



## **Board of Regents Report**

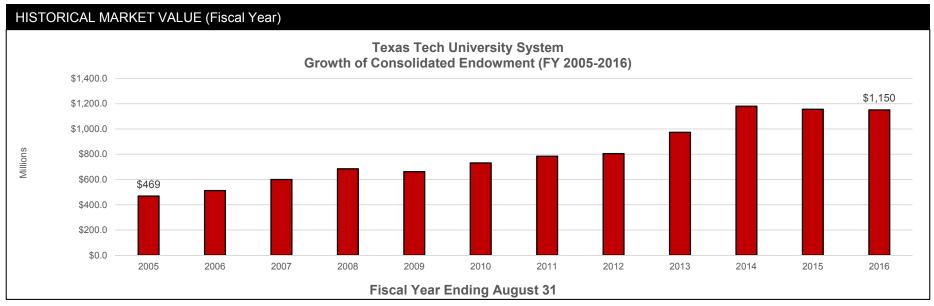
for November 2016

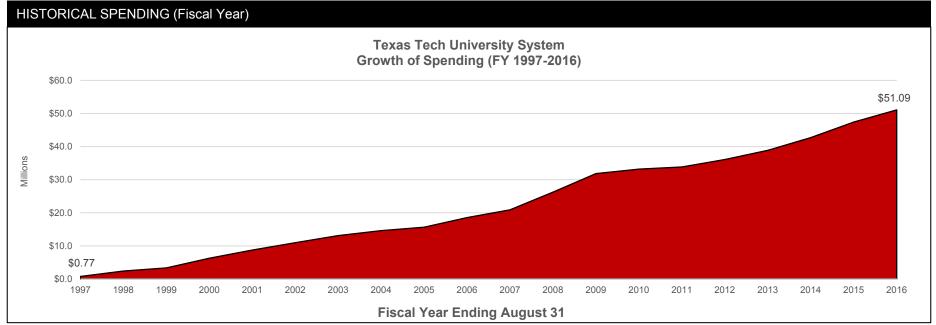
**Texas Tech University System Endowment** 



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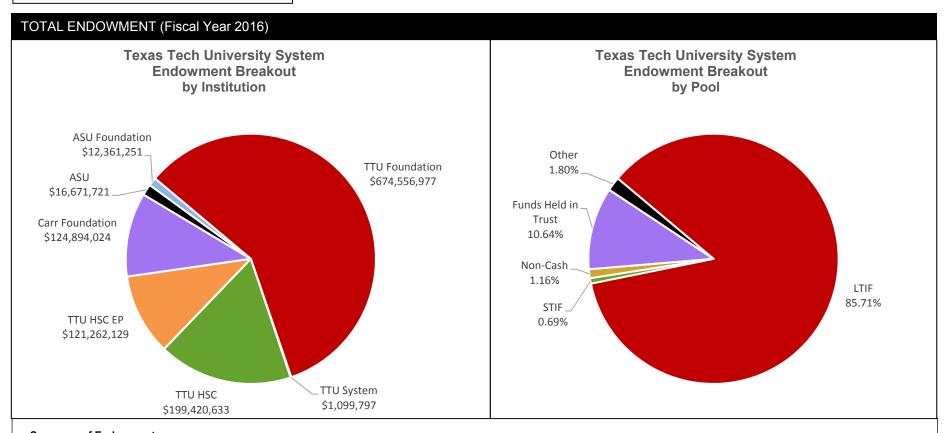
**Endowment Data** 





The 4.5% distribution rate has been realized every year since inception.

#### **Endowment Data (cont.)**

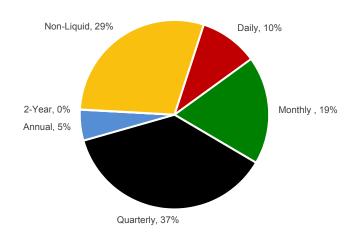


Summary of Endowment								
	TTU Foundation	TTU System	TTU HSC	TTU HSC EP	Carr Foundation	ASU	ASU Foundation	Total
LTIF	\$611,180,017	\$1,099,797	\$136,082,077	\$90,866,446	\$118,056,190	\$16,271,854	\$12,361,251	\$985,917,631
STIF	\$5,037,791	\$0	\$2,521,431	\$242	\$0	\$399,575	\$0	\$7,959,038
Non-Cash	\$5,037,564	\$0	\$1,439,974	\$0	\$6,837,834	\$0	\$0	\$13,315,372
Funds Held in Trust	\$32,607,123	\$0	\$59,377,151	\$30,395,442	\$0	\$0	\$0	\$122,379,716
Other	\$20,694,482	\$0	\$0	\$0	\$0	\$292	\$0	\$20,694,774
Total	\$674.556.977	\$1.099.797	\$199.420.633	\$121.262.129	\$124.894.024	\$16.671.721	\$12.361.251	\$1.150.266.531

#### 30th November 2016

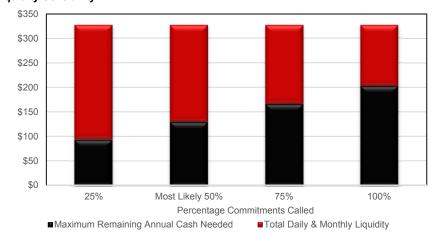
#### **LTIF Liquidity**

#### LTIF Liquidity



LTIF		Liquidity
Daily	\$106,210,676	10.0%
Monthly	\$196,110,456	18.5%
Quarterly	\$394,295,594	37.1%
Annual	\$55,819,475	5.3%
2-Year	\$518,063	0.0%
Non-Liquid	\$309,105,899	29.1%
Total LTIF	\$1,062,060,162	100%

#### Liquidity Sensitivity



	Commitment	Capital Called	<u>Distributions</u>	Account Balance	Remaining Commitment
Private Equity	\$207,000,000	\$114,886,641	\$58,974,584	\$80,812,174	\$92,113,359
Private Credit	\$151,603,248	\$121,949,424	\$24,960,455	\$126,989,764	\$29,653,824
Private Real Assets	\$286,698,950	\$262,699,386	\$184,600,817	\$119,567,073	\$23,999,564
Total Illiquid Assets	\$645,302,198	\$499,535,451	\$268,535,856	\$327,369,010	\$145,766,747

