception Date
Vanguard Mid Cap Growth	-2.98	23.87	1.60	13.75	9.66	12.83	-3.29	22.01	0.44	0.21	10.86	34.15	14.84	9.43	Jun-14
Russell MidCap Growth	<u>-0.67</u>	<u>25.23</u>	<u>5.20</u>	<u>14.50</u>	<u>11.12</u>	<u>14.08</u>	<u>-4.75</u>	<u>25.27</u>	<u>7.33</u>	<u>-0.20</u>	<u>11.90</u>	<u>35.74</u>	<u>15.81</u>	<u>10.87</u>	Jun-14
Excess Return	-2.31	-1.36	-3.60	-0.75	-1.46	-1.25	1.46	-3.26	-6.89	0.41	-1.04	-1.59	-0.97	-1.44	
Mid-Cap Growth MStar MF Rank	74	47	62	53	65	59	29	72	93	41	21	61	47	64	Jun-14
Frontier Phocas Small Cap Value I	-0.75	15.52	-8.31	5.05	5.50	10.25	-17.52	8.17	23.31	-4.35	7.19	45.63	9.75	9.83	Dec-11
Russell 2000 Value	<u>-0.57</u>	<u>12.82</u>	<u>-8.24</u>	<u>6.54</u>	<u>7.17</u>	<u>10.06</u>	<u>-12.86</u>	<u>7.84</u>	<u>31.74</u>	<u>-7.47</u>	4.22	<u>34.52</u>	<u>18.05</u>	<u>10.41</u>	Dec-11
Excess Return	-0.18	2.70	-0.07	-1.49	-1.67	0.19	-4.66	0.33	-8.43	3.12	2.97	11.11	-8.30	-0.58	
Russell 2000	-2.40	14.18	-8.89	8.23	8.19	11.19	-11.01	14.65	21.31	-4.41	4.89	38.82	16.35	11.24	Dec-11
Small Value MStar MF Rank	48	28	45	65	52	41	78	60	71	36	23	3	95	46	Dec-11
Fidelity Small Cap Index	-2.34	14.27	-8.79	8.39	8.39	11.72	-10.88	14.85	21.63	-4.24	5.19	37.80	18.26	14.27	Jan-19
Russell 2000	<u>-2.40</u>	<u>14.18</u>	<u>-8.89</u>	<u>8.23</u>	<u>8.19</u>	<u>11.19</u>	<u>-11.01</u>	<u>14.65</u>	<u>21.31</u>	<u>-4.41</u>	4.89	<u>38.82</u>	<u>16.35</u>	<u>14.18</u>	Jan-19
Excess Return	0.06	0.09	0.10	0.16	0.20	0.53	0.13	0.20	0.32	0.17	0.30	-1.02	1.91	0.09	
Small Blend MStar MF Rank	72	57	60	39	34	30	33	25	41	49	47	56	22	57	Jan-19
Champlain Small Cap	-1.26	17.70	-5.46	11.49	12.13	13.07	-3.03	10.90	27.93	-0.65	4.43	36.61	11.06	10.94	Sep-08
Russell 2000	<u>-2.40</u>	<u>14.18</u>	<u>-8.89</u>	<u>8.23</u>	<u>8.19</u>	<u>11.19</u>	<u>-11.01</u>	<u>14.65</u>	<u>21.31</u>	<u>-4.41</u>	<u>4.89</u>	<u>38.82</u>	<u>16.35</u>	<u>9.13</u>	Sep-08
Excess Return	1.14	3.52	3.43	3.26	3.94	1.88	7.98	-3.75	6.62	3.76	-0.46	-2.21	-5.29	1.81	
Russell 2000 Growth	-4.17	15.34	-9.63	9.79	9.08	12.25	-9.31	22.17	11.32	-1.38	5.60	43.30	14.59	10.42	Sep-08
Small Blend MStar MF Rank	50	23	33	4	1	4	1	65	8	11	60	68	88	7	Sep-08
Bridge City Small Growth	1.12	17.69	-0.27	14.27	14.37	15.44	0.97	15.93	17.96	6.81	7.06	40.81	10.99	14.75	Dec-11
Russell 2000 Growth	<u>-4.17</u>	<u>15.34</u>	<u>-9.63</u>	<u>9.79</u>	9.08	<u>12.25</u>	<u>-9.31</u>	<u>22.17</u>	<u>11.32</u>	<u>-1.38</u>	<u>5.60</u>	<u>43.30</u>	<u>14.59</u>	<u>12.15</u>	Dec-11
Excess Return	5.29	2.35	9.36	4.48	5.29	3.19	10.28	-6.24	6.64	8.19	1.46	-2.49	-3.60	2.60	
Russell 2000	-2.40	14.18	-8.89	8.23	8.19	11.19	-11.01	14.65	21.31	-4.41	4.89	38.82	16.35	11.27	Dec-11
Small Growth MStar MF Rank	5	51	16	31	6	3	15	77	20	4	15	61	79	10	Dec-11

	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	Inception (%)	Inception Date
lada madia and Familia.	(70)	(70)	(70)	(70)	(70)	(70)	(70)	(70)	(/0)	(70)	(70)	(70)	(70)	(70)	Date
International Equity							1= 1=								
Artisan International Value	-0.63	13.73	0.63	5.99	4.45	8.53	-15.42	24.06	5.74	-1.49	-0.39	30.72	22.48	8.58	Sep-08
MSCI ACWI ex USA Value	<u>-2.80</u>	<u>6.94</u>	<u>-4.51</u>	<u>5.24</u>	0.89	<u>3.05</u>	<u>-13.97</u>	<u>22.66</u>	<u>8.92</u>	<u>-10.06</u>	<u>-5.10</u>	<u>15.04</u>	<u>16.97</u>	<u>3.64</u>	Sep-08
Excess Return	2.17	6.79	5.14	0.75	3.56	5.48	-1.45	1.40	-3.18	8.57	4.71	15.68	5.51	4.94	
MSCI ACWI ex USA	-1.80	11.56	-1.23	6.33	2.90	4.45	-14.20	27.19	4.50	-5.66	-3.87	15.29	16.83	4.58	Sep-08
Foreign Large Value MStar MF Rank	23	1	5	10	3	1	23	41	29	45	2	1	8	1	Sep-08
EuroPacific Growth R6	-1.59	15.72	1.14	7.38	5.02	6.07	-14.91	31.17	1.01	-0.48	-2.29	20.58	19.64	4.30	Jun-08
MSCI ACWI ex USA	<u>-1.80</u>	<u>11.56</u>	<u>-1.23</u>	<u>6.33</u>	<u>2.90</u>	<u>4.45</u>	<u>-14.20</u>	<u>27.19</u>	<u>4.50</u>	<u>-5.66</u>	<u>-3.87</u>	<u>15.29</u>	<u>16.83</u>	<u>2.21</u>	Jun-08
Excess Return	0.21	4.16	2.37	1.05	2.12	1.62	-0.71	3.98	-3.49	5.18	1.58	5.29	2.81	2.09	
Foreign Large Blend MStar MF Rank	60	10	10	8	5	11	47	6	53	42	18	50	28	14	Jun-08
Victory Trivalent International Small Cap	0.38	16.43	-5.63	6.92	6.12	9.96	-20.21	37.13	-0.70	8.20	-0.20	32.98	24.32	6.28	Aug-15
MSCI ACWI xUS Small (net)	<u>-1.19</u>	<u>10.28</u>	<u>-5.63</u>	<u>4.64</u>	3.98	<u>6.13</u>	<u>-18.20</u>	<u>31.65</u>	<u>3.91</u>	2.60	<u>-4.03</u>	<u>19.73</u>	18.52	<u>5.86</u>	Aug-15
Excess Return	1.57	6.15	0.00	2.28	2.14	3.83	-2.01	5.48	-4.61	5.60	3.83	13.25	5.80	0.42	
MSCI ACWI ex USA	-1.80	11.56	-1.23	6.33	2.90	4.45	-14.20	27.19	4.50	-5.66	-3.87	15.29	16.83	5.67	Aug-15
Foreign Small/Mid Growth MStar MF Rank	4	19	48	37	43	25	61	43	36	60	26	24	22	46	Aug-15
Vanguard Emerging Markets Stock Index Fund	-3.60	8.07	1.27	5.26	2.01	3.86	-14.58	31.38	11.73	-15.35	0.60	6.16	10.77	-3.07	Jul-18
MSCI Emerging Markets	<u>-4.25</u>	<u>5.90</u>	<u>-2.02</u>	<u>5.97</u>	<u>2.33</u>	<u>3.37</u>	<u>-14.58</u>	<u>37.28</u>	<u>11.19</u>	<u>-14.92</u>	<u>-2.19</u>	<u>-2.60</u>	18.22	<u>-4.45</u>	Jul-18
Excess Return	0.65	2.17	3.29	-0.71	-0.32	0.49	0.00	-5.90	0.54	-0.43	2.79	8.76	-7.45	1.38	
Foreign Small/Mid Growth MStar MF Rank	79	99	9	62	95	99	25	96	1	99	12	99	99	29	Jul-18
ABS Emerging Markets Strategic Portfolio LP	-2.96	8.94	2.51	-			-14.99							2.51	Sep-18
MSCI Emerging Markets	<u>-4.25</u>	<u>5.90</u>	<u>-2.02</u>	<u>5.97</u>	<u>2.33</u>	3.37	<u>-14.58</u>	<u>37.28</u>	<u>11.19</u>	<u>-14.92</u>	<u>-2.19</u>	<u>-2.60</u>	18.22	<u>-2.02</u>	Sep-18
Excess Return	1.29	3.04	4.53				-0.41							4.53	
Diversified Emerging Mkts MStar MF Rank	39	49	36				33							36	Sep-18

