



MARYLAND
STATE RETIREMENT
and PENSION SYSTEM

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March 26, 2019

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Chair, Budget & Taxation Committee
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Annapolis, MD 21401

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House Office Building, Room 121
6 Bladen Street
Annapolis, MD 21401

Honorable Benjamin S. Barnes
House Chair, Joint Committee on Pensions
House Office Building, Room 151
6 Bladen Street
Annapolis, MD 21401

Dear Committee and Subcommittee Chairs:

In accordance with Chapter 728, Acts of 2018 (SB 899) and Chapter 727, Acts of 2018 (HB 1012) codified at SPP § 21-122(f)(4) of the Annotated Code of Maryland, I am submitting the required report on system investment returns for the preceding fiscal quarter, including:

- (i) Investment performance by asset class, including performance relative to asset class benchmarks; and
- (ii) Investment performance of assets under the direction of each Investment Division employee.

The report designation is MSAR 11742. The following exhibits are attached in response to this requirement:

- Exhibit A – Summary of Plan Performance by Asset Class
- Exhibit B – Expanded Performance Report by Manager and Asset Class
- Exhibit C – Investment Division Organizational Chart by Asset Class

Should you require additional information, please call me at (410) 625-5600.

Sincerely,

R. Dean Kenderdine
Secretary to the Board

RDK/rmb

cc: The Honorable Thomas V. Mike Miller, Jr.
The Honorable Michael E. Busch
Victoria Gruber
Board of Trustees

EXHIBIT A



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
TOTAL PLAN	49,997,077,941	100.0	-2.12	-4.35	-1.63	-2.63	-1.63	6.23	4.87	8.16	7.85	07/01/86
TOTAL PLAN POLICY INDEX ^[1]			-2.14	-4.55	-2.44	-2.83	-2.44	6.38	4.44	7.58		07/01/86
<i>Excess</i>			<i>0.03</i>	<i>0.20</i>	<i>0.80</i>	<i>0.21</i>	<i>0.80</i>	<i>-0.14</i>	<i>0.42</i>	<i>0.58</i>		
TOTAL GROWTH EQUITY	24,575,474,783	49.2	-4.70	-8.28	-3.74	-5.20	-3.74	8.47	6.69	10.97	5.66	01/01/98
GROWTH EQUITY CUSTOM BENCHMARK ^[2]			-4.81	-8.11	-4.37	-5.04	-4.37	8.68				01/01/98
<i>Excess</i>			<i>0.11</i>	<i>-0.16</i>	<i>0.63</i>	<i>-0.16</i>	<i>0.63</i>	<i>-0.21</i>				
TOTAL RATE SENSITIVE	9,793,252,627	19.6	2.69	1.72	-1.49	0.56	-1.49	2.76	2.69	4.87	6.82	07/01/86
CUSTOM RATE SENSITIVE BENCHMARK ^[3]			3.40	2.35	-1.40	0.74	-1.40	2.61	2.58	3.68		07/01/86
<i>Excess</i>			<i>-0.71</i>	<i>-0.64</i>	<i>-0.09</i>	<i>-0.19</i>	<i>-0.09</i>	<i>0.14</i>	<i>0.11</i>	<i>1.19</i>		
TOTAL CREDIT/DEBIT STRATEGIES	3,872,876,684	7.7	-1.07	-1.63	-1.42	-0.27	-1.42	5.56	3.88		8.72	03/01/09
MSRA CUSTOM CREDIT BENCHMARK ^[4]			-1.44	-3.18	-1.96	-1.30	-1.96	6.69	3.10		7.39	03/01/09
<i>Excess</i>			<i>0.37</i>	<i>1.54</i>	<i>0.54</i>	<i>1.03</i>	<i>0.54</i>	<i>-1.14</i>	<i>0.78</i>		<i>1.33</i>	
TOTAL REAL ASSETS	6,593,644,103	13.2	-1.09	-1.07	4.38	-0.28	4.38	5.72	2.36	4.73	4.02	02/01/06
CUSTOM REAL ASSETS BENCHMARK ^[5]			-1.54	-3.12	1.57	-1.73	1.57	6.67	2.48	3.45	3.13	02/01/06
<i>Excess</i>			<i>0.45</i>	<i>2.05</i>	<i>2.81</i>	<i>1.45</i>	<i>2.81</i>	<i>-0.96</i>	<i>-0.12</i>	<i>1.28</i>	<i>0.88</i>	
TOTAL ABSOLUTE RETURN	4,036,406,526	8.1	0.38	-0.77	1.75	0.47	1.75	2.44	1.63	3.64	3.12	04/01/08
CUSTOM ABSOLUTE RETURN BENCHMARK ^[6]			-0.79	-2.99	0.13	-1.98	0.13	2.71	2.25	3.55	1.40	04/01/08
<i>Excess</i>			<i>1.18</i>	<i>2.22</i>	<i>1.61</i>	<i>2.46</i>	<i>1.61</i>	<i>-0.27</i>	<i>-0.63</i>	<i>0.08</i>	<i>1.72</i>	
TOTAL MULTI ASSET	716,640,943	1.4	-2.87	-6.29		-5.66					-5.66	07/01/18
TOTAL PLAN POLICY INDEX ^[1]			-2.14	-4.55		-2.83					-2.83	07/01/18
<i>Excess</i>			<i>-0.73</i>	<i>-1.74</i>		<i>-2.82</i>					<i>-2.82</i>	