Annual Spending \$57,500,000

Total Committed Funds \$203,266,747

Unfunded Commitments - Se	ensitivity Analysis
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Maximum Remaining Annual Cash Needed Percentage of Daily & Monthly Liquidity

25% Called	Most Likely 50% Called	75% Called	100% Called	
\$93,941,687	\$130,383,374	\$166,825,060	\$203,266,747	
29%	40%	51%	62%	

## **(1)**

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#### Market Data

Benchmarks	Underlying	Weight	MTD Perf.	3 Mo. Perf.	Calendar YTD	Fiscal YTD	Nacubo YTD	1 Year Perf.	3 Year Perf.	5 Year Perf.
Policy Benchmarks			-0.56%	-1.86%	4.95%	-0.30%	1.52%	4.14%	4.98%	7.17%
Equity	MSCI AC World IMI (Net)	35%	1.09%	-0.87%	6.07%	-0.14%	4.65%	4.10%	3.12%	9.08%
Debt	Barclays Global Aggregate	25%	-3.97%	-6.64%	2.56%	-6.12%	-5.88%	3.10%	-0.23%	0.43%
Liquid Real Assets	CPI + 4%	10%	0.53%	1.22%	5.53%	1.84%	2.68%	5.76%	4.72%	5.05%
Private Investments	VE All PE Qtr Lag	27%	0.00%	0.00%	4.73%	3.98%	3.98%	3.31%	10.98%	10.71%
Private Investments	NCREIF	3%	0.00%	0.00%	6.13%	1.77%	1.77%	9.22%	11.30%	11.18%
Other Benchmarks										
Equity	S&P 500 Total Return		3.70%	1.81%	9.79%	1.83%	5.73%	8.06%	9.07%	14.45%
Equity	MSCI EAFE (Net)		-1.99%	-4.00%	-2.34%	-2.82%	2.18%	-3.66%	-2.22%	5.62%
Equity	MSCI EMF (Net)		-4.60%	-4.38%	10.94%	-3.15%	4.26%	8.47%	-3.10%	0.99%
Debt	JP Morgan EM Bond Index		-4.17%	-5.57%	8.63%	-5.25%	-2.04%	7.00%	5.29%	5.39%
Cash & Alpha Pool	90 Day T-Bills		0.04%	0.07%	0.28%	0.09%	0.14%	0.30%	0.12%	0.10%
Hedge Funds	HFRI FOF Composite		0.27%	-0.02%	-0.36%	0.32%	2.28%	-0.78%	1.34%	3.12%
Private Investments	Private Market Index (90% VE, 10% NCREIF)		0.00%	0.00%	4.87%	3.76%	3.76%	3.90%	11.01%	10.75%

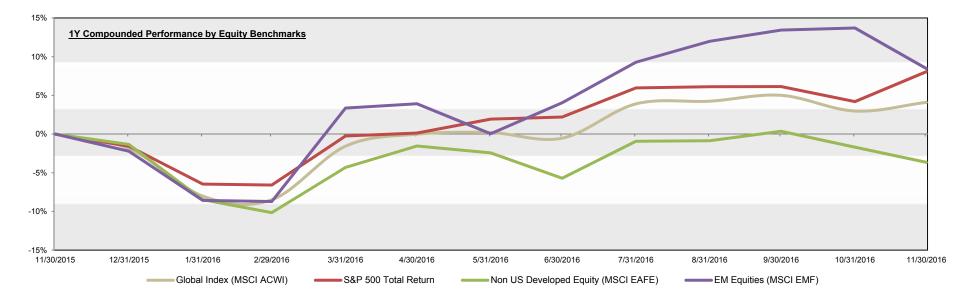
#### CIO NOTES:

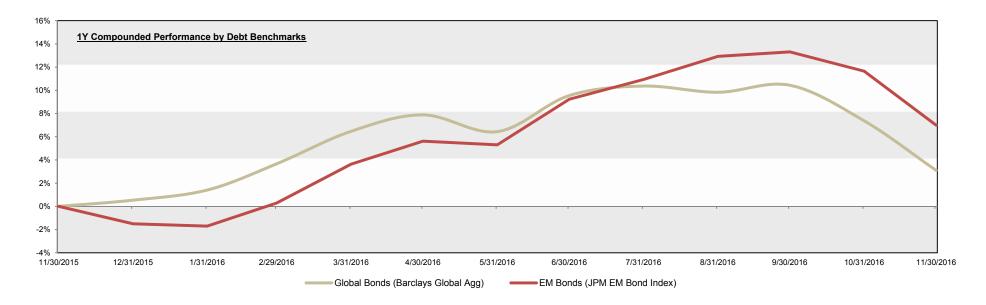
Global equity markets have been disappointing in 2016 with substantial sell offs in the first quarter leaving markets down nearly 10% over a few short weeks. As markets recovered, Brexit fears resulted in a second equity sell off in early Summer. With that said, the overall portfolio has performed very well considering those bouts of market volatility. For the month, quarter, Calendar YTD and 1 Year periods, the portfolio is outperforming the Policy Benchmark. This can be seen on page 9 of the report.

A big wind at our back this calendar year is from our public debt portfolio which has delivered 14.46% versus 2.56% for the benchmark. The charts on page 10 show the improvement. As you can see the portfolio is outperforming over the 1 year period, and importantly we very close to exceeding the benchmarks over the three and five year periods.

On the cautious front, there is mounting concern on how tight credit spreads have moved into 2017 and the valuation of equities, especially in the US. We continue to take action to monitor the risk of the portfolio and look for stable return strategies in light of these elevated risks.