As of September 30, 2019

	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	Inception I	Inception Date
Long Biased	(1.1)	(**)	(**)	(**)	(**)	(**)	(**)	(**)	(**)	(**)	(**)	(11)	(**)	(**)	
Weatherlow Offshore	-0.71	8.61	-0.20	3.90	2.86	4.63	-3.10	5.67	0.99	1.49	4.91	13.56	8.47	3.52	Mar-08
HFRI Fund of Funds Composite Index	<u>-0.82</u>	<u>5.29</u>	0.08	3.18	<u>1.96</u>	2.68	-4.02	7.77	0.51	-0.27	3.36	8.96	4.79	<u>1.41</u>	Mar-08
Excess Return	0.11	3.32	-0.28	0.72	0.90	1.95	0.92	-2.10	0.48	1.76	1.55	4.60	3.68	2.11	
S&P 500	1.70	20.55	4.25	13.39	10.84	13.24	-4.38	21.83	11.96	1.38	13.69	32.39	16.00	9.62	Mar-08
Opportunistic Credit															
Beach Point Select Fund	1.21	8.19	4.36	6.25	6.00		0.28	7.08	14.52	2.58	2.35	15.93	17.58	6.47	Oct-13
HFRI ED: Distressed/Restructuring Index	<u>-1.71</u>	3.03	<u>-2.83</u>	<u>4.35</u>	<u>1.84</u>	5.08	<u>-1.70</u>	6.25	<u>15.15</u>	<u>-8.06</u>	<u>-1.39</u>	14.05	10.12	2.68	Oct-13
Excess Return	2.92	5.16	7.19	1.90	4.16		1.98	0.83	-0.63	10.64	3.74	1.88	7.46	3.79	
HFRX Distressed Securities Index	0.30	3.90	-0.40	0.74	0.08	1.29	-9.50	3.14	19.72	-11.14	0.42	5.37	0.94	0.70	Oct-13
Contrarian Capital Fund I, LP	-9.00	-8.89	-22.37	-3.32	-1.29	5.42	-12.43	4.77	25.46	-7.89	0.45	17.00	24.54	-22.37	Sep-18
HFRI ED: Distressed/Restructuring Index	<u>-1.71</u>	<u>3.03</u>	<u>-2.83</u>	<u>4.35</u>	<u>1.84</u>	<u>5.08</u>	<u>-1.70</u>	6.25	<u>15.15</u>	<u>-8.06</u>	<u>-1.39</u>	<u>14.05</u>	<u>10.12</u>	<u>-2.83</u>	Sep-18
Excess Return	-7.29	-11.92	-19.54	-7.67	-3.13	0.34	-10.73	-1.48	10.31	0.17	1.84	2.95	14.42	-19.54	
HFRX Distressed Securities Index	0.30	3.90	-0.40	0.74	80.0	1.29	-9.50	3.14	19.72	-11.14	0.42	5.37	0.94	-0.40	Sep-18
Real Estate															
SERS Principal Global Investors REIT	7.83	30.54	22.05	9.63	11.97	13.97	-4.13	9.16	6.67	4.45	32.55	4.17	17.28	7.16	Dec-06
FTSE NAREIT All REIT	<u>7.24</u>	<u>27.37</u>	<u>19.58</u>	9.02	<u>10.90</u>	<u>13.30</u>	<u>-4.10</u>	9.27	9.28	2.29	<u>27.15</u>	<u>3.21</u>	<u>20.14</u>	<u>6.04</u>	Dec-06
Excess Return	0.59	3.17	2.47	0.61	1.07	0.67	-0.03	-0.11	-2.61	2.16	5.40	0.96	-2.86	1.12	
US Real Estate Equity Rank	33	22	20	22	16	33	37	24	60	49	30	21	76	35	Dec-06
Prime Property LLC	1.40	4.57	6.66	7.92	9.87	11.53	8.03	8.67	9.31	14.53	14.08	16.17	11.68	7.40	Oct-17
NCREIF - ODCE NET	<u>1.08</u>	<u>3.08</u>	<u>4.65</u>	<u>6.34</u>	<u>8.35</u>	<u>9.83</u>	<u>7.36</u>	<u>6.66</u>	<u>7.79</u>	<u>13.91</u>	<u>11.46</u>	<u>12.90</u>	<u>9.79</u>	<u>6.17</u>	Oct-17
Excess Return	0.32	1.49	2.01	1.58	1.52	1.70	0.67	2.01	1.52	0.62	2.62	3.27	1.89	1.23	
US Real Estate Equity Rank	99	99	99	53	75	93	1	25	20	1	99	1	99	95	Oct-17

Spokane Employees' Retirement System

As of September 30, 2019

Manager Performance

	3 Mo	YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs	2018	2017	2016	2015	2014	2013	2012	Inception	Inception
	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	Date
Special Opportunities															
OrbiMed Partners II	-8.88	17.36	-4.41	3.04	0.29	8.87	-18.43	25.30	-21.91	2.14	25.88	32.19	16.19	8.26	Dec-10
MSCI World Healthcare Index	<u>-1.25</u>	<u>8.40</u>	<u>-1.83</u>	<u>8.01</u>	<u>6.38</u>	<u>11.65</u>	<u>2.51</u>	<u>19.80</u>	<u>-6.81</u>	6.60	<u>18.10</u>	<u>36.27</u>	<u>17.54</u>	<u>12.20</u>	Dec-10
Excess Return	-7.63	8.96	-2.58	-4.97	-6.09	-2.78	-20.94	5.50	-15.10	-4.46	7.78	-4.08	-1.35	-3.94	
NASDAQ Biotech Index	-8.62	3.21	-17.99	1.61	2.26	14.44	-8.86	21.63	-21.35	11.77	34.40	65.97	32.29	14.72	Dec-10
S&P Composite 1500 Health Care	-2.37	5.83	-4.33	9.99	9.43	14.62	6.71	22.47	-2.05	7.41	24.79	42.19	18.35	15.08	Dec-10
Contrarian Emerging Markets Fund LP	-14.25	-10.42	-10.42	6.29	7.62	11.61	0.96	20.36	22.72	14.48	-1.97	14.56	23.32	-10.42	Sep-18
HFRI Emerging Markets: Global Index	<u>-1.61</u>	<u>4.72</u>	<u>1.46</u>	<u>3.19</u>	<u>1.76</u>	2.68	<u>-6.83</u>	<u>12.50</u>	<u>7.33</u>	<u>-3.47</u>	<u>-2.41</u>	<u>3.67</u>	8.62	<u>1.46</u>	Sep-18
Excess Return	-12.64	-15.14	-11.88	3.10	5.86	8.93	7.79	7.86	15.39	17.95	0.44	10.89	14.70	-11.88	
MSCI Emerging Markets	-4.25	5.90	-2.02	5.97	2.33	3.37	-14.58	37.28	11.19	-14.92	-2.19	-2.60	18.22	-2.02	Sep-18

Non-Marketable Securities Overview As of September 30, 2019

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (R\	/) Total Value (+ D	`	funded nitment	Takedown (takedowns / commit)	IRR
Real Estate	Metropolitan Real Estate Partners V	2007	\$2,000,000	\$1,885,000	\$2,066,019	\$163,37	4 \$2,229,	394 \$	115,000	94.25%	3.18
			Time an	d Dollar We	ighted Retu	rns					
Metropol	litan Real Estate Partners V		Q3-19	YTD	1 Yr	2 Yrs	3 Yrs	5 Yrs	7 Yrs	10 Yrs	
Time We	eighted		-3.99%	-11.50%	-12.44%	-9.81%	-8.60%	-1.04%	3.49%	4.12%	
Money V	Veighted		-3.99%	-11.35%	-12.17%	-9.45%	-7.56%	8.54%	12.91%	10.75%	
NCREIF	Property Index		1.41%	4.79%	6.23%	6.70%	6.76%	8.57%	9.29%	9.77%	
Metropoli	itan Real Estate Partners V			2018	2017	2016	2015	2014	2013	Inception 11/30/07	
Time We	ighted			-7.70%	-7.81%	4.86%	9.75%	20.70%	14.26%	-5.75%	
Money W	/eighted			-7.64%	-7.45%	3.86%	11.04%	19.67%	13.59%	3.18%	
NCREIF	Property Index			6.71%	6.98%	7.97%	13.33%	11.81%	10.99%	6.40%	

Time-Weighted Return - The current reporting system utilizes the Modified Dietz methodology for calculating time-weighted returns. This methodology accounts for inter-period cash flows by comparing the net gain in value with the average market value over the time interval. Average capital allows for the timing of each external flow.

Non-Marketable Securities Overview As of September 30, 2019

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulati Distributio		Total Value (RV + Dist)		Takedown (takedowns / commit)	IRR
Real Estate	Morrison Street Fund V, LP	2014	\$6,080,000	\$5,960,493	\$6,110,6	\$2,268,66	1 \$8,379,331	\$119,507	98.03%	11.87
			Time ar	nd Dollar We	ighted Ret	urns				
Morrison	Street Fund V, LP			Q3-19	YTD	1 Yr	2 Yrs	3 Yrs 4 Yrs	5 Yrs	
Time We	ghted			3.70%	5.59%	10.48%	9.68% 11	.99% 11.65%	11.54%	
Money W	eighted			3.70%	4.78%	10.79%	9.90% 12	.79% 12.19%	12.51%	
NCREIF	Property Index			1.41%	4.79%	6.23%	6.70% 6	.76% 7.37%	8.57%	
Morrison	Street Fund V, LP				2018	2017	2016	2015	Inception 6/30/14	
Time We	ghted				10.12%	18.03%	11.10%	11.89%	10.75%	
Money W	•				9.97%	17.74%	11.31%	13.31%	11.87%	

6.71%

6.98%

7.97%

13.33%

8.68%

Time-Weighted Return - The current reporting system utilizes the Modified Dietz methodology for calculating time-weighted returns. This methodology accounts for inter-period cash flows by comparing the net gain in value with the average market value over the time interval. Average capital allows for the timing of each external flow.

