

LEGACY FUND
INVESTMENT PERFORMANCE REPORT AS OF JULY 31, 2019

	July-19					Current FYTD		Prior Year FY19		3 Years Ended 6/30/2019		5 Years Ended 6/30/2019	
	Market Value	Allocation		Month		Returns		Returns		Gross ⁽¹⁾ Net		Gross ⁽¹⁾ Net	
		Actual	Policy	Gross ⁽¹⁾	Net	Gross ⁽¹⁾	Net	Gross ⁽¹⁾	Net	Gross ⁽¹⁾	Net	Gross ⁽¹⁾	Net
TOTAL LEGACY FUND	6,210,543,902	100.0%	100.0%	0.40%	0.37%	0.40%	0.37%	5.18%	4.98%	8.38%	8.15%	5.96%	5.72%
<i>POLICY TARGET BENCHMARK</i>				0.68%	0.68%	0.68%	0.68%	6.12%	6.12%	7.50%	7.50%	5.18%	5.18%
ATtribution ANALYSIS													
Asset Allocation				-0.02%	-0.02%	-0.02%	-0.02%	-0.29%	-0.29%	-0.13%	-0.13%	-0.15%	-0.15%
Manager Selection				-0.27%	-0.30%	-0.27%	-0.30%	-0.65%	-0.85%	1.01%	0.78%	0.93%	0.70%
TOTAL RELATIVE RETURN				-0.29%	-0.31%	-0.29%	-0.31%	-0.94%	-1.14%	0.88%	0.65%	0.78%	0.55%
GLOBAL EQUITY	3,104,530,860	50.0%	50.0%	0.44%	0.40%	0.44%	0.40%	2.10%	1.89%				
<i>Benchmark</i>				0.29%	0.29%	0.29%	0.29%	4.39%	4.39%				
<i>Domestic - broad Benchmark</i>	1,877,012,715	30.2%	30.0%	1.48%	1.45%	1.48%	1.45%	4.67%	4.51%				
				1.29%	1.29%	1.29%	1.29%	6.36%	6.36%				
LARGE CAP DOMESTIC EQUITY													
LA Capital Large Cap Growth	416,789,431	6.7%	6.6%	2.13%	2.13%	2.13%	2.13%	11.71%	11.48%	15.47%	15.24%	12.72%	12.49%
<i>Russell 1000 Growth</i>				2.26%	2.26%	2.26%	2.26%	11.56%	11.56%	18.07%	18.07%	13.39%	13.39%
LSV Large Cap Value	412,975,333	6.6%	6.6%	0.98%	0.90%	0.98%	0.90%	1.92%	1.64%	11.20%	10.89%	7.44%	7.14%
<i>Russell 1000 Value</i>				0.83%	0.83%	0.83%	0.83%	8.46%	8.46%	10.19%	10.19%	7.46%	7.46%
LA Capital 60% Large Cap/40% Large Cap Active Extension	275,621,842	4.4%	4.4%	1.69%	1.69%	1.69%	1.69%	10.56%	10.42%	12.77%	12.62%	10.47%	10.32%
<i>Russell 1000</i>				1.55%	1.55%	1.55%	1.55%	10.02%	10.02%	14.15%	14.15%	10.45%	10.45%
Clifton Group Enhanced S&P 500	275,031,081	4.4%	4.4%	1.60%	1.60%	1.60%	1.60%	10.60%	10.60%	13.97%	13.91%	10.87%	10.80%
<i>S&P 500</i>				1.44%	1.44%	1.44%	1.44%	10.42%	10.42%	14.19%	14.19%	10.71%	10.71%
TOTAL LARGE CAP DOMESTIC EQUITY	1,380,417,687	22.2%	22.0%	1.62%	1.60%	1.62%	1.60%	8.30%	8.12%	13.40%	13.19%	10.33%	10.12%
<i>Russell 1000</i>				1.55%	1.55%	1.55%	1.55%	10.02%	10.02%	14.15%	14.15%	10.45%	10.45%
SMALL CAP DOMESTIC EQUITY													
PIMCO - Research Affiliates Equity US Small	244,817,381	3.9%	4.0%	1.16%	1.10%	1.16%	1.10%	-6.59%	-6.81%	9.89%	9.63%	6.10%	5.83%
Clifton Group Enhanced Russell 2000	251,777,648	4.1%	4.0%	0.89%	0.89%	0.89%	0.89%	-3.12%	-3.12%	12.52%	12.30%	7.86%	7.58%
TOTAL SMALL CAP DOMESTIC EQUITY	496,595,028	8.0%	8.0%	1.03%	1.00%	1.03%	1.00%	-4.83%	-4.94%	11.29%	11.04%	7.12%	6.84%
<i>Russell 2000</i>				0.58%	0.58%	0.58%	0.58%	-3.31%	-3.31%	12.30%	12.30%	7.06%	7.06%
INTERNATIONAL EQUITY													
LSV International Large Cap Value	475,257,463	7.7%	8.0%	-1.86%	-1.95%	-1.86%	-1.95%	-4.30%	-4.66%	8.55%	8.14%	1.96%	1.57%
<i>MSCI EAFE</i>				-1.27%	-1.27%	-1.27%	-1.27%	1.08%	1.08%	9.11%	9.11%	2.25%	2.25%
William Blair International Leaders	517,826,225	8.3%	8.0%	-0.17%	-0.27%	-0.17%	-0.27%	5.65%	5.26%	13.63%	13.23%	N/A	N/A
<i>MSCI ACWI ex-US IMI (Net)</i>				-1.14%	-1.14%	-1.14%	-1.14%	0.26%	0.26%	9.17%	9.17%		
DFA International Small Cap Value (1)	114,782,462	1.8%	2.0%	-1.56%	-1.56%	-1.56%	-1.56%	-11.54%	-11.54%	6.29%	6.29%	1.05%	1.05%
Vanguard International Explorer Fund (1)	119,651,995	1.9%	2.0%	-2.13%	-2.13%	-2.13%	-2.13%	-11.72%	-11.72%	7.60%	7.60%	3.05%	3.05%
<i>S&P/Citigroup BMI EPAC < \$2BN</i>				-1.47%	-1.47%	-1.47%	-1.47%	-9.91%	-9.91%	6.36%	6.36%	3.29%	3.29%
TOTAL INTERNATIONAL EQUITY	1,227,518,144	19.8%	20.0%	#####	#####	-1.13%	-1.20%	-1.73%	-2.02%	10.37%	10.05%	3.33%	3.02%
<i>MSCI World Ex US (2)</i>				-1.21%	-1.21%	-1.21%	-1.21%	1.29%	1.29%	9.01%	9.01%	2.19%	2.19%