#### Market Data (cont.)

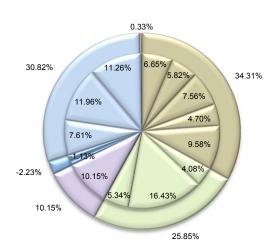




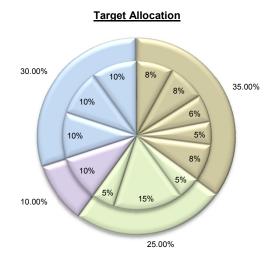
#### 30th November 2016

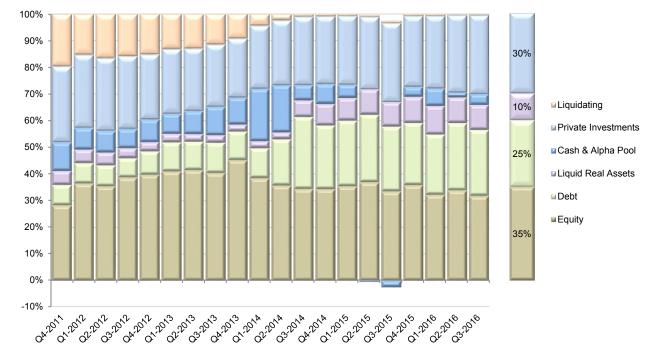
#### **Asset Class Allocation: Actual vs. Target**

#### **Actual Allocation**



Asset Class		Actual \$ Allocation	Total %	Target %	Townst Dance	
	Physical	Synthetic	Total	Allocation	Allocation	Target Range
Equity	202,664,841	161,676,387	364,341,229	34.31%	35%	30% - 40%
Debt	231,174,914	43,362,500	274,537,414	25.85%	25%	20% - 30%
Liquid Real Assets	96,697,080	11,068,511	107,765,591	10.15%	10%	5% - 15%
Cash & Alpha Pool	200,670,236	-224,385,652	-23,715,416	-2.23%	0%	0% - 10%
Private Investments	327,369,010	0	327,369,010	30.82%	30%	10% - 55%
Liquidating	3,484,080	0	3,484,080	0.33%	0%	
Portfolio Hedge	0	8,278,254	8,278,254	0.78%	0%	
Total	1,062,060,162	0	1,062,060,162	100%	100%	

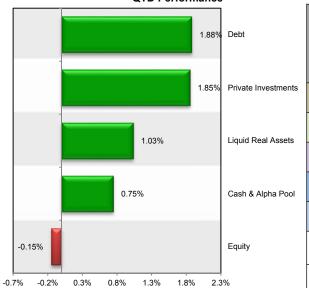




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### Asset Class Performance: Actual vs. Policy

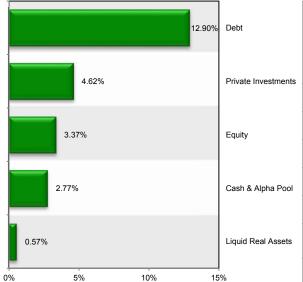
#### **QTD Performance**



	Month							
Asset Class	Physical Return	Synthetic Overlay	Alpha Pool + Cash	Total Return	Policy			
Equity	1.07%	0.79%	0.11%	1.00%	1.09%			
Debt	0.23%	-0.39%	0.11%	0.15%	-3.97%			
Liquid Real Assets	0.85%	3.86%	0.11%	1.16%	0.53%			
Cash & Alpha Pool	0.11%			0.11%				
Private Investments	1.74%			1.74%	0.00%			
Portfolio Hedge Contri.	0.03%			0.03%				
Total	0.89%	0.69%	0.11%	0.90%	-0.56%			

	QTD						
Asset Class	Physical Return	Synthetic Overlay	Alpha Pool + Cash	Total Return	Policy		
Equity	-1.24%	0.35%	0.73%	-0.15%	-0.87%		
Debt	2.36%	-0.54%	0.73%	1.88%	-6.64%		
Liquid Real Assets	0.47%	6.95%	0.73%	1.03%	1.22%		
Cash & Alpha Pool	0.75%			0.75%			
Private Investments	1.85%			1.85%	0.00%		
Portfolio Hedge Contri.	-0.07%			-0.07%			
Total	0.97%	0.54%	0.73%	1.00%	-1.86%		

#### One Year Performance

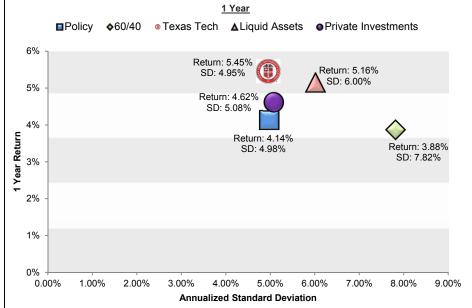


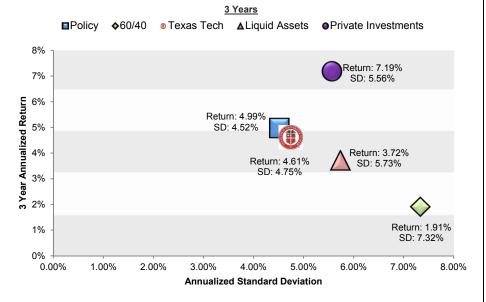
	Calendar YTD							
Asset Class	Physical Return	Synthetic Overlay	Alpha Pool + Cash	Total Return	Policy			
Equity	3.55%	2.69%	5.23%	5.83%	6.07%			
Debt	15.77%	0.22%	5.23%	14.46%	2.56%			
Liquid Real Assets	-3.52%	21.75%	5.23%	-1.34%	5.53%			
Cash & Alpha Pool	5.34%			4.09%				
Private Investments	8.09%			8.09%	4.87%			
Portfolio Hedge Contri.	n/a			n/a				
Total	7.02%	2.98%	5.23%	6.77%	4.95%			

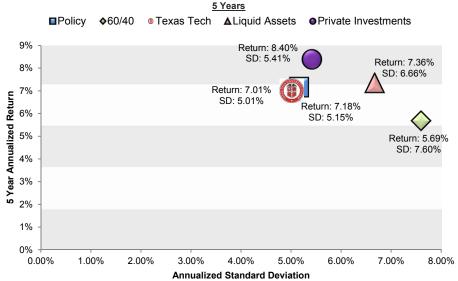
	1 Year						
Asset Class	Physical Return	Synthetic Overlay	Alpha Pool + Cash	Total Return	Policy		
Equity	1.90%	-0.47%	4.57%	3.37%	4.10%		
Debt	14.26%	0.08%	4.57%	12.90%	3.10%		
Liquid Real Assets	-4.04%	30.56%	4.57%	0.57%	5.76%		
Cash & Alpha Pool	4.81%			2.77%			
Private Investments	4.62%			4.62%	3.90%		
Portfolio Hedge Contri.	n/a			n/a			
Total	5.23%	0.96%	4.57%	5.45%	4.14%		

#### Long Term Risk/Return of Endowment vs. 60/40 Portfolio & Policy Returns

# Commentary The Texas Tech portfolio is less volatile than the 60/40 portfolio over all time The Texas Tech portfolio outperforms the 60/40 portfolio over all time horizons. Volatility (measured by standard deviation) on the Texas Tech portfolio has decreased over the past 12 months compared with the annualized 5 year volatility.