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
TOTAL CASH	408,782,276	0.8	1.77	2.38	6.33	3.50	6.33	6.58	4.57	3.60	3.68	07/01/08
FTSE 3 MONTH T-BILL			0.20	0.57	1.86	1.07	1.86	0.99	0.60	0.35	0.40	07/01/08
<i>Excess</i>			<i>1.57</i>	<i>1.82</i>	<i>4.47</i>	<i>2.43</i>	<i>4.47</i>	<i>5.59</i>	<i>3.97</i>	<i>3.25</i>	<i>3.28</i>	

ENDNOTES

- [1] Since 07/01/2008: Calculated monthly using transitional weights and asset class benchmarks. Prior to 07/01/2008: MSRA TOTAL PLAN STATIC POLICY.
- [2] Benchmark is a dynamic blend of the Public Equity Benchmark and the State Street Private Equity Index based off of sub-asset class weights used in the policy benchmark.
- [3] Since 10/01/2017: 53% Barclays Long-Term Government, 13% Barclays Securitized, 13% Barclays Corporate, 21% Barclays U.S. TIPS
From 07/01/2016 to 09/30/2017: 48% Barclays Long-Term Government, 14% Barclays Securitized, 14% Barclays Corporate, 24% Barclays U.S. TIPS
From 11/01/2015 to 06/30/2016: 50% Barclays Long-Term Government, 15% Barclays Securitized, 15% Barclays Corporate, 20% Barclays U.S. TIPS
From 07/01/2013 to 10/31/2015: 80% BC Aggregate Intermediate, 20% BC Global Aggregate 1-10 Year Hedged
From 07/01/2010 to 06/30/2013: 80% BC Aggregate, 20% BC Global Bond Aggregate Hedged
From 01/01/2010 to 06/30/2010: 80% BC Aggregate, 20% BC Global Bond Aggregate Unhedged
From 07/01/2009 to 12/31/2009: Benchmark is dynamically calculated using Beginning Market Value weights of the underlying portfolios and their benchmarks
Prior to 07/01/2009: Benchmark is BC US Universal.
Formerly named "Custom Fixed Income Benchmark" prior to 11/01/2015.
- [4] Since 10/01/2017: 78% US Credit Benchmark, 22% non-U.S Credit Benchmark.
From 01/01/2016 to 09/30/2017: 67% US Credit Benchmark, 33% non-U.S Credit Benchmark.
From 11/01/2015 to 12/31/2015: 75% US Credit Benchmark, 25% non-U.S Credit Benchmark.
From 07/01/2013 to 10/31/2015: 50% BC High Yield / 20% BC Credit / 20% JP Morgan GBI EM Global Diversified/ 10% S&P/LSTA Leveraged Loan Index
From 01/01/2010 to 06/30/2013: 50% BC Credit / 50% BC High Yield
Prior to 01/01/2010: 75% BC Credit / 25% BC High Yield
- [5] Since 10/01/2017: Benchmark is dynamically calculated using the beginning market values of the Real Estate and Natural Resource/Infrastructure sub-asset classes and their corresponding benchmarks.
From 11/01/2015 to 09/30/2017: Benchmark is dynamically calculated using the beginning market values of the Real Estate, Commodities and Natural Resource/Infrastructure sub-asset classes and their corresponding benchmarks.
From 12/01/2012 to 10/31/2015: 30% - DJ UBS Commodities Index (Total Return), 10% - CPI + 5%; 8% Max , 60% - 50% BC US TIPS Index/50% BC World Inflat-Linked Bond Index
From 07/01/2011 to 11/30/2012: 30% - DJ UBS Commodities Index (Total Return), 10% - CPI + 5%; 8% Max , 60% - 65% BC US TIPS Index/35% BC Global Inflation Linked (USD Hedged) Index
From 07/01/2009 to 06/30/2011: 20% - DJ UBS Commodities Index (Total Return), 20% - CPI + 5%; 8% Max , 60% - 65% BC US TIPS Index/35% BC Global Inflation Linked (USD Hedged) Index
07/01/2008 to 06/30/2009: Benchmark is dynamically calculated using Beginning Market Value weights of the underlying portfolios and their benchmarks Prior to 07/01/2008: 100% Barclays US TIPS Index
Prior to 07/01/2008: 100% Barclays US TIPS Index
Formerly named "Custom Real Return Benchmark" prior to 11/01/2015.
- [6] Since 11/01/2015: HFRI Fund of Funds Conservative + 100 bps.
From 07/01/2014 to 10/31/2015: HFRI FOF: Conservative Index.
From 07/01/2008 to 06/30/2014 benchmark was HFRI Fund of Funds index.
Prior to 07/01/2008 benchmark was the Citigroup 3-Month T-bill + 500 bps.