NCREIF Property Index

Non-Marketable Securities Overview As of September 30, 2019

Account T	ype Accoun	t	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment	Takedown (takedowns / commit)	IRR
Real Estate		n Street Debt nities Fd LP	2017	\$5,000,000	\$4,416,364	\$1,126,824	\$4,086,347	\$5,213,171	\$583,636	88.33%	7.73
				Time a	nd Dollar We	ighted Return	S				
	Morrison Street Deb	t Opportunities	Fd LP			Q3-19	YTD	1 Yr	2 Yrs	3 Yrs	
	Time Weighted					1.51%	5.63%	8.23%	8.87%		
	Money Weighted					1.51%	5.65%	8.27%	8.91%		
	NCREIF - ODCE NE	T				1.08%	3.08%	4.65%	6.17%	6.34%	
	Morrison Street Debt	Opportunities F	-d LP			2018	2017	2016	2015	Inception 12/31/16	
	Time Weighted					9.94%	4.47%			7.28%	
	Money Weighted					9.92%	5.28%			7.73%	

7.36%

6.66%

7.79%

13.91%

6.22%

Time-Weighted Return - The current reporting system utilizes the Modified Dietz methodology for calculating time-weighted returns. This methodology accounts for inter-period cash flows by comparing the net gain in value with the average market value over the time interval. Average capital allows for the timing of each external flow.

NCREIF - ODCE NET

Non-Marketable Securities Overview As of September 30, 2019

Ac	count Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)		unded itment	Takedown (takedowns / commit)	IRR
Lor	ng Biased Hedge	Orbimed Royalty Opport	tunities 2011	\$5,000,000	\$5,000,000	\$3,881,049	\$2,313,986	\$6,195,035	j	\$0	100.00%	5.76
				Time an	d Dollar We	ighted Retu	rns					
	Orbimed	Royalty Opportunities		Q3-1	9 YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	
	Time Wei	ghted		-3.10%	% 3.95%	-1.91%	12.21%	-0.53%	1.78%	3.37%	5.07%	
	Money W	eighted		-3.10%	4.04%	-1.89%	14.66%	-1.05%	2.10%	4.13%	5.41%	
	HFRI Fun	d of Funds Composite In	ndex	-0.82%	6 5.29%	0.08%	1.56%	3.18%	2.47%	1.96%	3.19%	
	S&P 500			1.70%	% 20.55%	4.25%	10.87%	13.39%	13.90%	10.84%	13.26%	
	Orbimed I	Royalty Opportunities			2018	2017	2016	2015	2014	2013	Inception 9/1/11	
	Time Wei	ghted			22.03%	4.47%	-20.87%	9.95%	9.99%	6.17%	6.65%	
	Money W	eighted			25.50%	4.57%	-17.15%	9.99% 1	0.00%	6.90%	5.76%	
	HFRI Fun	d of Funds Composite In	ndex		-4.02%	7.77%	0.51%	-0.27%	3.36%	8.96%	2.76%	

-4.38%

21.83%

11.96%

1.38%

13.69%

32.39%

14.05%

Time-Weighted Return - The current reporting system utilizes the Modified Dietz methodology for calculating time-weighted returns. This methodology accounts for inter-period cash flows by comparing the net gain in value with the average market value over the time interval. Average capital allows for the timing of each external flow.

S&P 500

Non-Marketable Securities Overview As of September 30, 2019

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	otal Value (RV + Dist)	Unfunded Commitment	Takedown (takedowns / commit)	IRR
Long Biased Hedge	Orbimed Royalty Opport	tunities 2015	\$5,000,000	\$4,167,500	\$2,718,167	\$2,601,037	\$5,319,204	\$832,500	83.35%	14.32
			Time an	d Dollar Weig	hted Returns					
Orbimed Ro	yalty Opportunities II			Q3-19	YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	
Time Weigh	nted			3.86%	16.04%	21.32%	17.73%	14.63%	15.89%	
Money Weig	ghted			3.79%	16.75%	21.80%	17.56%	15.42%	14.84%	
HFRI Fund	of Funds Composite Inde	ex		-0.82%	5.29%	0.08%	1.56%	3.18%	2.47%	
S&P 500				1.70%	20.55%	4.25%	10.87%	13.39%	13.90%	
Orbimed Ro	yalty Opportunities II				2018	2017	2016	2015	Inception 4/1/15	
Time Weight	ted				15.59%	12.28%	0.60%		13.46%	
Money Weig	phted				15.15%	12.85%	-0.05%		14.32%	
HFRI Fund o	of Funds Composite Inde	x			-4.02%	7.77%	0.51%	-0.27%	1.41%	

-4.38%

21.83%

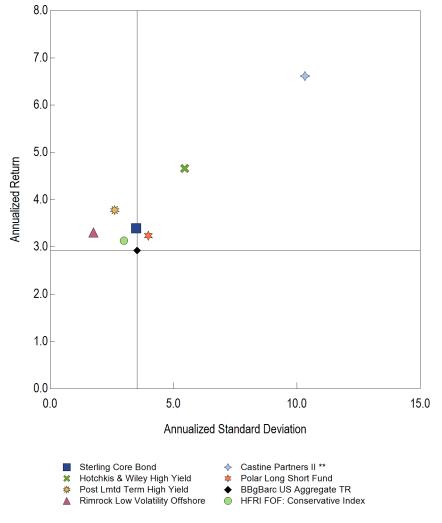
11.96%

1.38%

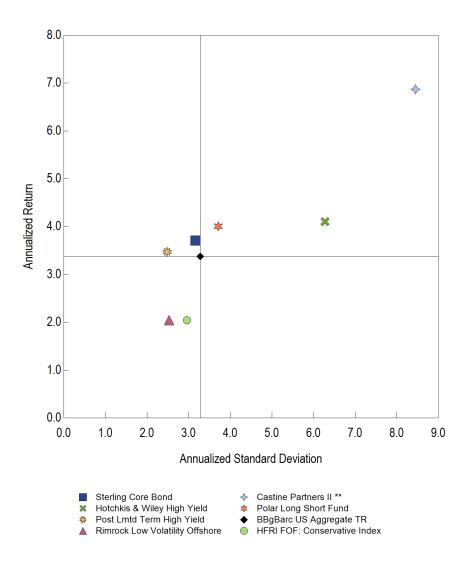
10.68%

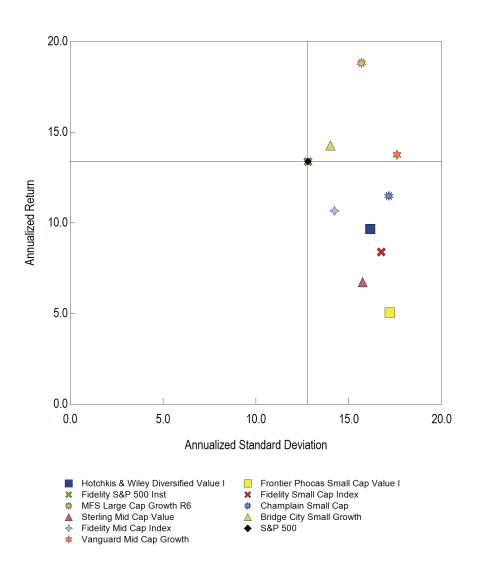
Time-Weighted Return - The current reporting system utilizes the Modified Dietz methodology for calculating time-weighted returns. This methodology accounts for inter-period cash flows by comparing the net gain in value with the average market value over the time interval. Average capital allows for the timing of each external flow.

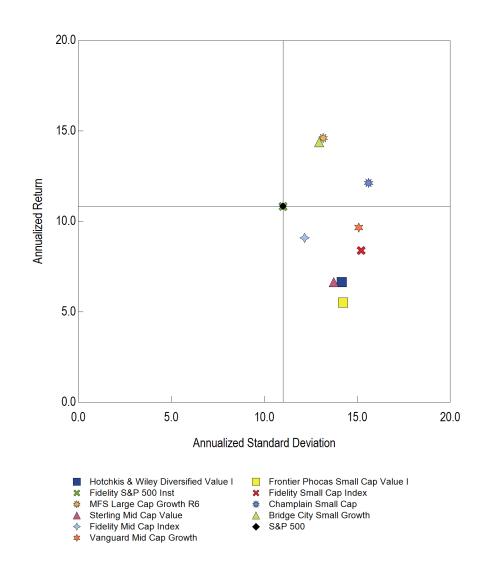
S&P 500

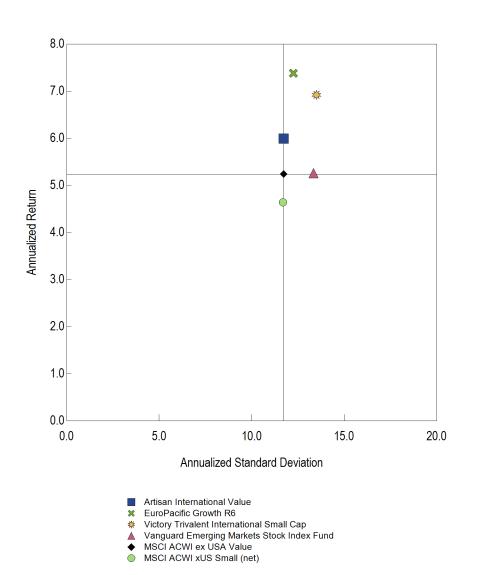


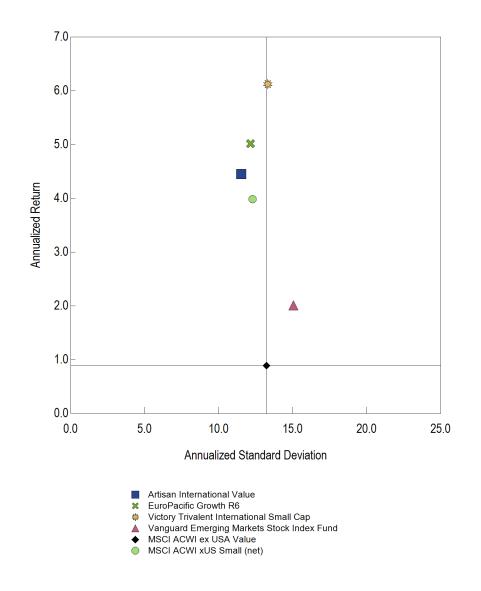
^{**} Performance prior to 7/1/18 is representative of Castine Partners I.