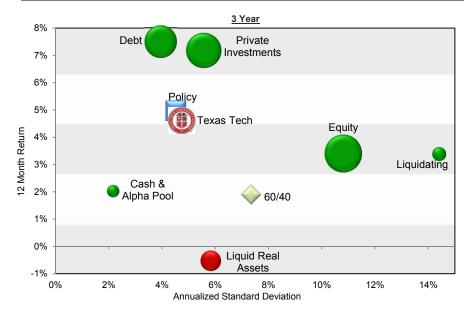


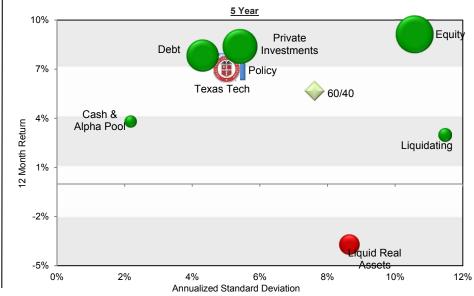
#### **Risk Profile**

#### Commentary

- EM Debt, US Equity, and Credit have provided the highest risk adjusted returns over the last 12 months
- Liquidating, Non US Developed Equity, and Liquid Real Assets have generated the lowest risk adjusted returns over the last 12 months.





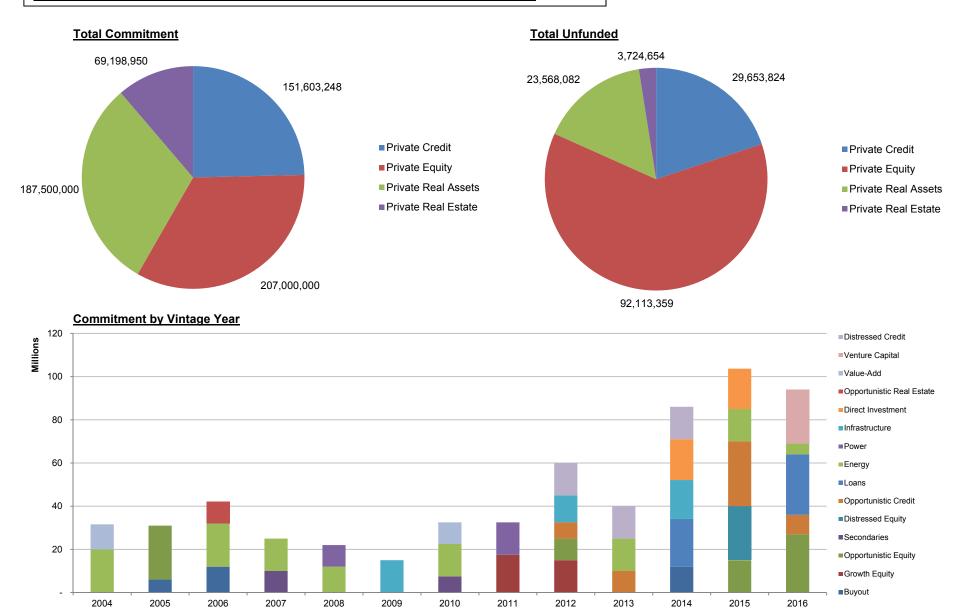


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#### Appendix I - Sub-Asset Detail

