



Board of Regents Report

for October 2018

Texas Tech University System

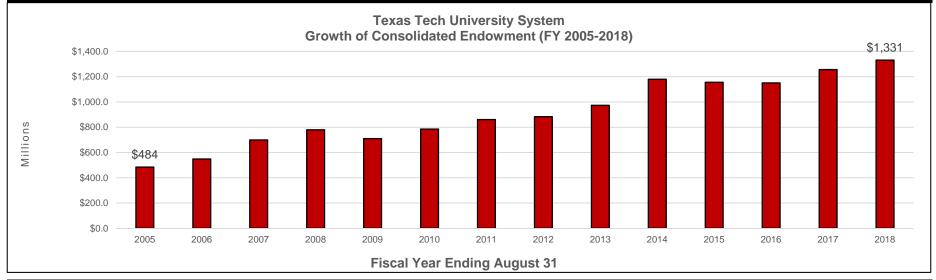


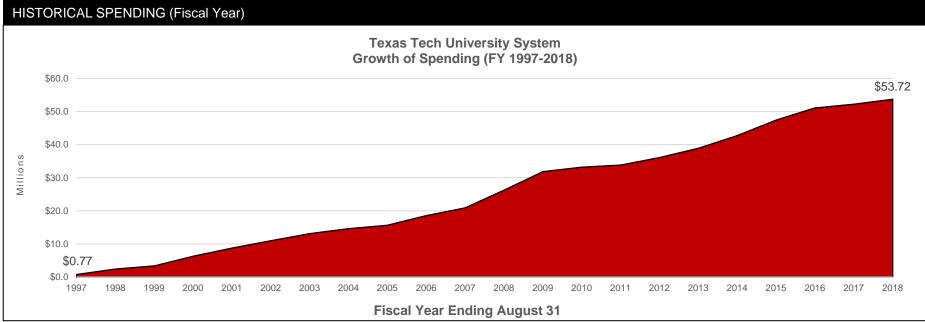
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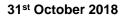
Endowment Data





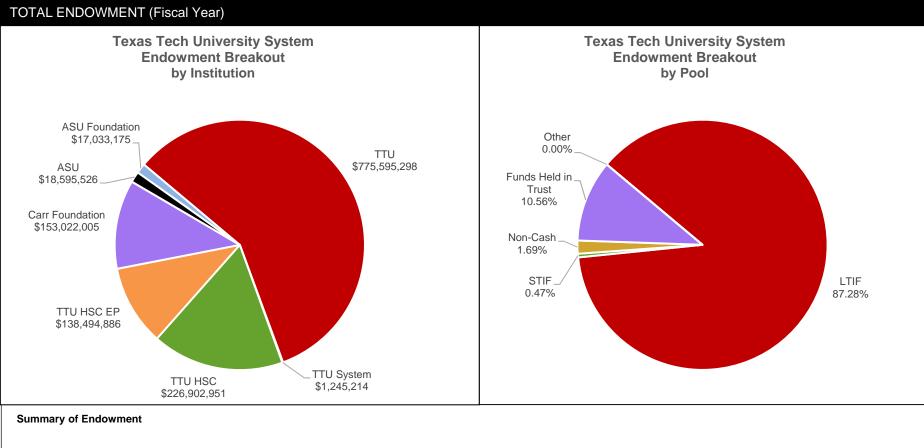


The 4.5% distribution rate has been realized every year since inception.





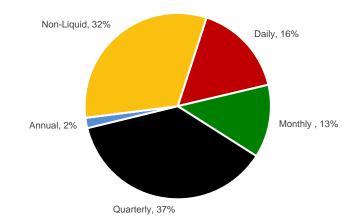
Endowment Data (cont.)



	TTU	TTU System	TTU HSC	TTU HSC EP	Carr Foundation	ASU	ASU Foundation	Total
LTIF	\$726,330,437	\$1,245,191	\$158,230,891	\$104,786,819	\$135,787,378	\$18,201,919	\$17,033,175	\$1,161,615,810
STIF	\$2,961,778	\$24	\$2,876,127	\$55	\$0	\$393,469	\$0	\$6,231,453
Non-Cash	\$4,562,548	\$0	\$712,695	\$0	\$17,234,627	\$0	\$0	\$22,509,870
Funds Held in Trust	\$41,740,534	\$0	\$65,083,238	\$33,708,012	\$0	\$0	\$0	\$140,531,784
Other	\$0	\$0	\$0	\$0	\$0	\$138	\$0	\$138
Total	\$775,595,298	\$1,245,214	\$226,902,951	\$138,494,886	\$153,022,005	\$18,595,526	\$17,033,175	\$1,330,889,055

LTIF Liquidity

LTIF Liquidity



LTIF		Liquidity
Daily	\$199,054,444	16.3%
Monthly	\$155,091,499	12.7%
Quarterly	\$454,283,762	37.2%
Annual	\$21,981,472	1.8%
2-Year	\$0	0.0%
Non-Liquid	\$390,781,730	32.0%
Total LTIF	\$1,221,192,908	100%

\$400 \$350 \$300 \$250 \$200 \$150 \$100 \$50 \$0 25% 75% Most Likely 50% 100% Percentage Commitments Called