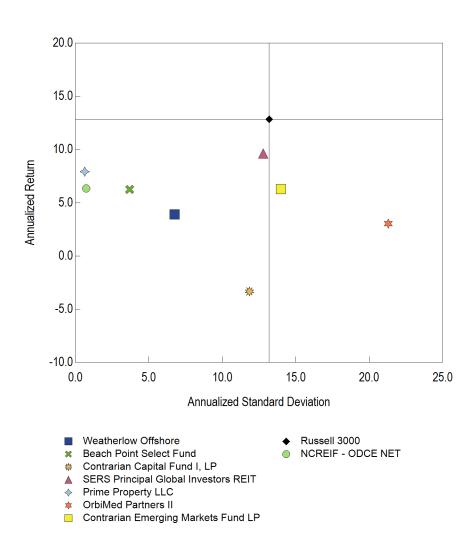


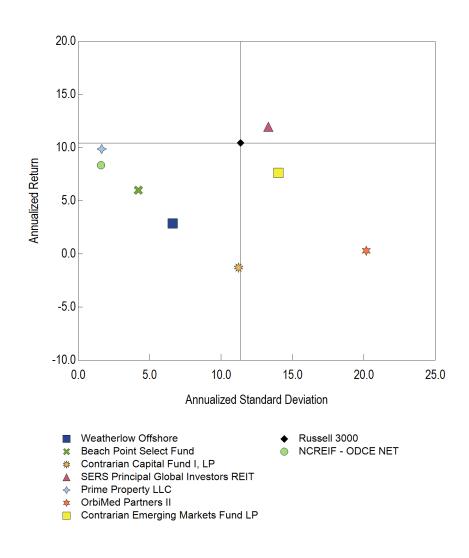








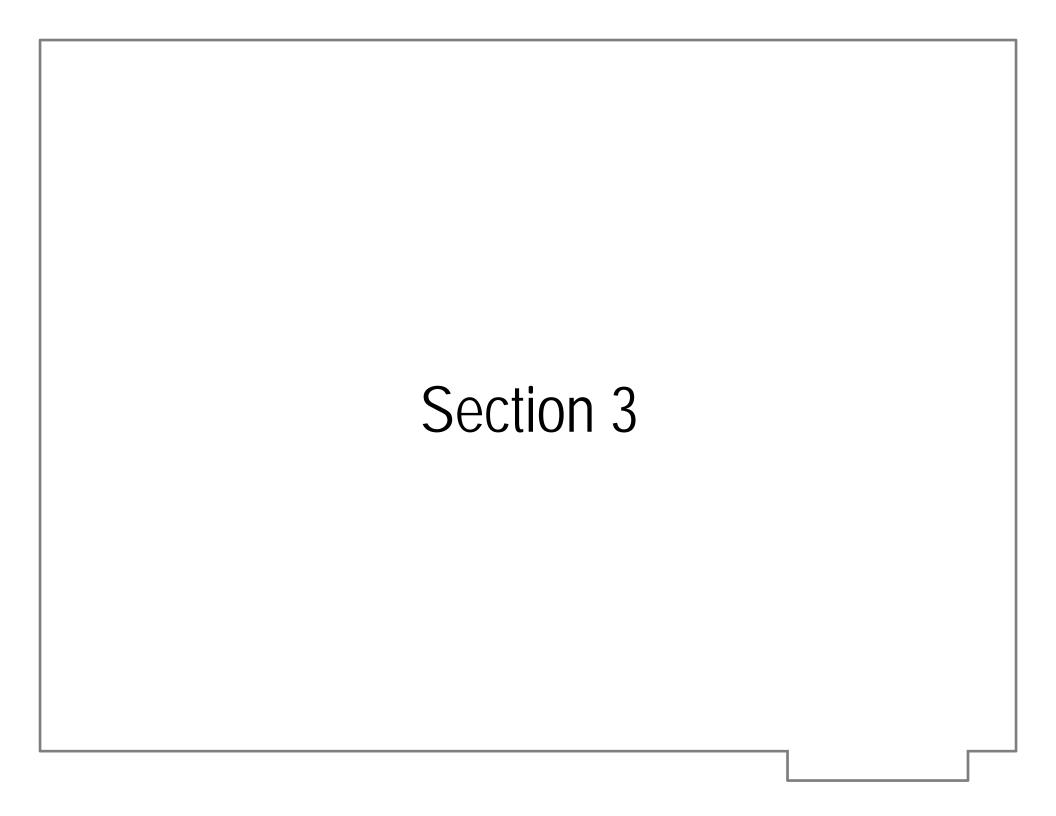




Investment Expense Analysis

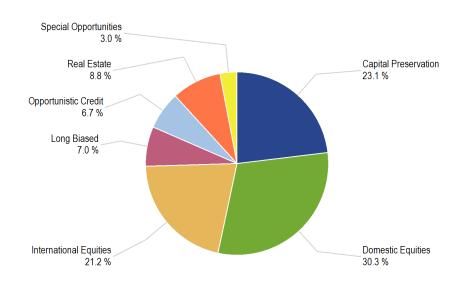
Artisan Int'l Value Mutual Fund APHKX MSCI ACWI ex USA Value Foreign Value MStar MF \$21,601,074 10.8% 1.01% 0.95% 0.07%	Name	Vehicle Type	Identifier	Benchmark	Universe	Market Value	% of Portfolio	Expense Ratio	Median Expense Ratio	Difference Fund v. Median
Champlain Small Cap Commingled Fund Russell 2000 Growth Small Growth MStar MF \$6,467,335 3.2% 1.00% 0.99% 0.01% EuroPacific Growth R6 Mutual Fund RERGX MSCI ACWI ex USA Foreign MStar MF \$21,490,207 10.8% 0.49% 0.90% -0.41% Fidelity Instl Govt Money Market Mutual Fund FIGXX 91 Day T-Bills Money Market - Taxable MStar MF \$128,450 0.1% 0.18% 0.21% -0.03% Fidelity Mid Cap Index Mutual Fund FSMDX Russell MidCap Mid Cap MStar MF \$4,310,263 2.2% 0.03% 0.89% -0.86% Fidelity Small Cap Index Mutual Fund FSMDX Russell 2000 Small Cap MStar MF \$28,710,261 14.4% 0.02% 0.73% -0.72% Fidelity Small Cap Index Mutual Fund FSNX Russell 2000 Small Cap MStar MF \$46,77,602 0.4% 0.03% 0.98% -0.96% Frontier Sm Cap Value I Mutual Fund FPSVX Russell 2000 Value Small Value MStar MF \$16,113,167 8.1% 0.00%	Artisan Int'l Value	Mutual Fund	APHKX	MSCI ACWI ex USA Value	Foreign Value MStar MF	\$21,601,074	10.8%	1.01%	0.95%	0.07%
EuroPacific Growth R6 Mutual Fund RERGX MSCI ACWI ex USA Foreign MStar MF \$21,490,207 10.8% 0.49% 0.90% -0.41%	Bridge City Small Growth	Separate Account		Russell 2000 Growth	Small Growth MStar MF	\$5,749,237	2.9%	0.35%	0.99%	-0.64%
Fidelity InstI Govt Money Market Mutual Fund FIGXX 91 Day T-Bills Money Market - Taxable MStar MF \$128,450 0.1% 0.18% 0.21% -0.03% Fidelity Mid Cap Index Mutual Fund FSMDX Russell MidCap Mid Cap MStar MF \$4,310,263 2.2% 0.03% 0.89% -0.86% Fidelity S&P 500 Mutual Fund FXAIX S&P 500 Large Cap MStar MF \$28,710,261 14.4% 0.02% 0.73% -0.72% Fidelity Small Cap Index Mutual Fund FXAIX S&P 500 Small Cap MStar MF \$28,710,261 14.4% 0.02% 0.73% -0.07% Frontier Sm Cap Value I Mutual Fund FSNX Russell 2000 Small Value MStar MF \$3,842,293 1.9% 0.95% 0.99% -0.06% Hotchkis & Wiley Div Value I Mutual Fund HWCIX Russell 1000 Value Large Value MStar MF \$16,113,167 8.1% 0.80% 0.72% 0.09% Hotchkis & Wiley Div Value I Mutual Fund HWHZX BBgBarc US High Yield TR High Yield Bond MStar MF \$13,377,263 6	Champlain Small Cap	Commingled Fund		Russell 2000 Growth	Small Growth MStar MF	\$6,467,335	3.2%	1.00%	0.99%	0.01%
Fidelity Mid Cap Index Mutual Fund FIGXX ST Day 1-Bills MF S126,490 0.1% 0.16% 0.21% -0.03%	EuroPacific Growth R6	Mutual Fund	RERGX	MSCI ACWI ex USA	Foreign MStar MF	\$21,490,207	10.8%	0.49%	0.90%	-0.41%
Fidelity S&P 500 Mutual Fund FXAIX S&P 500 Large Cap MStar MF \$28,710,261 14.4% 0.02% 0.73% -0.72% Fidelity Small Cap Index Mutual Fund FSSNX Russell 2000 Small Cap MStar MF \$877,602 0.4% 0.03% 0.98% -0.96% Frontier Sm Cap Value I Mutual Fund FPSVX Russell 2000 Value Small Value MStar MF \$3,842,293 1.9% 0.95% 0.99% -0.04% Hotchkis & Wiley Div Value I Mutual Fund HWCIX Russell 1000 Value Large Value MStar MF \$16,113,167 8.1% 0.80% 0.72% 0.09% Hotchkis & Wiley Div Value I Mutual Fund HWHZX BBgBarc US High Yield TR High Yield Bond MStar MF \$13,377,263 6.7% 0.60% 0.73% -0.13% MFS Growth Fund CI R6 Mutual Fund MFEKX Russell 1000 Growth Large Growth MStar MF \$17,060,763 8.5% 0.58% 0.79% -0.21% Sterling Core Bond Separate Account FTSE NAREIT All REIT Real Estate MStar MF \$12,609,210 6.3%	Fidelity Instl Govt Money Market	Mutual Fund	FIGXX	91 Day T-Bills	•	\$128,450	0.1%	0.18%	0.21%	-0.03%
Fidelity Small Cap Index Mutual Fund FSSNX Russell 2000 Small Cap MStar MF \$877,602 0.4% 0.03% 0.98% -0.96% Frontier Sm Cap Value I Mutual Fund FPSVX Russell 2000 Value Small Value MStar MF \$3,842,293 1.9% 0.95% 0.99% -0.04% Hotchkis & Wiley Div Value I Mutual Fund HWCIX Russell 1000 Value Large Value MStar MF \$16,113,167 8.1% 0.80% 0.72% 0.09% Hotchkis & Wiley High Yield Mutual Fund HWHZX BBgBarc US High Yield TR High Yield Bond MStar MF \$13,377,263 6.7% 0.60% 0.73% -0.13% MFS Growth Fund CI R6 Mutual Fund MFEKX Russell 1000 Growth Large Growth MStar MF \$17,060,763 8.5% 0.58% 0.79% -0.21% Principal Global Investors REIT Separate Account FTSE NAREIT All REIT Real Estate MStar MF \$12,609,210 6.3% 0.75% 0.91% -0.16% Sterling Mol Cap Value Separate Account Russell MidCap Value Mid-Cap Value MStar MF \$4,640,568 2.3% 0.75% 0.86% -0.11% Vanguard Emerging Markets Stock Index Fd Vanguard Mid Cap Growth Mutual Fund WMSCI Emerging Markets Mid-Cap Growth MStar MF \$4,318,790 2.2% 0.36% 0.99% -0.06% 0.99% -0.01% -0.16% -0.10% -0.16% -0.10% -0	Fidelity Mid Cap Index	Mutual Fund	FSMDX	Russell MidCap	Mid Cap MStar MF	\$4,310,263	2.2%	0.03%	0.89%	-0.86%
Frontier Sm Cap Value I Mutual Fund FPSVX Russell 2000 Value Small Value MStar MF \$3,842,293 1.9% 0.95% 0.99% -0.04% Hotchkis & Wiley Div Value I Mutual Fund HWCIX Russell 1000 Value Large Value MStar MF \$16,113,167 8.1% 0.80% 0.72% 0.09% Hotchkis & Wiley High Yield Mutual Fund HWHZX BBgBarc US High Yield TR High Yield Bond MStar MF \$13,377,263 6.7% 0.60% 0.73% -0.13% MFS Growth Fund CI R6 Mutual Fund MFEKX Russell 1000 Growth Large Growth MStar MF \$17,060,763 8.5% 0.58% 0.79% -0.21% Principal Global Investors REIT Separate Account FTSE NAREIT All REIT Real Estate MStar MF \$12,609,210 6.3% 0.75% 0.91% -0.16% Sterling Mid Cap Value Separate Account BBgBarc US Aggregate TR Intermediate Core Bond MStar MF \$25,318,563 12.7% 0.25% 0.45% -0.20% Sterling Mid Cap Value Separate Account Russell MidCap Value Mid-Cap Value MStar MF \$4,640,568	Fidelity S&P 500	Mutual Fund	FXAIX	S&P 500	Large Cap MStar MF	\$28,710,261	14.4%	0.02%	0.73%	-0.72%