TOTAL   1,082,080,162   0.99%   1.09%   6.77%   2.88%   5.95%   5.45%   4.14%   4.99%   7.18%   Portifolio Hedge   8,278,254   0.33%   0.03%   0.07%   0.18   0.08%   0.02%   n.18   n	Fund	Current Exposure	MTD Perf.	QTD Perf.	Calendar YTD	Fiscal YTD	Nacubo YTD	1 Year Perf.	3 Year Perf.	5 Year Perf.
Portfolic Hedge	TOTAL	1,062,060,162	0.90%	1.00%	6.77%	2.58%	5.95%	5.45%	4.61%	7.01%
Equity Policy Benchmark (MSCI ACWI) 1.09% 0.18% 0.19% 0.19% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10% 0.10%	Policy		-0.56%	-1.86%	4.95%	-0.30%	1.52%	4.14%	4.99%	7.18%
Equity Policy Benchmark (MSCI ACWI)  1.09%	Portfolio Hedge	8,278,254	0.03%	-0.07%	n/a	-0.08%	-0.26%	n/a	n/a	n/a
US Equity		364,341,229	1.00%	-0.15%	5.97%	1.05%	7.47%	3.56%	3.48%	9.20%
Benchmark: S&P 500 Total Return   14.45%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1.18%   1	Equity Policy Benchmark (MSCI ACWI)		1.09%	-0.87%	6.07%	-0.14%	4.65%	4.10%	3.12%	9.08%
Global Equity   61,817.290	US Equity	70,591,674	2.91%	1.75%	16.11%	2.84%	8.29%	12.88%	8.08%	12.99%
Benchmark: MSCI ACWI (Net)	Benchmark: S&P 500 Total Return		3.70%	1.81%	9.79%	1.83%	5.73%	8.06%	9.07%	14.45%
Non US Developed Equity   80,251,111   -0.45%   0.54%   2.28%   2.15%   9.10%   -1.49%   -0.61%   6.72%     Benchmark: MSCI EAFE (Net)   -1.99%   4.00%   -2.34%   -2.82%   2.18%   3.06%   -3.66%   -2.22%   5.62%     Benchmark: MSCI EMF (Net)   -4.60%   -4.30%   10.94%   -3.15%   4.26%   8.47%   -3.10%   0.99%     Benchmark: MSCI EMF (Net)   -1.99%   10.1718,887   2.49%   0.29%   2.76%   1.92%   7.29%   0.05%   2.18%   -3.10%   0.99%     Benchmark: MSCI EMF (Net)   -1.09%   1.03%   -0.87%   6.07%   -0.14%   4.65%   4.26%   8.47%   -3.10%   0.99%     Benchmark: MSCI ACWI (Net)   -1.09%   -0.87%   6.07%   -0.14%   4.65%   4.10%   3.12%   9.08%     Benchmark: MSCI Benchmark (Barclays Global Agg)   -3.97%   -6.84%   2.56%   -6.12%   5.88%   3.10%   -0.23%   0.43%     Sovereign/Investment Grade Bonds   43.362,500   -0.28%   0.19%   5.71%   1.33%   2.71%   5.06%   3.49%   3.79%     Senchmark: Barclays Global Aggregate   -3.97%   -6.64%   2.56%   -6.12%   5.88%   3.10%   -0.23%   0.43%     Benchmark: Barclays Global Aggregate   -3.97%   -6.64%   2.56%   -6.12%   5.88%   3.10%   -0.23%   0.43%     Benchmark: Barclays Global Aggregate   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%   -7.90%	Global Equity	61,817,290	1.16%	-2.97%	2.74%	-1.74%	5.27%	1.36%	5.19%	14.06%
Benchmark: MSCI EAFE (Net)	Benchmark: MSCI ACWI (Net)		1.09%	-0.87%	6.07%	-0.14%	4.65%	4.10%	3.12%	9.08%
No No Semerging Markets Equity   49,962,266   -2,61%   -1,90%   11,65%   -0,11%   8.39%   11,11%   1,09%   0.33%   Benchmark: MSCI EMF (Net)   101,718,887   2,49%   0.29%   2,76%   1,92%   7,29%   0.65%   2,11%   7,91%   Benchmark: MSCI ACWI (Net)   109%   -0,87%   6.07%   -0,14%   4.65%   4.10%   3,12%   9,08%   0.65%   2,13%   7,91%   0.65%   2,13%   7,91%   0.65%   0.14%   4.65%   4.10%   3,12%   7,91%   0.65%   0.14%   0.15%   1.88%   14.47%   4.20%   8.37%   12,92%   7,54%   7,86%   0.65%   0.14%   0.15%   0.14%   0.15%   0.14%   0.15%   0.14%   0.15%   0.14%   0.15%   0.14%   0.15%   0.15%   0.19%   0.19%   0.19%   0.19%   0.19%   0.19%   0.13%   0.13%   0.12%   0.13%   0.14%   0.15%   0.14%   0.15%   0.15%   0.14%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%   0.15%	Non US Developed Equity	80,251,111	-0.45%	0.54%	2.28%	2.15%	9.10%	-1.49%	-0.61%	6.72%
Benchmark: MSCI EMF (Net)	Benchmark: MSCI EAFE (Net)		-1.99%	-4.00%	-2.34%	-2.82%	2.18%	-3.66%	-2.22%	5.62%
Alternative Equity	Non US Emerging Markets Equity	49,962,266	-2.61%	-1.90%	11.65%	-0.11%	8.39%	11.11%	1.09%	3.32%
Benchmark: MSCI ACWI (Net)	Benchmark: MSCI EMF (Net)		-4.60%	-4.38%	10.94%	-3.15%	4.26%	8.47%	-3.10%	0.99%
Debt   274,537,414   0.15%   1.88%   14.47%   4.20%   8.37%   12.92%   7.54%   7.86%   1.88%   1.88%   1.447%   2.56%   6.12%   5.88%   3.10%   0.23%   0.43%   3.79%   6.64%   2.56%   6.12%   5.88%   3.10%   0.23%   0.43%   3.79%   6.64%   2.56%   6.12%   5.88%   3.10%   0.23%   0.43%   3.79%   6.64%   2.56%   6.12%   5.88%   3.10%   0.23%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43%   0.43	Alternative Equity	101,718,887	2.49%	0.29%	2.76%	1.92%	7.29%	0.65%	2.18%	7.91%
Debt Policy Benchmark (Barclays Global Agg)   -3.97%   -6.64%   2.56%   -6.12%   -5.88%   3.10%   -0.23%   0.43%     Sovereign/Investment Grade Bonds   43,362,500   -0.28%   0.19%   5.71%   1.33%   2.71%   5.66%   3.49%   3.79%     Benchmark: Barclays Global Aggregate   -3.97%   -6.64%   2.56%   -6.12%   -5.88%   3.10%   -0.23%   0.43%     Credit   174,463,874   0.14%   2.70%   13.28%   4.47%   9.88%   12.23%   5.88%   9.52%     Benchmark: Barclays Global Aggregate   -3.97%   -6.64%   2.56%   -6.12%   -5.88%   3.10%   -0.23%   0.43%     Benchmark: Jer Morgan Edit Debt   -5.6711,040   0.53%   1.31%   22.12%   6.41%   9.65%   19.31%   10.33%   9.21%     Benchmark: Jer Morgan EM Bond Index   -4.17%   -5.57%   8.63%   -5.25%   -2.04%   7.00%   5.29%   5.39%     Liquid Real Assets   107,765,591   1.16%   1.03%   -1.10%   1.57%   2.96%   0.64%   -0.53%   -3.70%     Benchmark: CPI +4%   -0.53%   1.22%   5.53%   1.84%   2.68%   5.76%   5.26%   5.38%     Cash & Alpha Pool   (23,715,416)   0.11%   0.75%   5.34%   1.80%   3.49%   4.81%   2.89%   4.81%     Cash Collateral   10.991,762   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%   0.00%	Benchmark: MSCI ACWI (Net)		1.09%	-0.87%	6.07%	-0.14%	4.65%	4.10%	3.12%	9.08%
Sovereign/Investment Grade Bonds	Debt	274,537,414	0.15%	1.88%	14.47%	4.20%	8.37%	12.92%	7.54%	7.86%
Benchmark: Barclays Global Aggregate	Debt Policy Benchmark (Barclays Global Agg)		-3.97%	-6.64%	2.56%	-6.12%	-5.88%	3.10%	-0.23%	0.43%