Maximum Remaining Annual Cash Needed

	Commitment Capita	al Called Distributions	<u>Account</u> Balance	<u>Remaining</u> Commitment
Private Equity	\$251,010,000 \$162	,949,857 \$68,313,559	\$132,854,176	\$88,060,143
Private Credit	\$190,593,047 \$151	,718,712 \$55,397,361	\$140,389,856	\$38,874,335
Private Real Assets	\$264,663,450 \$235	,207,271 \$217,302,322	\$111,423,578	\$29,456,179
Total Illiquid Assets	\$706,266,497 \$549	,875,840 \$341,013,242	\$384,667,610	\$156,390,657

Annual Spending \$61,000,000

Total Committed Funds \$217,390,657

Unfunded Commitments - Sensitivity Analysis	25% Called	Most Likely 50% Called	75% Called	100% Called
Maximum Remaining Annual Cash Needed	\$100,097,664	\$139,195,329	\$178,292,993	\$217,390,657
Percentage of Daily & Monthly Liquidity	28%	39%	50%	61%

Total Daily & Monthly Liquidity

Liquidity Sensitivity





Market Data

Benchmarks	Underlying	Weight	MTD Perf.	QTD Perf.	Calendar YTD	Fiscal YTD	Nacubo YTD	1 Year Perf.	3 Year Perf.	5 Year Perf.
Policy Benchmarks			-2.99%	-2.99%	0.40%	-2.57%	-1.41%	3.09%	6.62%	6.41%
Equity	Global Index (MSCI ACWI with USA Gross)	30%	-7.47%	-7.47%	-3.57%	-7.03%	-3.40%	-0.08%	8.10%	6.31%
Debt	Global Bonds (Barclays Global Agg)	25%	-1.12%	-1.12%	-3.46%	-1.97%	-2.03%	-2.05%	1.52%	0.33%
Diversifying Assets	HFRX Global Hedge Fund	15%	-3.11%	-3.11%	-4.30%	-3.77%	-3.48%	-3.53%	2.74%	3.30%
Private Investments	Private Market Composite	30%	0.00%	0.00%	10.05%	2.01%	2.01%	14.08%	11.14%	12.58%
Other Benchmarks										
Equity	S&P 500 Total Return		-6.84%	-6.84%	3.01%	-6.30%	0.35%	7.35%	11.52%	11.34%
Equity	Non US Developed Equity (MSCI EAFE)		-7.96%	-7.96%	-9.28%	-7.16%	-6.71%	-6.85%	3.62%	2.02%
Equity	EM Equities (MSCI EMF)		-8.71%	-8.71%	-15.72%	-9.19%	-9.71%	-12.52%	6.52%	0.78%
Debt	EM Bonds (JPM EM Bond Index)		-2.23%	-2.23%	-5.61%	-0.50%	-0.40%	-5.27%	3.83%	3.61%
Cash & Alpha Pool	90 Day T-Bills		0.19%	0.19%	1.59%	0.37%	0.71%	1.81%	0.96%	0.59%
Hedge Funds	HFRI FOF Composite		-3.04%	-3.04%	-2.13%	-3.27%	-2.84%	-1.25%	1.92%	2.27%
Private Investments	Private Market Composite		0.00%	0.00%	10.05%	2.01%	2.01%	14.08%	11.14%	12.58%

CIO NOTES:

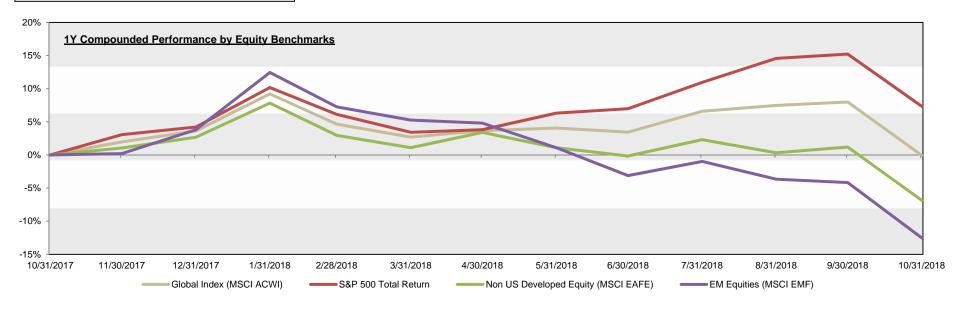
Volatility made a comeback in October as a wave of risk aversion washed over markets amid rising rates in the United States, growing concerns over slowing economic growth in China, and ongoing geopolitical tensions. Equities declined with international and emerging economies faring worse than US markets. The S&P 500 Index fell 6.8% even as the US unemployment rate declined to 3.7%, the lowest it has been in nearly 50 years. The MSCI EAFE Index lost 8%, while the MSCI Emerging Markets Index declined 8.7% last month.