Hotchkis & Wiley Div Value I Mutual Fund HWCIX Russell 1000 Value Large Value MStar MF \$16,113,167 8.1% 0.80% 0.72% 0.09% Hotchkis & Wiley High Yield Mutual Fund HWHZX BBgBarc US High Yield TR High Yield Bond MStar MF \$13,377,263 6.7% 0.60% 0.73% -0.13% MFS Growth Fund CI R6 Mutual Fund MFEKX Russell 1000 Growth Large Growth MStar MF \$17,060,763 8.5% 0.58% 0.79% -0.21% Principal Global Investors REIT Separate Account FTSE NAREIT All REIT Real Estate MStar MF \$12,609,210 6.3% 0.75% 0.91% -0.16% Sterling Core Bond Separate Account BBgBarc US Aggregate TR Intermediate Core Bond MStar MF \$25,318,563 12.7% 0.25% 0.45% -0.20% Sterling Mid Cap Value Separate Account Russell MidCap Value Mid-Cap Value MStar MF \$4,640,568 2.3% 0.75% 0.86% -0.11% Vanguard Emerging Markets Stock Index Fd Wutual Fund VEMAX MSCI Emerging Markets Stock Index Fd Wutual Fund VMGRX Russell MidCap Growth Mid-Cap Growth MStar MF \$4,318,790 2.2% 0.36% 0.92% -0.56% Victory Trivalent International Small Cap Mutual Fund MISIX MSCI ACWI xUS Small (net) Foreign Small/Mid Growth MStar MF \$11,843,656 5.9% 0.99% 1.08% -0.09%	Fidelity Small Cap Index	Mutual Fund	FSSNX	Russell 2000	Small Cap MStar MF	\$877,602	0.4%	0.03%	0.98%	-0.96%
Hotchkis & Wiley High Yield Mutual Fund HWHZX BBgBarc US High Yield TR High Yield Bond MStar MF \$13,377,263 6.7% 0.60% 0.73% -0.13% MFS Growth Fund CI R6 Mutual Fund MFEKX Russell 1000 Growth Large Growth MStar MF \$17,060,763 8.5% 0.58% 0.79% -0.21% Principal Global Investors REIT Separate Account Separate Account BBgBarc US Aggregate TR Intermediate Core Bond MStar MF \$25,318,563 12.7% 0.25% 0.45% -0.20% Sterling Mid Cap Value Separate Account Russell MidCap Value Mid-Cap Value MStar MF \$4,640,568 2.3% 0.75% 0.86% -0.11% Vanguard Emerging Markets Stock Index Fd Vanguard Mid Cap Growth Mutual Fund VMGRX Russell MidCap Growth Mid-Cap Growth MStar MF \$4,318,790 2.2% 0.36% 0.92% -0.56% Victory Trivalent International Small Cap Mutual Fund MISIX MSCI ACWI xUS Small (net) Foreign Small/Mid Growth MStar MF \$11,843,656 5.9% 0.99% 1.08% -0.10%	Frontier Sm Cap Value I	Mutual Fund	FPSVX	Russell 2000 Value	Small Value MStar MF	\$3,842,293	1.9%	0.95%	0.99%	-0.04%
MFS Growth Fund CI R6 Mutual Fund MFEKX Russell 1000 Growth Large Growth MStar MF \$17,060,763 8.5% 0.58% 0.79% -0.21% Principal Global Investors REIT Separate Account FTSE NAREIT All REIT Real Estate MStar MF \$12,609,210 6.3% 0.75% 0.91% -0.16% Sterling Core Bond Separate Account BBgBarc US Aggregate TR MF Sterling Mid Cap Value Separate Account Russell MidCap Value Mid-Cap Value MStar MF \$4,640,568 2.3% 0.75% 0.25% 0.45% -0.20% MF Vanguard Emerging Markets Stock Index Fd Vanguard Mid Cap Growth Mutual Fund VMGRX Russell MidCap Growth Mid-Cap Growth MStar MF Victory Trivalent International Small Cap Mutual Fund MISIX MSCI ACWI xUS Small (net) MF MF Stock Index MF Foreign Small/Mid Growth MStar MF Stock Index MStar MStar MStar MF Stock Index MStar MStar MStar MStar MStar MStar MF Stock Index MStar MS	Hotchkis & Wiley Div Value I	Mutual Fund	HWCIX	Russell 1000 Value	Large Value MStar MF	\$16,113,167	8.1%	0.80%	0.72%	0.09%
Principal Global Investors REIT Separate Account Sterling Core Bond Separate Account BBgBarc US Aggregate TR Intermediate Core Bond MStar MF Sterling Mid Cap Value Separate Account Russell MidCap Value Mid-Cap Value MStar MF Vanguard Emerging Markets Stock Index Fd Vanguard Mid Cap Growth Mutual Fund VMGRX Russell MidCap Growth Mid-Cap Growth MStar MF Victory Trivalent International Small Cap Mutual Fund MISIX MSCI ACWI xUS Small (net) MSCI Emerging Small/Mid Growth MStar MF Stock Index MSCI Emerging Markets Mutual Fund MISIX MSCI ACWI xUS Small (net) MSCI ACWI xUS Small (net) Real Estate MStar MF State MStar MF Mid-Cap Bond MStar MF State MStar MF State MStar MF State MStar MF Mid-Cap Growth MStar MF Mid-Cap Growth MStar MF State MStar MF Mid-Cap Growth	Hotchkis & Wiley High Yield	Mutual Fund	HWHZX	BBgBarc US High Yield TR	High Yield Bond MStar MF	\$13,377,263	6.7%	0.60%	0.73%	-0.13%
Sterling Core Bond Separate Account BBgBarc US Aggregate TR MF Sterling Mid Cap Value Separate Account Russell MidCap Value Mid-Cap Value MStar MF Vanguard Emerging Markets Stock Index Fd Vanguard Mid Cap Growth Mutual Fund VMGRX Russell MidCap Growth MidCap Growth Mid-Cap Growth MStar MF Stock Index Fd Witcory Trivalent International Small Cap Mutual Fund MISIX MSCI ACWI xUS Small (net) Mid-Cap Bond MStar Mid-Cap Bond MStar Mid-Cap Bond MStar Stock Index Fd Star, 12.7%	MFS Growth Fund CI R6	Mutual Fund	MFEKX	Russell 1000 Growth	Large Growth MStar MF	\$17,060,763	8.5%	0.58%	0.79%	-0.21%
Sterling Mid Cap Value Separate Account Russell MidCap Value Mid-Cap Value MStar MF Vanguard Emerging Markets Stock Index Fd Vanguard Mid Cap Growth Mutual Fund VMGRX Russell MidCap Growth Mid-Cap Growth MStar MF Victory Trivalent International Small Cap MF S25,318,563 12.7% 0.25% 0.45% -0.20% Mid-Cap Value MStar MF \$4,640,568 2.3% 0.75% 0.86% -0.11% Piversified Emerging Mkts MStar MF \$1,151,533 0.6% 0.14% 1.15% -1.01% Mid-Cap Growth MStar MF Victory Trivalent International Small Cap Mutual Fund MISIX MSCI ACWI xUS Small (net) MF Mid-Cap Growth MStar MF \$11,843,656 5.9% 0.99% 1.08% -0.09%	Principal Global Investors REIT	Separate Account		FTSE NAREIT All REIT	Real Estate MStar MF	\$12,609,210	6.3%	0.75%	0.91%	-0.16%
Vanguard Emerging Markets Stock Index Fd Vanguard Mid Cap Growth Mutual Fund VEMAX MSCI Emerging Markets Mer Diversified Emerging Mkts MStar MF \$1,151,533 0.6% 0.14% 1.15% -1.01% Vanguard Mid Cap Growth Mutual Fund VMGRX Russell MidCap Growth Mid-Cap Growth MStar MF \$4,318,790 2.2% 0.36% 0.92% -0.56% Victory Trivalent International Small Cap Mutual Fund MISIX MSCI ACWI xUS Small (net) Foreign Small/Mid Growth MStar MF \$11,843,656 5.9% 0.99% 1.08% -0.09%	Sterling Core Bond	Separate Account		BBgBarc US Aggregate TR		\$25,318,563	12.7%	0.25%	0.45%	-0.20%
Stock Index Fd Widdlar Fulld VEMAX WISCI Effergling Warkets MF \$1,191,533 0.0% 0.14% 1.15% -1.01% MF Vanguard Mid Cap Growth MUtual Fund VMGRX Russell MidCap Growth Mid-Cap Growth MStar MF \$4,318,790 2.2% 0.36% 0.92% -0.56% Victory Trivalent International Small Cap MISIX MSCI ACWI xUS Small (net) Foreign Small/Mid Growth MStar MF \$11,843,656 5.9% 0.99% 1.08% -0.09%	Sterling Mid Cap Value	Separate Account		Russell MidCap Value	Mid-Cap Value MStar MF	\$4,640,568	2.3%	0.75%	0.86%	-0.11%
Victory Trivalent International Small Cap Mutual Fund MISIX MSCI ACWI xUS Small (net) Foreign Small/Mid Growth MStar \$11,843,656 5.9% 0.99% 1.08% -0.09% MF	0 0	Mutual Fund	VEMAX	MSCI Emerging Markets		\$1,151,533	0.6%	0.14%	1.15%	-1.01%
Small Cap Mistx Mi	Vanguard Mid Cap Growth	Mutual Fund	VMGRX	Russell MidCap Growth	Mid-Cap Growth MStar MF	\$4,318,790	2.2%	0.36%	0.92%	-0.56%
Total \$199,610,234 100.0% 0.54%	•	Mutual Fund	MISIX	MSCI ACWI xUS Small (net)		\$11,843,656	5.9%	0.99%	1.08%	-0.09%
	Total					\$199,610,234	100.0%	0.54%		