Credit         174,463,874         0.14%         2.70%         13.28%         4.47%         9.88%         12.23%         5.88%         9.52%           Benchmark: Barclays Global Aggregate         -3.97%         -6.64%         2.56%         -6.12%         -5.88%         3.10%         -0.23%         0.43%           Emerging Markets Debt         56,711,040         0.53%         1.31%         22.12%         6.41%         9.65%         19.31%         10.33%         9.21%           Benchmark: JP Morgan EM Bond Index         -4.17%         -5.57%         8.63%         -5.25%         -2.04%         7.00%         5.29%         5.39%           Liquid Real Assets         107,765,591         1.16%         1.03%         -1.10%         1.57%         2.96%         0.64%         -0.53%         -3.70%           Benchmark: CPI + 4%         0.53%         1.22%         5.53%         1.84%         2.68%         5.76%         5.26%         5.38%           Cash Cash         (23,715,416)         0.11%         0.75%         5.34%         1.80%         3.49%         4.81%         2.89%         4.34%           Cash Collateral         10,991,762         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0	Sovereign/Investment Grade Bonds	43,362,500	-0.28%	0.19%	5.71%	1.33%	2.71%	5.06%	3.49%	3.79%
Benchmark: Barclays Global Aggregate	Benchmark: Barclays Global Aggregate		-3.97%	-6.64%	2.56%	-6.12%	-5.88%	3.10%	-0.23%	0.43%
Emerging Markets Debt   56,711,040   0.53%   1.31%   22.12%   6.41%   9.65%   19.31%   10.33%   9.21%   Benchmark: JP Morgan EM Bond Index   4.17%   -5.57%   8.63%   -5.25%   -2.04%   7.00%   5.29%   5.39%   5.39%   1.104   1.03%   -1.10%   1.57%   2.96%   0.64%   -0.53%   -3.70%   1.004   1.00%   1.57%   2.96%   0.64%   -0.53%   -3.70%   1.004   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%   1.00%	Credit	174,463,874	0.14%	2.70%	13.28%	4.47%	9.88%	12.23%	5.88%	9.52%
Benchmark: JP Morgan EM Bond Index	Benchmark: Barclays Global Aggregate		-3.97%	-6.64%	2.56%	-6.12%	-5.88%	3.10%	-0.23%	0.43%
Liquid Real Assets         107,765,591         1.16%         1.03%         -1.10%         1.57%         2.96%         0.64%         -0.53%         -3.70%           Benchmark: CPI + 4%         0.53%         1.22%         5.53%         1.84%         2.68%         5.76%         5.26%         5.38%           Cash & Alpha Pool         (23,715,416)         0.11%         0.75%         5.34%         1.80%         3.49%         4.81%         2.89%         4.34%           Cash         23,005,198         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00% <t< td=""><td>Emerging Markets Debt</td><td>56,711,040</td><td>0.53%</td><td>1.31%</td><td>22.12%</td><td>6.41%</td><td>9.65%</td><td>19.31%</td><td>10.33%</td><td>9.21%</td></t<>	Emerging Markets Debt	56,711,040	0.53%	1.31%	22.12%	6.41%	9.65%	19.31%	10.33%	9.21%
Benchmark: CPI + 4%         0.53%         1.22%         5.53%         1.84%         2.68%         5.76%         5.26%         5.38%           Cash & Alpha Pool         (23,715,416)         0.11%         0.75%         5.34%         1.80%         3.49%         4.81%         2.89%         4.34%           Cash         23,005,198         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%	Benchmark: JP Morgan EM Bond Index		-4.17%	-5.57%	8.63%	-5.25%	-2.04%	7.00%	5.29%	5.39%
Cash & Alpha Pool         (23,715,416)         0.11%         0.75%         5.34%         1.80%         3.49%         4.81%         2.89%         4.34%           Cash         23,005,198         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.0	Liquid Real Assets	107,765,591	1.16%	1.03%	-1.10%	1.57%	2.96%	0.64%	-0.53%	-3.70%
Cash         23,005,198         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%	Benchmark: CPI + 4%		0.53%	1.22%	5.53%	1.84%	2.68%	5.76%	5.26%	5.38%
Cash Collateral         10,991,762         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         n/a         n/a           Collateral Held Elsewhere         5,840,000         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         n/a         n/a           Adjustments for Synthetic Exposure         (224,385,652)         Frivate Investments         0.14%         0.91%         6.83%         2.26%         4.48%         6.00%         4.01%         6.32%           Benchmark: HFRI FOF Index         0.27%         -0.02%         -0.36%         0.32%         2.28%         -0.78%         1.34%         3.12%           Liquidating         3,484,080         0.99%         -0.38%         -0.71%         -0.98%         0.99%         -6.77%         3.40%         3.00%           Private Investments         327,369,010         1.74%         1.85%         8.09%         4.18%         5.63%         4.62%         7.19%         8.40%           Benchmark: Private Market Index (90% VE, 10% NCREIF)         0.00%         0.00%         4.87%         3.76%         3.76%         3.90%         11.01%         10.75%           Private Equity         80,812,174         4.04%         3.96%         7.59% <td>Cash &amp; Alpha Pool</td> <td>(23,715,416)</td> <td>0.11%</td> <td>0.75%</td> <td>5.34%</td> <td>1.80%</td> <td>3.49%</td> <td>4.81%</td> <td>2.89%</td> <td>4.34%</td>	Cash & Alpha Pool	(23,715,416)	0.11%	0.75%	5.34%	1.80%	3.49%	4.81%	2.89%	4.34%
Collateral Held Elsewhere         5,840,000         0.00%         0.00%         0.00%         0.00%         0.00%         0.00%         n/a         n/a           Adjustments for Synthetic Exposure         (224,385,652)	Cash	23,005,198	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.19%