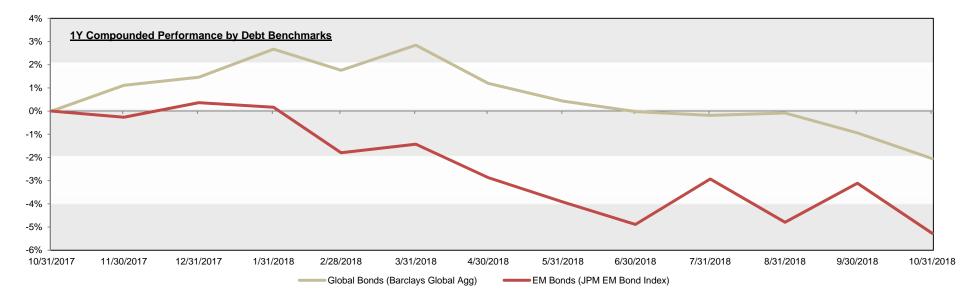
Despite the risk-off sentiment, fixed income moved lower as well with US yields moving higher. The 10-year Treasury increased eight basis points to 3.14% and the 30-year Treasury increased 19 basis points – causing long-duration US assets to decline. The Barclays Long Treasury Index and Barclays Long Credit Index fell 3.0% and 3.6%, respectively. Local- and dollar-denominated emerging market bonds declined during the month. The JPM EMBI Global Diversified Index fell 2% as spreads increased 31 basis points in October.

In real assets, crude oil gave up some of its third-quarter gains, falling 10.8% last month. Despite this decline, spot WTI crude oil remains up 8.1% year-to-date. The Alerian MLP Index declined 8% in October as higher yields in the US render riskier assets relatively less attractive.

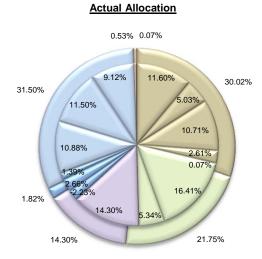


Market Data (cont.)



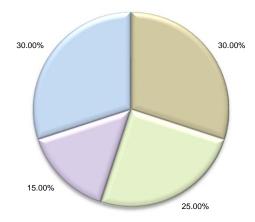


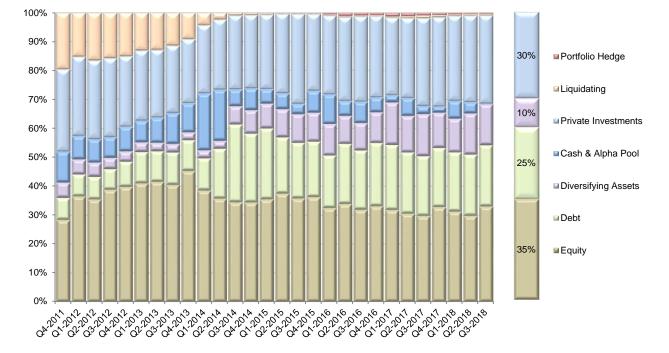
LTIF Asset Class Allocation: Actual vs. Target



Asset Class		Actual \$ Allocation	Total %	Target %	Target Range	
A3361 01835	Physical	Synthetic	Total	Allocation	Allocation	Target Kange
Equity	62,320,804	304,290,822	366,611,626	30.02%	30%	30% - 40%
Debt	265,633,206	0	265,633,206	21.75%	25%	20% - 30%
Diversifying Assets	128,356,652	46,235,169	174,591,820	14.30%	15%	5% - 15%
Cash & Alpha Pool	335,884,796	-313,623,309	22,261,487	1.82%	0%	0% - 10%
Private Investments	384,667,610	0	384,667,610	31.50%	30%	10% - 55%
Liquidating	6,533,055	0	6,533,055	0.53%	0%	
Portfolio Hedge	0	894,104	894,104	0.07%	0%	
Total	1,183,396,122	37,796,786	1,221,192,908	100%	100%	

Target Allocation





ITIF Asset Class Allocation: Actual vs. Target

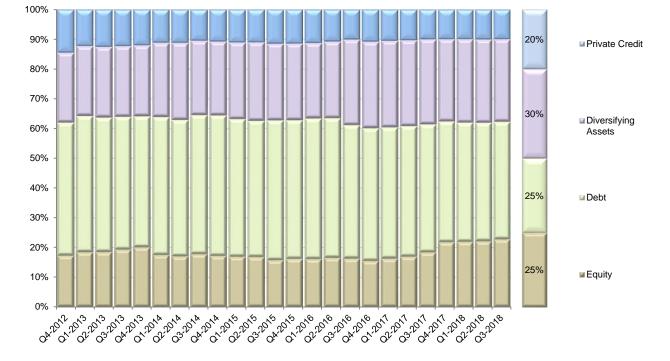
Actual Allocation

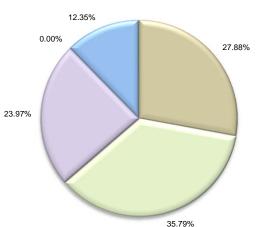
	Asset Class	Actual \$ Allocation	Total % Allocation	Target % Allocation	Target Range
	Equity	194,172,003	27.88%	25%	20% - 30%
8%	Debt	249,253,163	35.79%	25%	20% - 30%
	Diversifying Assets	166,942,711	23.97%	30%	25% - 35%
	Private Credit	0	0.00%	20%	15%-25%
	Cash	86,019,249	12.35%	0%	0%-15%
	Total	696,387,125	100%	100%	