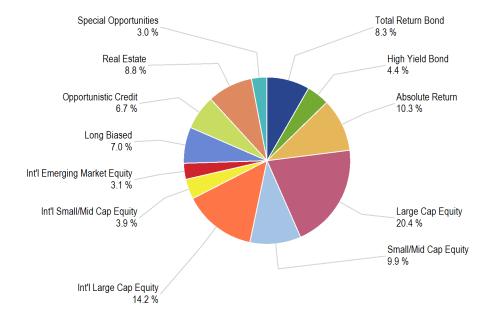
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Current Allocation

Current Implementation Allocation

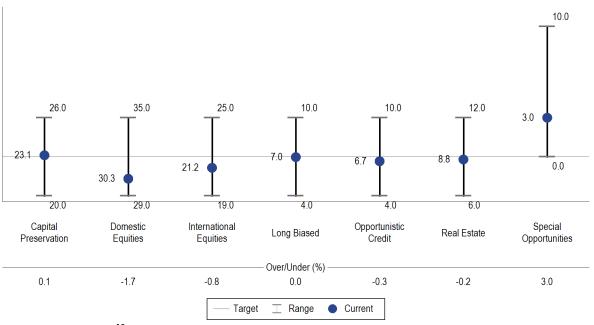




Spokane Employees' Retirement System

As of September 30, 2019

				Asset A	Illocation vs. Ta	rget			
Policy	Current		Inv Pol Stmt	%	Inv Pol Stmt Range	Current	%	Difference	%
		Capital Preservation	\$69,873,815	23.0%	20.0% - 26.0%	\$70,220,951	23.1%	\$347,136	0.1%
		Domestic Equities	\$97,215,743	32.0%	29.0% - 35.0%	\$92,090,278	30.3%	-\$5,125,465	-1.7%
23.0%	23.1%	International Equities	\$66,835,824	22.0%	19.0% - 25.0%	\$64,260,956	21.2%	-\$2,574,867	-0.8%
		Long Biased	\$21,265,944	7.0%	4.0% - 10.0%	\$21,178,764	7.0%	-\$87,180	0.0%
		Opportunistic Credit	\$21,265,944	7.0%	4.0% - 10.0%	\$20,220,169	6.7%	-\$1,045,775	-0.3%
		Real Estate	\$27,341,928	9.0%	6.0% - 12.0%	\$26,706,408	8.8%	-\$635,520	-0.2%
		Special Opportunities	\$0	0.0%	0.0% - 10.0%	\$9,121,671	3.0%	\$9,121,671	3.0%
		Total	\$303,799,198	100.0%		\$303,799,198	100.0%		
32.0%	30.3%				Actual vs. Targe	ı			
								10.0	0



22.0%



21.2%

7.0%

6.7%

8.8%

3.0%

Current	
8.3%	
4.4%	
10.3%	
20.4%	
9.9%	
14.2%	
3.9%	
3.1%	
7.0%	
6.7%	
8.8%	
3.0%	

•	mpiementatioi	•
	10.0%	
	5.0%	
	8.0%	
	21.0%	
	11.0%	
	15.0%	
	4.0%	
	3.0%	
	7.0%	
	7.0%	
	9.0%	
	0.0%	

Implementation

Asset Allocation on September 30, 2019 Actual Actual Target Cash \$128,450 0.0% 0.0% Total Return Bond \$25,318,563 8.3% 10.0% High Yield Bond \$13,377,263 4.4% 5.0% Absolute Return \$31,396,675 8.0% 10.3% Large Cap Equity \$61,884,190 20.4% 21.0% Small/Mid Cap Equity \$30,206,088 9.9% 11.0% Int'l Large Cap Equity 14.2% 15.0% \$43,091,281 Int'l Small/Mid Cap Equity \$11,843,656 3.9% 4.0% 3.0% Int'l Emerging Market Equity \$9,326,019 3.1% Long Biased \$21,178,764 7.0% 7.0% Opportunistic Credit \$20,220,169 6.7% 7.0% Real Estate 9.0% \$26,706,408 8.8% **Special Opportunities** 3.0% 0.0% \$9,121,671 Total \$303,799,198 100.0% 100.0%

Spokane Employees' Retirement System As of September 30, 2019

Asset Allocation vs. Target

	Target Allocation	%	Target Allocation Range	Current	%	Difference	%	Within Range
Capital Preservation	\$69,873,815	23.0%	20.0% - 26.0%	\$70,220,951	23.1%	\$347,136	0.1%	Yes
Cash	\$0	0.0%	0.0% - 2.0%	\$128,450	0.0%	\$128,450	0.0%	Yes
Fidelity Instl Govt Money Market				\$128,450	0.0%			
Total Return Bond	\$30,379,920	10.0%	8.0% - 12.0%	\$25,318,563	8.3%	-\$5,061,357	-1.7%	Yes
Sterling Core Bond				\$25,318,563	8.3%			
High Yield Bond	\$15,189,960	5.0%	3.0% - 7.0%	\$13,377,263	4.4%	-\$1,812,697	-0.6%	Yes
Hotchkis & Wiley High Yield				\$13,377,263	4.4%			
Absolute Return	\$24,303,936	8.0%	6.0% - 10.0%	\$31,396,675	10.3%	\$7,092,739	2.3%	No
Polar Long/Short Fund				\$7,111,512	2.3%			
Post Lmtd Term High Yield				\$6,432,954	2.1%			
Rimrock Low Volatility Offshore				\$10,018,765	3.3%			
Castine Partners II				\$7,833,444	2.6%			
Domestic Equities	\$97,215,743	32.0%	29.0% - 35.0%	\$92,090,278	30.3%	-\$5,125,465	-1.7%	Yes
Large Cap Equity	\$63,797,832	21.0%	19.0% - 23.0%	\$61,884,190	20.4%	-\$1,913,641	-0.6%	Yes
Hotchkis & Wiley Div Value I				\$16,113,167	5.3%			
Fidelity S&P 500				\$28,710,261	9.5%			
MFS Growth Fund CI R6				\$17,060,763	5.6%			
Small/Mid Cap Equity	\$33,417,912	11.0%	9.0% - 13.0%	\$30,206,088	9.9%	-\$3,211,824	-1.1%	Yes
Sterling Mid Cap Value				\$4,640,568	1.5%			