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	Market Value	Allocation		Month		Returns		Returns		Gross ⁽¹⁾	Net	Gross ⁽¹⁾	Net
		Actual	Policy	Gross ⁽¹⁾	Net	Gross ⁽¹⁾	Net	Gross ⁽¹⁾	Net				
GLOBAL FIXED INCOME	2,141,638,639	34.5%	35.0%	0.42%	0.41%	0.42%	0.41%	9.11%	8.99%				
Benchmark				1.26%	1.26%	1.26%	1.26%	7.87%	7.87%				
FIXED INCOME													
Western Asset U.S. Core Fixed Income	618,441,096	10.0%	10.0%	0.60%	0.57%	0.60%	0.57%	9.21%	9.08%	3.99%	3.86%	4.23%	4.09%
Prudential Core Plus Fixed Income	664,184,210	10.7%	10.0%	0.44%	0.44%	0.44%	0.44%	9.54%	9.32%	4.50%	4.25%	4.62%	4.36%
PIMCO Distressed Senior Credit Opportunities II (1)	41,497,745	0.7%	0.7%	0.45%	0.45%	0.45%	0.45%	5.90%	5.90%	10.90%	10.90%	8.24%	8.24%
PIMCO BRAVO II (1)	14,005,199	0.2%	0.2%	0.00%	0.00%	0.00%	0.00%	3.10%	3.10%	5.96%	5.96%	7.04%	7.04%
Bloomberg Aggregate				1.26%	1.26%	1.26%	1.26%	7.87%	7.87%	2.31%	2.31%	2.9%	2.9%
Declaration Total Return Bond Fund (1)	165,551,084	2.7%	2.7%	0.26%	0.26%	0.26%	0.26%	6.47%	6.47%	4.93%	4.93%	4.18%	4.18%
3m LIBOR				0.19%	0.19%	0.19%	0.19%	2.61%	2.61%	1.78%	1.78%	1.21%	1.21%
State Street U.S. Govt Credit Bond Index	301,351,904	4.9%	4.9%	0.15%	0.15%	0.15%	0.15%	8.57%	8.55%	2.43%	2.40%	3.12%	3.09%
Bloomberg Gov/Credit				1.48%	1.48%	1.48%	1.48%	8.52%	8.52%	2.41%	2.41%	3.11%	3.11%
Wells Capital Medium Quality Credit	173,561,528	2.8%	3.9%	0.73%	0.68%	0.73%	0.68%	11.74%	11.57%	5.51%	5.34%	4.92%	4.75%
Bloomberg Credit Baa				2.68%	2.68%	2.68%	2.68%	11.39%	11.39%	4.67%	4.67%	4.18%	4.18%
Ares ND Credit Strategies	67,136,433	1.1%	1.1%	0.00%	0.00%	0.00%	0.00%	8.03%	8.03%	N/A	N/A	N/A	N/A
Cerberus ND Private Credit Fund	60,926,193	1.0%	1.0%	0.00%	0.00%	0.00%	0.00%	8.89%	8.89%	N/A	N/A	N/A	N/A
S&P LSTA Leveraged Loan B Index				0.84%	0.84%	0.84%	0.84%	4.22%	4.22%				
Bank of ND Match Loan CDs	34,983,248	0.6%	0.6%	0.30%	0.30%	0.30%	0.30%	3.55%	3.55%	N/A	N/A	N/A	N/A
TOTAL FIXED INCOME	2,141,638,639	34.5%	35.0%	0.42%	0.41%	0.42%	0.41%	9.11%	8.99%	4.62%	4.50%	4.50%	4.37%
Bloomberg Aggregate				1.26%	1.26%	1.26%	1.26%	7.87%	7.87%	2.31%	2.31%	2.95%	2.95%
GLOBAL REAL ASSETS	909,690,162	14.6%	15.0%	0.22%	0.20%	0.22%	0.20%	5.48%	5.14%				
Benchmark				0.63%	0.63%	0.63%	0.63%	5.02%	5.02%				
DIVERSIFIED REAL ASSETS													
Western Asset Global Inflation Linked Plus, L.L.C.	398,892,861	6.4%	6.6%	0.50%	0.47%	0.50%	0.47%	3.78%	3.66%	2.43%	2.31%	1.41%	1.28%
Bloomberg US Gov't Inflation Linked Bond Index (4)				0.81%	0.81%	0.81%	0.81%	4.61%	4.61%	2.93%	2.93%	1.38%	1.38%
Grosvenor Customized Infrastructure Strategies II (1)	44,613,435	0.7%	0.7%	-0.19%	-0.19%	-0.19%	-0.19%	16.38%	16.38%	9.08%	9.08%	N/A	N/A
JP Morgan Infrastructure Investments Fund (IIF)	119,092,377	1.9%	1.9%	0.00%	0.00%	0.00%	0.00%	7.56%	6.86%	8.36%	7.67%	N/A	N/A
ISQ Global Infrastructure Fund II (1)	20,599,874	0.3%	0.3%	0.00%	0.00%	0.00%	0.00%	3.39%	3.39%	N/A	N/A	N/A	N/A
Macquarie Infrastructure Partners IV	29,273,611	0.5%	0.5%	0.00%	0.00%	0.00%	0.00%	N/A	N/A	N/A	N/A	N/A	N/A
50% NCREIF ODCE/50% CPI-U (lagged one quarter) (3)				0.47%	0.47%	0.47%	0.47%	3.91%	3.91%	2.83%	2.83%		
TOTAL DIVERSIFIED REAL ASSETS	612,472,158	9.9%	10.0%	0.32%	0.30%	0.32%	0.30%	5.33%	5.11%	4.11%	3.87%	2.74%	2.51%
Benchmark				0.69%	0.69%	0.69%	0.69%	4.28%	4.28%	2.86%	2.86%	1.37%	1.37%
REAL ESTATE													
J.P. Morgan U.S. Real Estate Income and Growth Domestic, LP	150,970,316	2.4%	2.5%	0.00%	0.00%	0.00%	0.00%	4.17%	3.40%	6.85%	6.04%	9.42%	8.47%
Invesco Core Real Estate-USA, LP	146,247,688	2.4%	2.5%	0.00%	0.00%	0.00%	0.00%	7.05%	6.69%	7.95%	7.58%	10.19%	9.81%
TOTAL REAL ESTATE	297,218,004	4.8%	5.0%	0.00%	0.00%	0.00%	0.00%	5.57%	4.99%	7.39%	6.79%	9.75%	9.08%
NCREIF Total Index				0.50%	0.50%	0.50%	0.50%	6.51%	6.51%	6.89%	6.89%	8.83%	8.83%