25.00%

30.00%







LTIF Asset Class Performance: Actual vs. Policy

QTD Performance					Month						QTD			
0.00%	Cash & Alpha Pool	Cash & Alpha Pool	Asset Class	Physical Return	Synthetic Overlay	Alpha Pool + Cash	Total Return	Policy	Asset Class	Physical Return	Synthetic Overlay	Alpha Pool + Cash	Total Return	Policy
-0.30%	Private Investments	Equity	-9.63%	-8.92%	-0.11%	-9.38%	-7.47%	Equity	-9.63%	-8.92%	-0.11%	-9.38%	-7.47%	
	Debt	Debt	-0.83%			-0.83%	-1.12%	Debt	-0.83%			-0.83%	-1.12%	
-0.83%	Debt	Diversifying Assets	-0.07%	-3.33%	-0.11%	-0.98%	-3.11%	Diversifying Assets	-0.07%	-3.33%	-0.11%	-0.98%	-3.11%	
-0.98%	Diversifying Assets	Cash & Alpha Pool	0.00%			0.00%		Cash & Alpha Pool	0.00%			0.00%		
		Private Investments	-0.30%			-0.30%	0.00%	Private Investments	-0.30%			-0.30%	0.00%	
-9.38%	Equity	Portfolio Hedge Contri.				-0.24%		Portfolio Hedge Contri.				-0.24%		
-12.0% -10.0% -8.0% -6.0% -4.0% -2.0% 0.0	0%	Total	-1.21%	-8.13%	-0.11%	-3.51%	-2.99%	Total	-1.21%	-8.13%	-0.11%	-3.51%	-2.99%	

One Year Performance	One Year Performance			Ca	alendar Y	ſD			1 Year				
7.55%	Private Investments	Asset Class	Physical Return	Synthetic Overlay	Alpha Pool + Cash	Total Return	Policy	Asset Class	Physical Return	Synthetic Overlay	Alpha Pool + Cash	Total Return	Policy
6.66%	Debt	Equity	-5.35%	-5.58%	3.86%	-3.57%	-3.57%	Equity	-1.90%	-2.81%	4.86%	0.11%	-0.08%
	5.93% Diversifying Assets	Debt	6.23%			6.23%	-3.46%	Debt	6.66%			6.66%	-2.05%
5.93%		Diversifying Assets	5.59%	-6.04%	3.86%	3.32%	-4.30%	Diversifying Assets	8.36%	-4.66%	4.86%	5.93%	-3.53%
1.13%	Cash & Alpha Pool	Cash & Alpha Pool	1.02%			1.02%		Cash & Alpha Pool	1.13%			1.13%	
		Private Investments	4.56%			4.56%	10.05%	Private Investments	7.55%			7.55%	14.08%
0.11%	Equity	Portfolio Hedge Contri.				-0.18%		Portfolio Hedge Contri.				-0.26%	
0% 2% 4% 6% 8% 10	0%	Total	3.76%	-5.87%	3.86%	1.62%	0.40%	Total	5.82%	-3.40%	4.86%	3.95%	3.09%



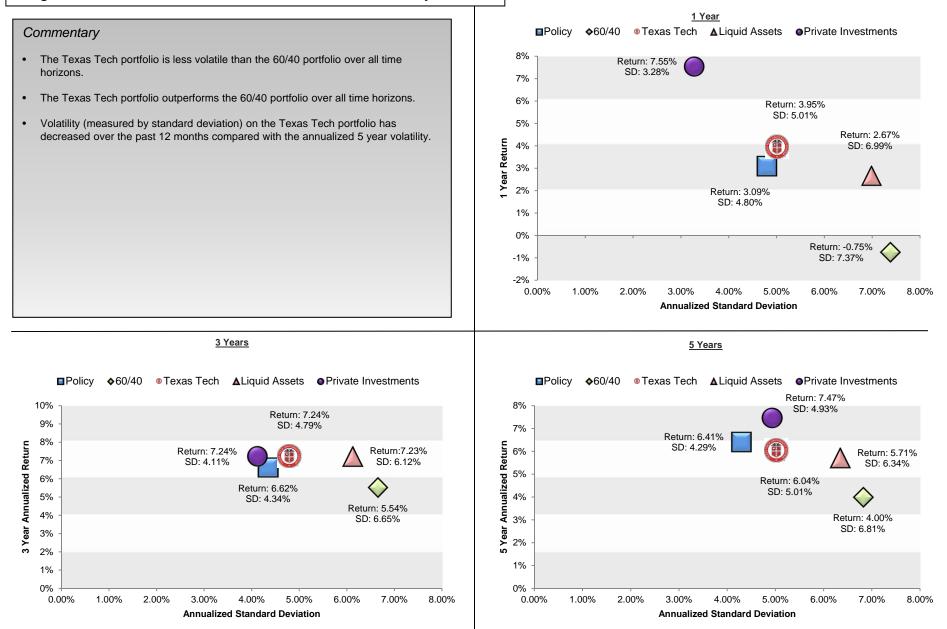
ITIF Asset Class Performance: Actual vs. Policy