Adjustments for Synthetic Exposure       (224,385,652)         Alpha Pool       160,833,277       0.14%       0.91%       6.83%       2.26%       4.48%       6.00%       4.01%       6.32%         Benchmark: HFRI FOF Index       0.27%       -0.02%       -0.36%       0.32%       2.28%       -0.78%       1.34%       3.12%         Liquidating       3,484,080       0.99%       -0.38%       -0.71%       -0.98%       0.99%       -6.77%       3.40%       3.00%         Private Investments       327,369,010       1.74%       1.85%       8.09%       4.18%       5.63%       4.62%       7.19%       8.40%         Benchmark: Private Market Index (90% VE, 10% NCREIF)       0.00%       0.00%       4.87%       3.76%       3.76%       3.90%       11.01%       10.75%         Private Equity       80,812,174       4.04%       3.96%       7.59%       5.47%       4.65%       2.54%       7.99%       8.77%         Private Credit       126,989,764       0.52%       1.37%       10.34%       2.74%       4.27%       5.65%       6.53%       10.25%	Cash Collateral	10,991,762	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	n/a	n/a
Alpha Pool         160,833,277         0.14%         0.91%         6.83%         2.26%         4.48%         6.00%         4.01%         6.32%           Benchmark: HFRI FOF Index         0.27%         -0.02%         -0.36%         0.32%         2.28%         -0.78%         1.34%         3.12%           Liquidating         3,484,080         0.99%         -0.38%         -0.71%         -0.98%         0.99%         -6.77%         3.40%         3.00%           Private Investments         327,369,010         1.74%         1.85%         8.09%         4.18%         5.63%         4.62%         7.19%         8.40%           Benchmark: Private Market Index (90% VE, 10% NCREIF)         0.00%         0.00%         4.87%         3.76%         3.76%         3.90%         11.01%         10.75%           Private Equity         80,812,174         4.04%         3.96%         7.59%         5.47%         4.65%         2.54%         7.99%         8.77%           Private Credit         126,989,764         0.52%         1.37%         10.34%         2.74%         4.27%         5.65%         6.53%         10.25%	Collateral Held Elsewhere	5,840,000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	n/a	n/a
Benchmark: HFRI FOF Index         0.27%         -0.02%         -0.36%         0.32%         2.28%         -0.78%         1.34%         3.12%           Liquidating         3,484,080         0.99%         -0.38%         -0.71%         -0.98%         0.99%         -6.77%         3.40%         3.00%           Private Investments         327,369,010         1.74%         1.85%         8.09%         4.18%         5.63%         4.62%         7.19%         8.40%           Benchmark: Private Market Index (90% VE, 10% NCREIF)         0.00%         0.00%         4.87%         3.76%         3.76%         3.90%         11.01%         10.75%           Private Equity         80,812,174         4.04%         3.96%         7.59%         5.47%         4.65%         2.54%         7.99%         8.77%           Private Credit         126,989,764         0.52%         1.37%         10.34%         2.74%         4.27%         5.65%         6.53%         10.25%	Adjustments for Synthetic Exposure	(224,385,652)								
Liquidating         3,484,080         0.99%         -0.38%         -0.71%         -0.98%         0.99%         -6.77%         3.40%         3.00%           Private Investments         327,369,010         1.74%         1.85%         8.09%         4.18%         5.63%         4.62%         7.19%         8.40%           Benchmark: Private Market Index (90% VE, 10% NCREIF)         0.00%         0.00%         4.87%         3.76%         3.76%         3.90%         11.01%         10.75%           Private Equity         80,812,174         4.04%         3.96%         7.59%         5.47%         4.65%         2.54%         7.99%         8.77%           Private Credit         126,989,764         0.52%         1.37%         10.34%         2.74%         4.27%         5.65%         6.53%         10.25%	Alpha Pool	160,833,277	0.14%	0.91%	6.83%	2.26%	4.48%	6.00%	4.01%	6.32%
Private Investments         327,369,010         1.74%         1.85%         8.09%         4.18%         5.63%         4.62%         7.19%         8.40%           Benchmark: Private Market Index (90% VE, 10% NCREIF)         0.00%         0.00%         4.87%         3.76%         3.76%         3.90%         11.01%         10.75%           Private Equity         80,812,174         4.04%         3.96%         7.59%         5.47%         4.65%         2.54%         7.99%         8.77%           Private Credit         126,989,764         0.52%         1.37%         10.34%         2.74%         4.27%         5.65%         6.53%         10.25%	Benchmark: HFRI FOF Index		0.27%	-0.02%	-0.36%	0.32%	2.28%	-0.78%	1.34%	3.12%
Benchmark: Private Market Index (90% VE, 10% NCREIF)         0.00%         0.00%         4.87%         3.76%         3.76%         3.90%         11.01%         10.75%           Private Equity         80,812,174         4.04%         3.96%         7.59%         5.47%         4.65%         2.54%         7.99%         8.77%           Private Credit         126,989,764         0.52%         1.37%         10.34%         2.74%         4.27%         5.65%         6.53%         10.25%	Liquidating	3,484,080	0.99%	-0.38%	-0.71%	-0.98%	0.99%	-6.77%	3.40%	3.00%
Private Equity         80,812,174         4.04%         3.96%         7.59%         5.47%         4.65%         2.54%         7.99%         8.77%           Private Credit         126,989,764         0.52%         1.37%         10.34%         2.74%         4.27%         5.65%         6.53%         10.25%	Private Investments	327,369,010	1.74%	1.85%	8.09%	4.18%	5.63%	4.62%	7.19%	8.40%
Private Credit 126,989,764 0.52% 1.37% 10.34% 2.74% 4.27% 5.65% 6.53% 10.25%	Benchmark: Private Market Index (90% VE, 10% NCREIF)		0.00%	0.00%	4.87%	3.76%	3.76%	3.90%	11.01%	10.75%
	Private Equity	80,812,174	4.04%	3.96%	7.59%	5.47%	4.65%	2.54%	7.99%	8.77%
Private Real Assets 119,567,073 1.51% 0.99% 6.28% 4.83% 7.77% 4.87% 6.87% 6.83%	Private Credit	126,989,764	0.52%	1.37%	10.34%	2.74%	4.27%	5.65%	6.53%	10.25%
	Private Real Assets	119,567,073	1.51%	0.99%	6.28%	4.83%	7.77%	4.87%	6.87%	6.83%