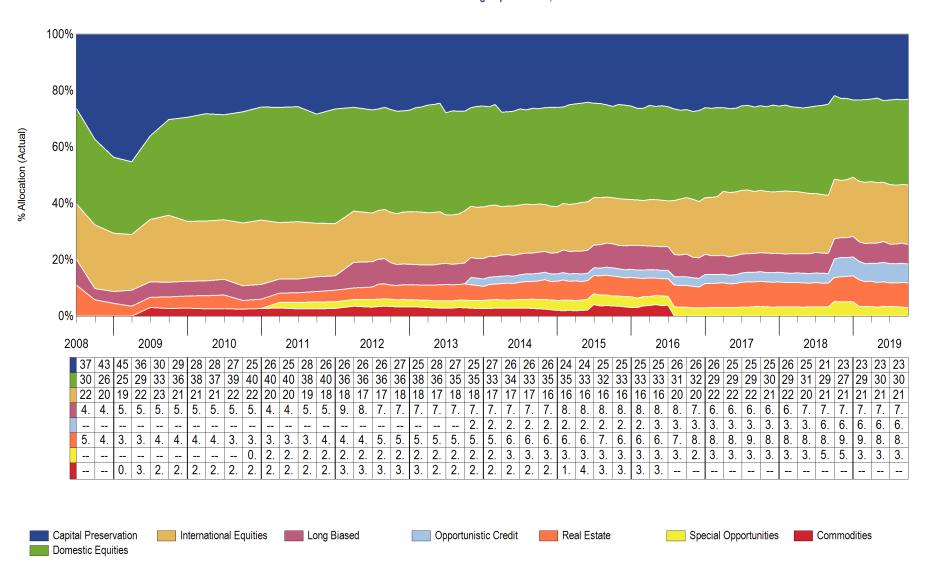
Spokane Employees' Retirement System As of September 30, 2019

	Target Allocation	%	Target Allocation Range	Current	%	Difference	%	Within Range
Fidelity Mid Cap Index				\$4,310,263	1.4%			
Vanguard Mid Cap Growth				\$4,318,790	1.4%			
Frontier Sm Cap Value I				\$3,842,293	1.3%			
Fidelity Small Cap Index				\$877,602	0.3%			
Bridge City Small Growth				\$5,749,237	1.9%			
Champlain Small Cap				\$6,467,335	2.1%			
International Equities	\$66,835,824	22.0%	19.0% - 25.0%	\$64,260,956	21.2%	-\$2,574,867	-0.8%	Yes
Int'l Large Cap Equity	\$45,569,880	15.0%	13.0% - 17.0%	\$43,091,281	14.2%	-\$2,478,599	-0.8%	Yes
EuroPacific Growth R6				\$21,490,207	7.1%			
Artisan Int'l Value				\$21,601,074	7.1%			
Int'l Small/Mid Cap Equity	\$12,151,968	4.0%	2.0% - 6.0%	\$11,843,656	3.9%	-\$308,312	-0.1%	Yes
Victory Trivalent International Small Cap				\$11,843,656	3.9%			
Int'l Emerging Market Equity	\$9,113,976	3.0%	1.0% - 5.0%	\$9,326,019	3.1%	\$212,043	0.1%	Yes
Vanguard Emerging Markets Stock Index Fd				\$1,151,533	0.4%			
ABS Emerging Markets Strategic				\$8,174,487	2.7%			
Long Biased	\$21,265,944	7.0%	4.0% - 10.0%	\$21,178,764	7.0%	-\$87,180	0.0%	Yes
Long Biased	\$21,265,944	7.0%	4.0% - 10.0%	\$21,178,764	7.0%	-\$87,180	0.0%	Yes
Weatherlow Offshore				\$16,263,741	5.4%			
OrbiMed Royalty Opps II				\$2,601,037	0.9%			
OrbiMed Royalty Opportunities				\$2,313,986	0.8%			

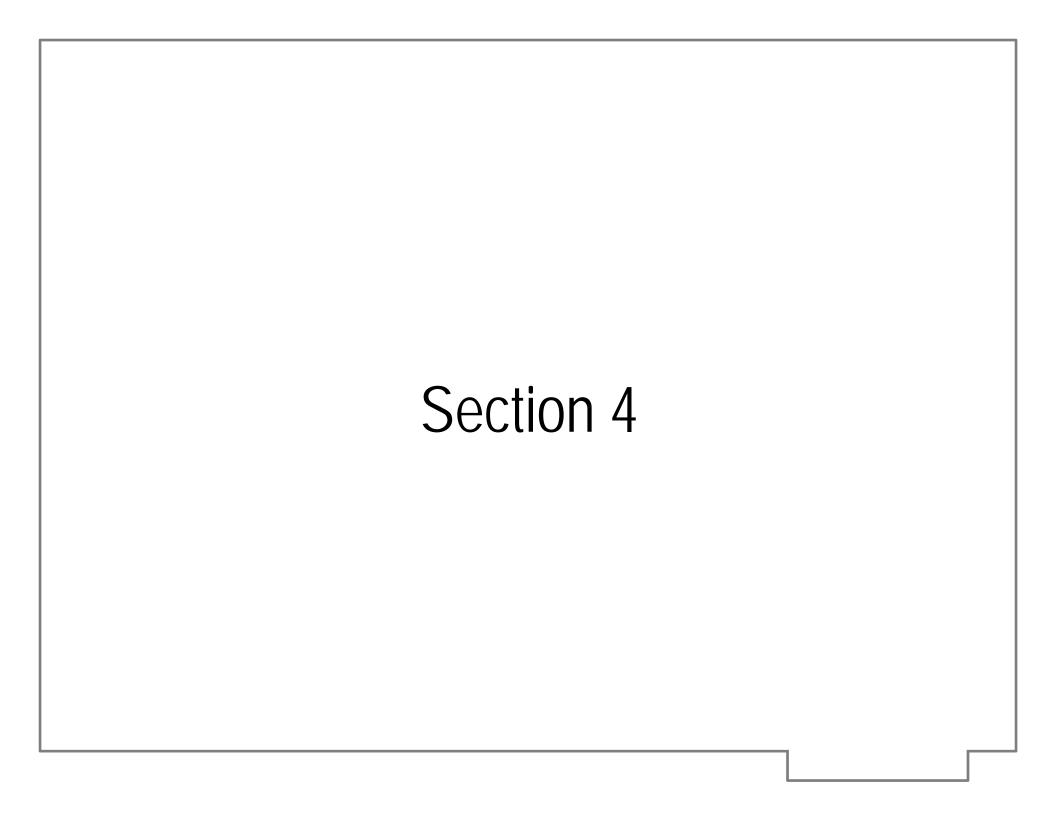
Spokane Employees' Retirement System As of September 30, 2019

	Target Allocation	%	Target Allocation Range	Current	%	Difference	%	Within Range
Opportunistic Credit	\$21,265,944	7.0%	4.0% - 10.0%	\$20,220,169	6.7%	-\$1,045,775	-0.3%	Yes
Opportunistic Credit	\$21,265,944	7.0%	4.0% - 10.0%	\$20,220,169	6.7%	-\$1,045,775	-0.3%	Yes
Beach Point Select Fund LP				\$11,167,193	3.7%			
Contrarian Capital Fund I LP				\$9,052,976	3.0%			
Real Estate	\$27,341,928	9.0%	6.0% - 12.0%	\$26,706,408	8.8%	-\$635,520	-0.2%	Yes
Real Estate	\$27,341,928	9.0%	6.0% - 12.0%	\$26,706,408	8.8%	-\$635,520	-0.2%	Yes
Principal Global Investors REIT				\$12,609,210	4.2%			
Metropolitan Realty V				\$163,374	0.1%			
Morrison Street Fund V				\$2,313,907	0.8%			
Morrison Street Debt Opportunities Fund LP				\$4,183,821	1.4%			
Morgan Stanley Prime Property Fund				\$7,436,096	2.4%			
Special Opportunities	\$0	0.0%	0.0% - 10.0%	\$9,121,671	3.0%	\$9,121,671	3.0%	Yes
Special Opportunities	\$0	0.0%	0.0% - 10.0%	\$9,121,671	3.0%	\$9,121,671	3.0%	Yes
Orbimed Partners II				\$3,748,946	1.2%			
Contrarian Emerging Markets				\$5,372,725	1.8%			
Total	\$303,799,198	100.0%		\$303,799,198	100.0%			

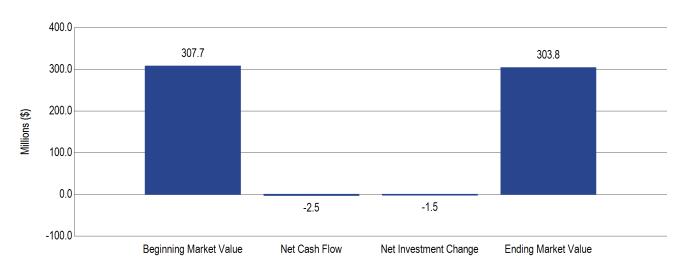
Asset Allocation History
11 Years 3 Months Ending September 30, 2019