QTD Performanc	e	Asset Class	Мо	nth	Asset Class	QTD	
-0.98%	Debt	Assel Glass	Total Return	Policy	ASSEL GIASS	Total Return	Policy
-1.43%	Diversifying Assets	Equity	-6.86%	-7.49%	Equity	-6.86%	-7.49%
-	Diversifying Assets	Debt	-0.98%	-1.24%	Debt	-0.98%	-1.24%
-6.86%	Equity	Diversifying Assets	-1.43%	-4.84%	Diversifying Assets	-1.43%	-4.84%
-10% -8% -6% -4% -2% 09	%	Total	-2.20%	-3.12%	Total	-2.20%	-3.12%

One Year Performa	ance	Asset Class	Calend	ar YTD	Accest Class	1 Year		
-0.19%	Equity		Total Return	Policy	Asset Class	Total Return	Policy	
-0.69%	Diversifying Assets	Equity	-2.63%	-3.96%	Equity	-0.19%	-0.52%	
-	Diversifying Assets	Debt	-2.06%	-2.85%	Debt	-1.50%	-1.95%	
-1.50%	Debt	Diversifying Assets	-2.40%	-2.70%	Diversifying Assets	-0.69%	-0.02%	
-2% -2% -1% -1% 0	%	Total	-1.79%	-2.48%	Total	-0.57%	-0.83%	



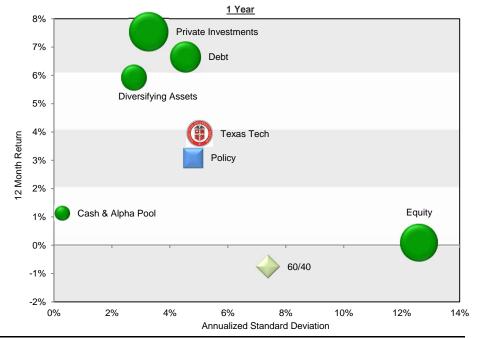
Long Term Risk/Return of Endowment vs. 60/40 Portfolio & Policy Returns

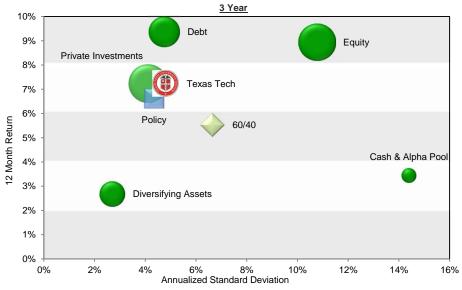


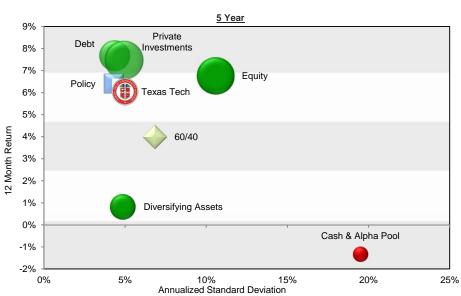
Risk Profile*

Commentary

- Diversifying Assets and Private Investments have provided the highest risk adjusted returns over the last 12 months
- Equity and Debt have generated the lowest risk adjusted returns over the last 12 months.







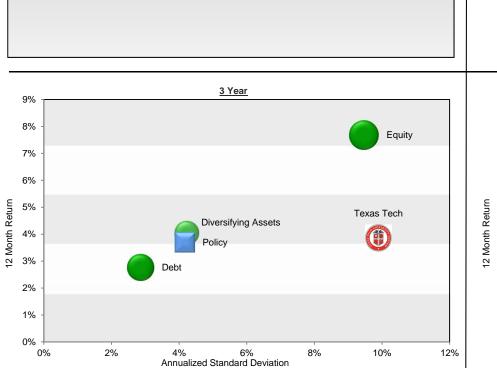
*Excluding Liquidating investments.

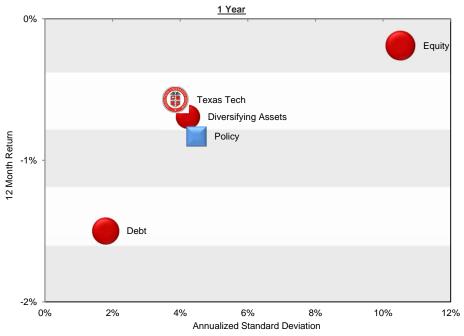
TEXAS TECH UNIVERSITY SYSTEM

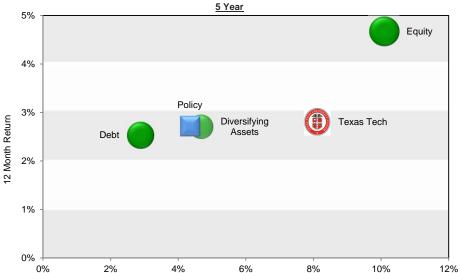
ITIF: Risk Profile

Commentary

• Equity has provided the highest risk adjusted returns, and debt has provided the lowest risk adjusted returns.