#### Appendix II - Private Markets Report (as of November 2016) - Total Commitment



Data provided by Texas Tech University System Reported valuations use latest available statements ranging from June 2016 to November 2016 Adjusted Valuations include all cashflows through November 2016

#### 30<sup>th</sup> November 2016



#### Appendix II - Private Markets Report (as of November 2016) - Performance Analysis by Asset Class & Strategy Type

#### Performance by Asset Class

Asset Class	# of Funds	Commitment	Funded	Paid-In Capital	Distributions	% Drawn	Reported Valuation	Adjusted Valuation	IRR	мос
Private Equity	15	\$207,000,000	\$114,886,641	\$119,397,649	\$58,974,584	58%	\$80,103,622	\$80,531,395	4.61%	1.17
Private Credit	12	\$151,603,248	\$121,949,424	\$125,691,052	\$24,960,455	83%	\$117,695,054	\$120,949,453	8.04%	1.16
Private Real Assets	13	\$187,500,000	\$164,642,423	\$175,771,396	\$157,204,821	94%	\$68,221,431	\$67,832,887	13.63%	1.29
Private Real Estate	5	\$69,198,950	\$68,258,454	\$68,416,787	\$26,193,852	99%	\$51,216,977	\$51,041,977	3.74%	1.13
Total	45	\$615,302,198	\$469,736,942	\$489,276,884	\$267,333,712	80%	\$317,237,084	\$320,355,712	7.75%	1.20

#### Performance by Strategy Type

Asset Class	Strategy	# of Funds	Commitment	Funded	Paid-In Capital	Distributions	% Drawn	Reported Valuation	Adjusted Valuation	IRR	MOC
Private Equity	Buyout	3	\$30,000,000	\$21,777,399	\$22,762,222	\$20,086,832	76%	\$7,939,237	\$7,939,237	5.35%	1.23
	Distressed Equity	1	\$25,000,000	\$5,625,000	\$5,625,000	\$638,982	23%	\$8,226,766	\$8,226,766	108.16%	1.58
	Growth Equity	2	\$32,500,000	\$19,507,298	\$22,054,559	\$3,269,710	68%	\$20,420,712	\$20,491,814	3.39%	1.08
	Opportunistic Equity	6	\$77,000,000	\$49,552,828	\$49,805,299	\$22,582,946	65%	\$35,255,569	\$35,538,116	4.11%	1.17
	Secondaries	2	\$17,500,000	\$16,410,991	\$17,025,569	\$12,396,114	97%	\$7,304,134	\$6,360,133	2.39%	1.10
	Venture Capital	1	\$25,000,000	\$2,013,125	\$2,125,000	\$0	9%	\$957,204	\$1,975,329	-11.64%	0.93
	Total	15	\$207,000,000	\$114,886,641	\$119,397,649	\$58,974,584	58%	\$80,103,622	\$80,531,395	4.61%	1.17
Private Credit	Distressed Credit	3	\$45,000,000	\$41,281,472	\$41,410,540	\$15,125,202	92%	\$32,924,306	\$32,924,306	6.22%	1.16
	Loans	4	\$50,103,248	\$50,024,589	\$50,582,673	\$4,786,000	101%	\$54,964,540	\$54,964,540	10.26%	1.18
	Opportunistic Credit	5	\$56,500,000	\$30,643,363	\$33,697,839	\$5,049,253	60%	\$29,806,208	\$33,060,607	8.15%	1.13
	Total	12	\$151,603,248	\$121,949,424	\$125,691,052	\$24,960,455	83%	\$117,695,054	\$120,949,453	8.04%	1.16
Private Real Assets	Energy	8	\$117,000,000	\$103,564,419	\$108,527,525	\$108,384,576	93%	\$33,397,732	\$33,024,321	14.00%	1.32
	Infrastructure	3	\$45,500,000	\$39,470,744	\$44,819,865	\$40,069,609	99%	\$24,686,948	\$24,671,815	29.30%	1.44
	Power	2	\$25,000,000	\$21,607,260	\$22,424,006	\$8,750,636	90%	\$10,136,751	\$10,136,751	-6.27%	0.84
	Total	13	\$187,500,000	\$164,642,423	\$175,771,396	\$157,204,821	94%	\$68,221,431	\$67,832,887	13.63%	1.29
Private Real Estate	Direct Investment	2	\$37,613,450	\$39,373,050	\$39,373,050	\$8,611,934	105%	\$39,425,376	\$39,425,376	16.23%	1.22
	Opportunistic Real Estate	1	\$10,000,000	\$9,745,230	\$9,745,230	\$0	97%	\$3,801,618	\$3,801,618	-12.18%	0.39
	Value-Add	2	\$21,585,500	\$19,140,174	\$19,298,507	\$17,581,918	89%	\$7,989,983	\$7,814,983	5.31%	1.32
	Total	5	\$69,198,950	\$68,258,454	\$68,416,787	\$26,193,852	99%	\$51,216,977	\$51,041,977	3.74%	1.13



#### Appendix III - Glossary

#### Major Asset Classes

Alpha Pool: Investments that tend to be uncorrelated with "traditional" stock and bond investments. Not technically an asset class, but rather an investment construct within a \*portable alpha framework

Cash & Equivalents: Cash and short term investments held in lieu of cash and readily converted into cash within a short time span (i.e., CDs, commercial paper, Treasury bills, etc.)

Global Debt: Investments in debt instruments located in developed markets, may include various credit, mortgage-backed and emerging markets debt securities

Global Equity: Investments in companies domiciled in developed market countries and may include opportunistic investments in emerging market countries

<u>Liquidating:</u> The residual investment in terminated managers

Liquid Real Assets: Liquid investments in strategies whose values are sensitive to inflation

Private Equity: Investments in equity securities and debt in operating companies that are not publicly traded on a stock exchange

Private Real Assets: Investments in equity securities and debt in operating companies that are not publicly traded on a stock exchange and whose strategies are sensitive to inflation

#### Sub-Asset Classes

Alternative Equity: Investments in companies globally through both long and short positions and may include non-equity instruments such as fixed income, commodities, CDS, options, etc.

Credit: Investments in companies, often stressed or distressed, principally through the debt portion of capital structure

Emerging Market Debt: Investments in debt securities in emerging market countries, primarily in three categories - external sovereign, local sovereign, and corporate debt

Emerging Market Equity: Investments in companies located in emerging market countries

Investment Grade Bonds: Investments in investment grade rated debt securities

Non-US Developed Equity: Investments in companies domiciled in developed market countries

US Equity: Investments in companies domiciled in the US