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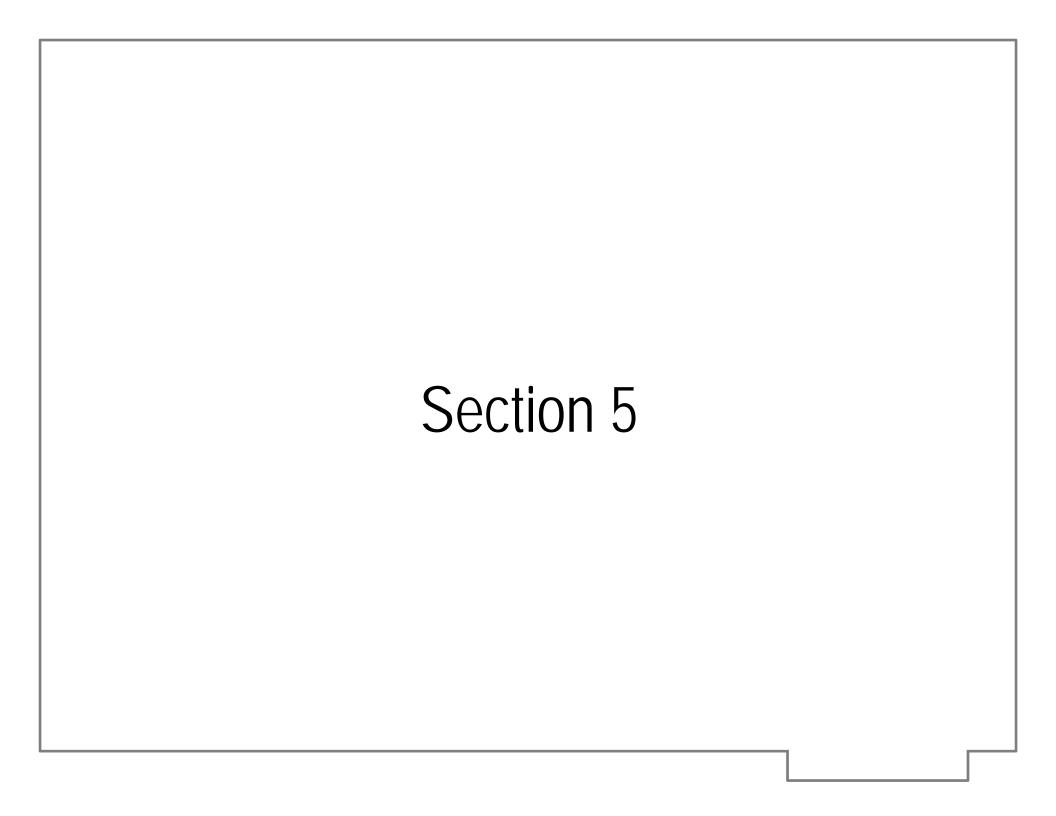
Change in Market Value From July 01, 2019 To September 30, 2019



Cash Flow Summary

	Beginning Market Value (\$)	Contributions (\$)	Withdrawals (\$)	Net Cash Flow (\$)	Net Investment Change (\$)	Ending Market Value (\$)
ABS Emerging Markets Strategic	8,425,861.99	0.00	0.00	0.00	-251,375.22	8,174,486.77
Artisan Int'l Value	21,737,007.71	0.00	0.00	0.00	-135,933.54	21,601,074.17
Beach Point Select Fund LP	11,033,823.00	0.00	0.00	0.00	133,370.00	11,167,193.00
Bridge City Small Growth	5,685,050.58	0.00	0.00	0.00	64,186.63	5,749,237.21
Castine Partners II	7,962,311.43	0.00	0.00	0.00	-128,867.87	7,833,443.56
Champlain Small Cap	6,550,482.89	0.00	0.00	0.00	-83,147.86	6,467,335.03
Contrarian Capital Fund I LP	9,955,158.19	0.00	0.00	0.00	-902,182.48	9,052,975.71
Contrarian Emerging Markets	6,266,361.22	0.00	0.00	0.00	-893,636.02	5,372,725.20
EuroPacific Growth R6	21,837,489.86	0.00	0.00	0.00	-347,283.06	21,490,206.80
Fidelity Instl Govt Money Market	1,067,112.41	6,871,802.57	-7,817,783.66	-945,981.09	7,319.07	128,450.39
Fidelity Mid Cap Index	4,291,215.85	0.00	0.00	0.00	19,046.68	4,310,262.53
Fidelity S&P 500	28,231,756.55	0.00	0.00	0.00	478,504.30	28,710,260.85
Fidelity Small Cap Index	898,614.38	0.00	0.00	0.00	-21,012.38	877,602.00

	Beginning Market Value (\$)	Contributions (\$)	Withdrawals (\$)	Net Cash Flow (\$)	Net Investment Change (\$)	Ending Market Value (\$)
Frontier Sm Cap Value I	3,871,182.59	0.00	0.00	0.00	-28,889.42	3,842,293.17
Hotchkis & Wiley Div Value I	16,242,071.96	0.00	0.00	0.00	-128,905.33	16,113,166.63
Hotchkis & Wiley High Yield	13,461,407.24	0.00	0.00	0.00	-84,144.29	13,377,262.95
Jackson Square Large-Cap Growth Equity	17,324,882.84	0.00	-17,544,370.38	-17,544,370.38	219,487.54	
Metropolitan Realty V	182,173.39	0.00	0.00	0.00	-18,799.19	163,374.20
MFS Growth Fund CI R6		17,544,370.38	0.00	17,544,370.38	-483,607.65	17,060,762.73
Morgan Stanley Prime Property Fund	7,404,576.18	0.00	-73,022.21	-73,022.21	104,542.17	7,436,096.14
Morrison Street Debt Opportunities Fund LP	4,213,647.00	0.00	-90,973.89	-90,973.89	61,147.89	4,183,821.00
Morrison Street Fund V	2,231,413.00	0.00	0.00	0.00	82,494.00	2,313,907.00
Orbimed Partners II	4,114,265.00	0.00	0.00	0.00	-365,319.00	3,748,946.00
OrbiMed Royalty Opportunities	2,353,768.66	0.00	-12,465.25	-12,465.25	-27,317.41	2,313,986.00
OrbiMed Royalty Opps II	2,657,998.35	0.00	-146,103.90	-146,103.90	89,142.55	2,601,037.00
Polar Long/Short Fund	7,245,250.88	0.00	0.00	0.00	-133,738.68	7,111,512.20
Post Lmtd Term High Yield	6,335,511.37	0.00	0.00	0.00	97,442.72	6,432,954.09
Principal Global Investors REIT	11,693,186.82	0.00	0.00	0.00	916,022.83	12,609,209.65
Rimrock Low Volatility Offshore	10,098,509.36	0.00	0.00	0.00	-79,744.48	10,018,764.88
Sterling Core Bond	25,826,313.98	0.00	-1,100,000.00	-1,100,000.00	592,249.28	25,318,563.26
Sterling Mid Cap Value	4,707,076.04	0.00	-100,000.00	-100,000.00	33,492.32	4,640,568.36
Vanguard Emerging Markets Stock Index Fd	1,194,543.21	0.00	0.00	0.00	-43,010.60	1,151,532.61
Vanguard Mid Cap Growth	4,451,267.81	0.00	0.00	0.00	-132,478.21	4,318,789.60
Victory Trivalent International Small Cap	11,798,725.47	0.00	0.00	0.00	44,930.41	11,843,655.88
Weatherlow Offshore	16,385,225.44	0.00	0.00	0.00	-121,484.28	16,263,741.16
Total	307,735,242.65	24,416,172.95	-26,884,719.29	-2,468,546.34	-1,467,498.58	303,799,197.73



Statistic Definitions

Annualized Standard Deviation	A statistic used to measure the portfolio's volatility. A statistical measure of the dispersion of returns for a given security or market index. Volatility can either be measured by using the standard deviation or variance between returns from that same security or market index. Commonly, the higher the volatility, the riskier the security.
Downside / Upside Deviation	Standard deviation makes no distinction between the "good" or upside deviations, and the "bad" or downside deviations. Both upside and downside deviations have an equal influence on the calculation of standard deviation. Downside deviation seeks to remedy this by ignoring all of the "good" observations and by instead focusing on the "bad" returns. Conversely, Upside deviation ignores all of the "bad" observations and instead focuses on the "good" returns.
Alpha	Measures the relationship between the portfolio performance and the performance of another or benchmark index and equals the excess return while the other portfolio or benchmark index is zero.
Beta	Measures the systematic market risk and is equal to the change in portfolio performance in relation to the change in portfolio performance/index performance.
R-Squared	The "goodness of fit" to a benchmark. The percentage of a manager's return that is "explained" by the benchmark.
Tracking Error	I racking Error, also known as residual risk, is a measure of the degree to which a portfolio tracks its benchmark. It is also a measure of consistency of excess returns. Tracking Error is computed as the annualized standard deviation of the difference between a portfolio's return and that of its benchmark.
Information Ratio	The Information Ratio is a measure of the risk-adjusted return of a financial security (or asset or portfolio). It is defined as expected active return divided by tracking error, where active return is the excess return and tracking error is the annualized standard deviation of the excess returns.
Sharpe Ratio	Sharpe Ratio is a measure of the excess return per unit of risk in an investment asset or a trading strategy. A higher Sharpe ratio indicates you are receiving more return for the level of risk taken.
Downside Capture Ratio	Measures manager's performance in down markets relative to a particular benchmark. A down- market is defined as those periods (months or quarters) in which market return is < 0.
Upside Capture Ratio	Measures manager's performance in up markets relative to a particular benchmark. An up-market is defined as those periods (months or quarters) in which market return is > 0.
Annualized Excess Return over Risk Free	Difference between the portfolio and the risk-free benchmark's return, annualized.
Annualized Excess Return	Difference between the portfolio and the benchmark's return, annualized.
Correlation	A statistic that measures the degree to which two data series move in relation to each other. The higher the correlation the more the data series move in tandem. Correlation ranges from +1 (perfect correlation), to -1 (perfect negative correlation), with zero indicating no correlation at all.