Annualized Standard Deviation

Appendix I – Sub-Asset Detail

Fund	Current Exposure	MTD Perf.	QTD Perf.	Calendar YTD	Fiscal YTD	Nacubo YTD	1 Year Perf.	3 Year Perf.	5 Year Perf.
TOTAL	1,221,192,908	-3.51%	-3.51%	1.62%	-2.85%	-1.25%	3.95%	7.24%	6.04%
Policy		-2.99%	-2.99%	0.40%	-2.57%	-1.41%	3.09%	6.62%	6.41%
Portfolio Hedge Contribution	894,104	-0.24%	-0.24%	-0.18%	-0.27%	-0.29%	-0.26%	n/a	n/a
Equity	366,611,626	-9.38%	-9.38%	-3.57%	-7.97%	-3.80%	0.11%	8.95%	6.77%
Equity Policy Benchmark (MSCI ACWI with USA Gross)		-7.47%	-7.47%	-3.57%	-7.03%	-3.40%	-0.08%	8.10%	6.31%
US Equity	141,704,947	-9.13%	-9.13%	1.47%	-7.67%	-0.07%	6.73%	14.33%	11.25%
Benchmark: S&P 500 Total Return		-6.84%	-6.84%	3.01%	-6.30%	0.35%	7.35%	11.52%	11.34%
Global Equity	61,405,092	-10.05%	-10.05%	-1.35%	-9.30%	-4.70%	-1.28%	7.44%	7.92%
Benchmark: MSCI ACWI with USA Gross		-7.47%	-7.47%	-3.57%	-7.03%	-3.40%	-0.08%	8.10%	6.31%
Non US Developed Equity	130,738,971	-9.70%	-9.70%	-7.83%	-7.69%	-6.83%	-6.62%	5.10%	2.85%
Benchmark: MSCI EAFE (Net)		-7.96%	-7.96%	-9.28%	-7.16%	-6.71%	-6.85%	3.62%	2.02%
Non US Emerging Markets Equity	31,906,071	-8.99%	-8.99%	-11.84%	-8.32%	-6.55%	-6.65%	12.72%	6.01%
Benchmark: MSCI EMF (Net)		-8.71%	-8.71%	-15.72%	-9.19%	-9.71%	-12.52%	6.52%	0.78%
Alternative Equity	856,545	0.00%	0.00%	5.81%	1.88%	4.41%	12.00%	11.64%	8.09%
Benchmark: MSCI ACWI with USA Gross		-7.47%	-7.47%	-3.57%	-7.03%	-3.40%	-0.08%	8.10%	6.31%
Debt	265,633,206	-0.83%	-0.83%	6.23%	-0.35%	-0.60%	6.66%	9.37%	7.67%
Debt Policy Benchmark (Barclays Global Agg)		-1.12%	-1.12%	-3.46%	-1.97%	-2.03%	-2.05%	1.52%	0.33%
Sovereign/Investment Grade Bonds	-	n/a	n/a	n/a	n/a	n/a	n/a	4.31%	3.80%
Benchmark: Barclays Global Aggregate		-1.12%	-1.12%	-3.46%	-1.97%	-2.03%	-2.05%	1.52%	0.33%
Credit	200,446,661	-0.51%	-0.51%	11.70%	-0.28%	0.94%	12.99%	11.30%	8.50%
Benchmark: Barclays Global Aggregate		-1.12%	-1.12%	-3.46%	-1.97%	-2.03%	-2.05%	1.52%	0.33%
Emerging Markets Debt	65,186,545	-1.81%	-1.81%	-9.01%	-0.56%	-5.25%	-10.41%	6.26%	5.55%
Benchmark: JP Morgan EM Bond Index		-2.23%	-2.23%	-5.61%	-0.50%	-0.40%	-5.27%	3.83%	3.61%
Diversifying Assets	174,591,820	-0.98%	-0.98%	3.32%	-1.58%	0.37%	5.93%	2.69%	0.82%
Benchmark: HFRXGL Index		-3.11%	-3.11%	-4.30%	-3.77%	-3.48%	-3.53%	2.74%	3.30%
Alpha Pool & Collateral	8,091,303	-0.12%	-0.12%	4.03%	0.90%	1.88%	5.06%	3.46%	-1.33%
Cash Collateral	41,981,225	0.00%	0.00%	1.01%	0.13%	0.43%	1.13%	0.55%	n/a
Collateral Held Elsewhere	33,360,969	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	n/a	n/a
Adjustments for Synthetic Exposure	(313,623,309)								
Alpha Pool	246,372,417	-0.15%	-0.15%	4.69%	1.12%	2.28%	5.94%	5.17%	4.56%
Benchmark: HFRI FOF Index		-3.04%	-3.04%	-2.13%	-3.27%	-2.84%	-1.25%	1.92%	2.27%
Cash	14,170,184	0.00%	0.00%	1.61%	0.61%	0.95%	1.75%	1.02%	0.62%
Liquidating	6,533,055	-1.18%	-1.18%	-17.80%	-11.47%	-11.59%	-28.70%	27.93%	20.33%
Private Investments	384,667,610	-0.30%	-0.30%	4.56%	0.68%	0.80%	7.55%	7.24%	7.47%
Benchmark: Private Market Composite		0.00%	2.85%	10.05%	2.01%	2.01%	14.08%	11.14%	12.58%
Private Equity	132,854,176	-0.19%	-0.19%	3.15%	-0.72%	-0.86%	5.74%	3.57%	6.43%
Private Credit	140,389,856	0.17%	0.17%	7.59%	1.35%	1.58%	9.94%	7.07%	7.11%
Private Diversifying Assets	111,423,578	-1.00%	-1.00%	3.22%	1.38%	1.67%	7.06%	9.98%	8.27%