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		Actual	Policy	Gross ⁽¹⁾	Net	Gross ⁽¹⁾	Net						
CASH EQUIVALENTS													
Northern Trust-MFB NI Gov't Assets Portfolio (1)	23,784,887			0.17%	0.17%	0.17%	0.17%	2.09%	2.09%	1.16%	1.16%	0.72%	0.72%
Bank of ND	30,899,354			0.20%	0.20%	0.20%	0.20%	2.28%	2.28%	N/A	N/A	N/A	N/A
TOTAL CASH EQUIVALENTS	54,684,240	0.9%	0.0%	0.19%	0.19%	0.19%	0.19%	2.16%	2.16%	1.27%	1.27%	0.78%	0.78%
90 Day T-Bill				0.22%	0.22%	0.22%	0.22%	2.31%	2.31%	1.38%	1.38%	0.87%	0.87%

Initial funding September 7, 2011.

NOTE: Monthly returns and market values are preliminary and subject to change.

(1) All limited partnership-type (and mutual funds as of 7/1/14) investment returns will only be reported net of fees, which is standard practice by the investment consultant.

(2) This benchmark was changed to the MSCI World ex-US as of July 1, 2016 and the MSCI EAFE (unhedged) as of April 1, 2011.

(3) Prior to July 1, 2018, the benchmark was CPI-W.

(4) Prior to November 1, 2018, the benchmark was Bloomberg Global Inflation Linked Index.