Private Benchmark, as of 7/1/2018, is defined as the trailing 5 year return of 70% MIMUAWON Index, 15% LF98TRUU Index, 15% LG30TRUU Index, rolled quarterly, + 250bps p/a

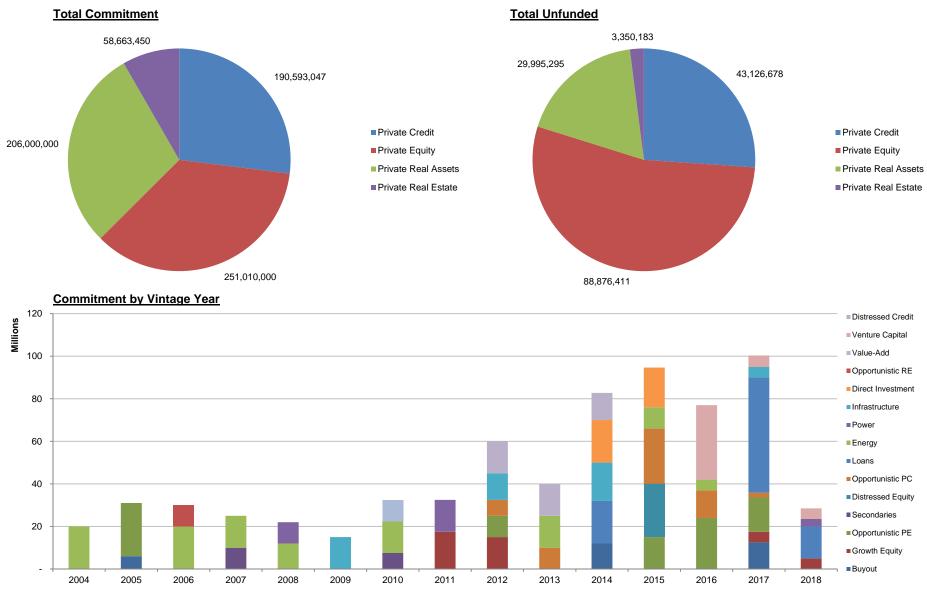


Appendix II – ITIF Sub-Asset Detail

Fund	Current Exposure	MTD Perf.	QTD Perf.	Calendar YTD	Fiscal YTD	Nacubo YTD	1 Year Perf.	3 Year Perf.	5 Year Perf.
TOTAL	696,387,125	-2.20%	-2.20%	-1.79%	-1.95%	-0.76%	-0.57%	3.86%	2.81%
Policy		-3.12%	-3.12%	-2.48%	-3.05%	-1.93%	-0.83%	3.71%	2.73%
Total Legacy Portfolio	535,367,877	-2.56%	-2.56%	-2.15%	-2.31%	-1.13%	-0.94%	3.73%	2.73%
Total Current Portfolio	75,000,000	0.00%	0.00%	n/a	n/a	n/a	n/a	n/a	n/a
Equity	194,172,003	-6.86%	-6.86%	-2.63%	-6.45%	-2.60%	-0.19%	7.69%	4.67%
Benchmark: MSCI ACWI		-7.49%	-7.49%	-3.96%	-7.09%	-3.54%	-0.52%	7.74%	6.15%
Legacy Equity	129,172,003	-7.46%	-7.46%	-3.25%	-7.05%	-3.23%	-0.83%	7.46%	4.54%
Current Equity	65,000,000	0.00%	0.00%	n/a	n/a	n/a	n/a	n/a	n/a
Debt	249,253,163	-0.98%	-0.98%	-2.06%	-0.88%	-0.37%	-1.50%	2.78%	2.54%
Benchmark: Fixed Income Composite		-1.24%	-1.24%	-2.85%	-1.30%	-1.23%	-1.95%	2.42%	1.55%
Legacy Debt	239,253,163	-0.98%	-0.98%	-2.07%	-0.88%	-0.37%	-1.50%	2.78%	2.54%
Current Debt	10,000,000	0.00%	0.00%	n/a	n/a	n/a	n/a	n/a	n/a
Diversifying Assets	166,942,711	-1.43%	-1.43%	-2.40%	-1.09%	-0.90%	-0.69%	4.05%	2.71%
Benchmark: 60% MSCI World (Net) / 40% CITI WGBI		-4.84%	-4.84%	-2.70%	-4.91%	-2.65%	-0.02%	5.36%	4.09%
Cash	86,019,249	0.00%	n/a	n/a	n/a	n/a	n/a	n/a	n/a



Appendix III - Private Markets Report (as of October 2018) - Total Commitment



Data provided by Texas Tech University System

Reported valuations use latest available statements ranging from June 2018 to October 2018 Adjusted Valuations include all cashflows through October 2018



Appendix III - Private Markets Report (as of October 2018) - Performance Analysis by Asset Class & Strategy Type

Performance by Asset Class

Asset Clas	s # of Funds	Commitment	Funded	Paid-In Capital	Distributions	% Drawn	Reported Valuation	Adjusted Valuation	IRR	ΤΥΡΙ
Private Equity	21	\$251,010,000	\$162,949,857	\$169,496,261	\$68,313,559	68%	\$130,166,934	\$131,635,802	5.23%	1.18
Private Credit	16	\$190,593,047	\$151,718,712	\$156,779,175	\$55,397,361	82%	\$125,968,751	\$129,666,498	6.98%	1.18
Private Real Assets	16	\$206,000,000	\$177,942,780	\$194,030,915	\$194,000,254	94%	\$74,251,613	\$73,907,539	14.45%	1.39
Private Real Estate	4	\$58,663,450	\$57,264,491	\$59,248,622	\$23,302,068	101%	\$46,098,361	\$42,804,980	2.74%	1.12
Total	57	\$706,266,497	\$549,875,840	\$579,554,973	\$341,013,242	82%	\$376,485,659	\$378,014,819	8.27%	1.24

Performance by Strategy Type

Asset Class	Strategy	# of Funds	Commitment	Funded	Paid-In Capital	Distributions	% Drawn	Reported Valuation	Adjusted Valuation	IRR	TVPI
Private Equity	Buyout	3	\$30,500,000	\$24,792,185	\$25,795,189	\$9,311,417	85%	\$21,099,262	\$21,099,262	7.32%	1.18
	Distressed Equity	1	\$25,000,000	\$5,649,992	\$5,774,992	\$1,162,372	23%	\$7,329,325	\$7,329,325	21.38%	1.47
	Growth Equity	4	\$42,500,000	\$27,920,421	\$31,564,290	\$8,640,822	74%	\$29,391,240	\$28,800,074	5.86%	1.19
	Opportunistic PE	7	\$90,110,000	\$69,254,416	\$69,919,177	\$34,929,362	78%	\$48,336,532	\$48,127,697	4.60%	1.19
	Secondaries	2	\$17,500,000	\$16,406,432	\$17,125,577	\$14,167,278	98%	\$5,509,296	\$5,286,463	2.76%	1.14
	Venture Capital	4	\$45,400,000	\$18,926,411	\$19,317,036	\$102,308	43%	\$18,501,279	\$20,992,981	7.84%	1.09
	Total	21	\$251,010,000	\$162,949,857	\$169,496,261	\$68,313,559	68%	\$130,166,934	\$131,635,802	5.23%	1.18
Private Credit	Distressed Credit	3	\$42,750,000	\$40,119,345	\$40,248,413	\$26,805,780	94%	\$22,866,633	\$22,866,633	5.85%	1.23
	Loans	7	\$89,075,000	\$59,034,176	\$59,740,204	\$12,997,077	67%	\$61,357,601	\$60,687,368	11.09%	1.23
	Opportunistic PC	6	\$58,768,047	\$52,565,191	\$56,790,558	\$15,594,504	97%	\$41,744,517	\$46,112,497	4.26%	1.09
	Total	16	\$190,593,047	\$151,718,712	\$156,779,175	\$55,397,361	82%	\$125,968,751	\$129,666,498	6.98%	1.18
	Energy	8	\$112,000,000	\$108,353,188	\$114,574,209	\$124,143,824	102%	\$31,728,992	\$31,409,918	14.03%	1.38
	Infrastructure	4	\$50,500,000	\$41,248,820	\$50,177,642	\$58,009,959	99%	\$23,066,855	\$23,041,855	29.12%	1.62
Private Real Assets	Power	3	\$28,500,000	\$25,408,008	\$26,323,136	\$11,722,211	92%	\$16,480,779	\$16,480,779	1.90%	1.07
	Opportunistic RA	1	\$15,000,000	\$2,932,764	\$2,955,928	\$124,260	20%	\$2,974,987	\$2,974,987	0.00%	0.00
	Total	16	\$206,000,000	\$177,942,780	\$194,030,915	\$194,000,254	94%	\$74,251,613	\$73,907,539	14.45%	1.39
Private Real Estate	Direct Investment	2	\$38,663,450	\$39,709,817	\$41,637,448	\$15,175,796	108%	\$35,623,508	\$33,165,127	5.75%	1.16
	Opportunistic RE	1	\$10,000,000	\$10,000,000	\$10,000,000	\$0	100%	\$3,577,061	\$3,577,061	-10.94%	0.36
	Value-Add	1	\$10,000,000	\$7,554,674	\$7,611,174	\$8,126,272	76%	\$6,897,792	\$6,062,792	12.33%	1.86
	Total	4	\$58,663,450	\$57,264,491	\$59,248,622	\$23,302,068	101%	\$46,098,361	\$42,804,980	2.74%	1.12

<u>Appendix IV – Glossary</u>

Major Asset Classes

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<u>Alpha Pool:</u> 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

Liquidating: 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