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EXHIBIT B



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
GROWTH EQUITY												
U.S. EQUITY												
RHUMBLINE RUSSELL 1000	2,650,921,888	5.3	-9.08	-13.79	-4.71	-7.40	-4.71	9.08	8.21		11.99	11/01/12
Russell 1000			-9.11	-13.82	-4.78	-7.42	-4.78	9.09	8.21		12.00	11/01/12
<i>Excess</i>			0.02	0.03	0.07	0.02	0.07	-0.01	0.00		-0.01	
RHUMBLINE S&P 600 INDEX	410,989,443	0.8	-12.04	-20.06	-8.47	-16.30	-8.47				1.33	03/01/17
S&P SMALLCAP 600			-12.07	-20.10	-8.48	-16.34	-8.48				1.31	03/01/17
<i>Excess</i>			0.04	0.04	0.01	0.03	0.01				0.02	
TOTAL US EQUITY PASSIVE	3,061,911,335	6.1	-9.49	-14.69	-5.21	-8.71	-5.21	8.86			7.87	11/01/15
D.E. SHAW ALL CAP CORE ENHANCED	830,454,661	1.7	-8.80	-14.26	-4.84	-7.76	-4.84	9.69	8.51		10.84	04/01/13
D.E. Shaw All Cap Custom Benchmark ^[1]			-9.11	-13.82	-4.78	-7.42	-4.78	9.29	8.10		10.49	04/01/13
<i>Excess</i>			0.30	-0.44	-0.06	-0.34	-0.06	0.40	0.41		0.35	
T. ROWE PRICE ENHANCED	776,629,256	1.6	-9.17	-13.63	-4.16	-7.46	-4.16	9.55	8.86	13.58	8.09	05/01/06
S&P 500			-9.03	-13.52	-4.38	-6.85	-4.38	9.26	8.49	13.12	7.50	05/01/06
<i>Excess</i>			-0.14	-0.11	0.23	-0.60	0.23	0.30	0.37	0.46	0.59	
RHUMBLINE US SCIENTIFIC BETA	737,422,577	1.5	-9.35	-13.25	-6.41	-8.59	-6.41				5.60	01/01/17
SciBeta USA Multi-Beta MStrat 4F-EW TR			-9.37	-13.27	-6.36	-8.59	-6.36				5.72	01/01/17
<i>Excess</i>			0.02	0.02	-0.04	0.00	-0.04				-0.13	
TOTAL U.S. EQUITY ACTIVE	2,344,506,493	4.7	-9.10	-13.74	-5.12	-7.92	-5.12	8.74	7.81	12.53		06/01/94
ACTIVE US EQ BM ^[2]			-9.16	-13.55	-5.15	-7.60	-5.15	8.69	8.04	12.96		06/01/94
<i>Excess</i>			0.07	-0.19	0.04	-0.32	0.04	0.06	-0.22	-0.43		

SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
CAPITAL PROSPECTS US SMALL CAP (TM)	327,900,032	0.7	-12.29	-20.89	-11.91	-17.86	-11.91				0.28	04/01/17
S&P 600 Small Cap USD NET			-12.13	-20.20	-8.87	-16.52	-8.87				1.02	04/01/17
<i>Excess</i>			<i>-0.17</i>	<i>-0.69</i>	<i>-3.04</i>	<i>-1.34</i>	<i>-3.04</i>				<i>-0.74</i>	
ACUITAS US MICRO CAP (TM)	89,067,881	0.2	-10.82	-18.36	-14.76	-18.79	-14.76				-5.45	02/01/17
RUSSELL MICROCAP INDEX (DAILY)			-12.05	-22.14	-13.08	-21.49	-13.08				-0.07	02/01/17
<i>Excess</i>			<i>1.23</i>	<i>3.78</i>	<i>-1.68</i>	<i>2.70</i>	<i>-1.68</i>				<i>-5.38</i>	
US EQUITY TERRA MARIA	416,970,011	0.8	-11.98	-20.36	-12.53	-18.06	-12.53	3.68	3.31	11.57	6.60	04/01/07
TERRA MARIA US EQUITY BENCHMARK ^[3]			-11.94	-20.62	-10.76	-18.12	-10.76	6.35	5.83	12.82	6.84	04/01/07
<i>Excess</i>			<i>-0.05</i>	<i>0.26</i>	<i>-1.77</i>	<i>0.06</i>	<i>-1.77</i>	<i>-2.67</i>	<i>-2.52</i>	<i>-1.25</i>	<i>-0.23</i>	
TOTAL US EQUITY TM + U.S. EQUITY ACTIVE	2,761,476,504	5.5	-9.54	-14.81	-6.31	-9.61	-6.31	7.71	6.50	12.42	8.18	07/01/08
TM US EQ + ACTIVE US EQ BM ^[2]			-9.59	-14.70	-6.04	-9.36	-6.04	8.53	7.56	13.18	8.91	07/01/08
<i>Excess</i>			<i>0.05</i>	<i>-0.11</i>	<i>-0.27</i>	<i>-0.25</i>	<i>-0.27</i>	<i>-0.82</i>	<i>-1.06</i>	<i>-0.76</i>	<i>-0.73</i>	
U.S. EQUITY EX OVERLAY	5,823,387,839	11.6	-9.52	-14.75	-5.73	-9.14	-5.73	8.25	7.15	12.67	8.42	04/01/94
MSRA CUSTOM US EQUITY INDEX ^[4]			-9.31	-14.30	-5.24	-8.20	-5.24	8.97	7.91	13.18		04/01/94
<i>Excess</i>			<i>-0.21</i>	<i>-0.44</i>	<i>-0.49</i>	<i>-0.94</i>	<i>-0.49</i>	<i>-0.73</i>	<i>-0.76</i>	<i>-0.51</i>		
US Equity Tactical	2,511,687	0.0										10/01/18
US Equity Structural	0	0.0										02/01/17
U.S. EQUITY OVERLAY	2,511,687	0.0										02/01/17



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
U.S. EQUITY	5,825,899,526	11.7	-9.53	-14.76	-5.75	-9.16	-5.75	8.24	7.15	12.67	8.41	04/01/94
MSRA CUSTOM US EQUITY INDEX ^[4]			-9.31	-14.30	-5.24	-8.20	-5.24	8.97	7.91	13.18		04/01/94
<i>Excess</i>			<i>-0.23</i>	<i>-0.46</i>	<i>-0.51</i>	<i>-0.96</i>	<i>-0.51</i>	<i>-0.73</i>	<i>-0.76</i>	<i>-0.51</i>		
INTERNATIONAL DEVELOPED MARKETS												
SSGA INTERNATIONAL FUND	105,919,732	0.2	-5.12	-12.73	-13.63	-11.56	-13.63	3.58	0.75	6.98	7.42	05/01/03
SSGA INTERNATIONAL CUSTOM INDEX ^[5]			-5.17	-12.78	-14.09	-11.64	-14.09	3.11	0.34	6.61	7.13	05/01/03
<i>Excess</i>			<i>0.05</i>	<i>0.06</i>	<i>0.46</i>	<i>0.08</i>	<i>0.46</i>	<i>0.46</i>	<i>0.41</i>	<i>0.37</i>	<i>0.29</i>	
INTERNATIONAL DEVELOPED EQUITY PASSIVE	105,919,732	0.2	-5.12	-12.73	-13.63	-11.56	-13.63	3.58			2.30	11/01/15
MSCI WORLD EX US NET (DAILY)			-5.17	-12.78	-14.09	-11.64	-14.09	3.11			1.84	11/01/15
<i>Excess</i>			<i>0.05</i>	<i>0.06</i>	<i>0.46</i>	<i>0.08</i>	<i>0.46</i>	<i>0.46</i>			<i>0.45</i>	
ARTISAN PARTNERS, L.P.	504,292,229	1.0	-5.25	-11.98	-10.10	-8.73	-10.10	2.83	0.64	8.88	7.63	11/01/03
ARTISAN CUSTOM BENCHMARK ^[6]			-5.17	-12.78	-14.09	-11.64	-14.09	3.11	0.34	7.10	6.17	11/01/03
<i>Excess</i>			<i>-0.08</i>	<i>0.80</i>	<i>3.99</i>	<i>2.91</i>	<i>3.99</i>	<i>-0.29</i>	<i>0.30</i>	<i>1.78</i>	<i>1.46</i>	
AQR ENHANCED ACWI EX-US	456,060,498	0.9	-4.62	-14.30	-18.00	-14.14	-18.00	1.51	-0.19		0.12	12/01/13
AQR Enhanced Custom Benchmark ^[7]			-5.17	-12.78	-14.09	-11.64	-14.09	3.66	0.20		0.37	12/01/13
<i>Excess</i>			<i>0.54</i>	<i>-1.52</i>	<i>-3.91</i>	<i>-2.50</i>	<i>-3.91</i>	<i>-2.15</i>	<i>-0.40</i>		<i>-0.25</i>	
BROWN CAPITAL MANAGEMENT INT'L	487,682,159	1.0	-5.20	-13.75	-11.71	-11.73	-11.71	1.54	2.47	9.35	10.48	12/01/08
Brown Capital Management International Custom Benchmark ^[8]			-5.35	-13.28	-14.68	-12.43	-14.68	3.30	0.21	6.63	7.18	12/01/08
<i>Excess</i>			<i>0.15</i>	<i>-0.47</i>	<i>2.98</i>	<i>0.71</i>	<i>2.98</i>	<i>-1.76</i>	<i>2.26</i>	<i>2.72</i>	<i>3.30</i>	

SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
DFA INTERNATIONAL CORE EQUITY	360,872,587	0.7	-5.64	-15.01	-16.94	-14.75	-16.94	3.91	1.24		3.42	05/01/13
MSCI WORLD EX US (NET)			-5.17	-12.78	-14.09	-11.64	-14.09	3.11	0.34		2.09	05/01/13
<i>Excess</i>			-0.47	-2.23	-2.85	-3.10	-2.85	0.80	0.90		1.33	
RHUMBLINE SCI BETA INTL EX-US	583,259,920	1.2	-4.85	-13.22	-16.47	-12.36	-16.47				1.34	03/01/17
SciBeta Developed ex USA Value Div MS			-4.90	-12.77	-15.88	-11.82	-15.88				1.89	03/01/17
<i>Excess</i>			0.04	-0.46	-0.59	-0.53	-0.59				-0.56	
INTERNATIONAL DEVELOPED EQUITY ACTIVE ^[9]	2,392,309,624	4.8	-5.08	-13.56	-14.69	-12.21	-14.69	2.49	0.28	6.34		01/01/95
CUSTOM INTL DEV EQ ACTIVE BENCHMARK ^[10]			-5.14	-12.88	-14.68	-11.85	-14.68	3.48	0.41	6.66		01/01/95
<i>Excess</i>			0.06	-0.68	-0.02	-0.36	-0.02	-1.00	-0.13	-0.31		
ATTUCKS INTL DEVELOPED (TM)	378,336,185	0.8	-5.56	-15.63	-15.49	-14.30	-15.49	4.85	3.48	9.88	10.67	12/01/08
MSCI WORLD EX US NET (DAILY)			-5.17	-12.78	-14.09	-11.64	-14.09	3.11	0.34	6.24	6.73	12/01/08
<i>Excess</i>			-0.40	-2.84	-1.40	-2.66	-1.40	1.74	3.14	3.64	3.94	
FIS INTL SMALL CAP (TM)	262,582,800	0.5	-8.04	-17.37	-18.85	-16.90	-18.85				-0.51	04/01/17
MSCI WORLD EX US SMALL CAP (NET)			-6.41	-16.16	-18.07	-16.88	-18.07				-0.14	04/01/17
<i>Excess</i>			-1.63	-1.20	-0.78	-0.02	-0.78				-0.38	
LEADING EDGE INTL DEVELOPED (TM)	360,801,573	0.7	-5.60	-15.60	-17.35	-15.01	-17.35	3.48	1.46	8.73	9.34	12/01/08
MSCI WORLD EX US NET (DAILY)			-5.17	-12.78	-14.09	-11.64	-14.09	3.11	0.34	6.24	6.73	12/01/08
<i>Excess</i>			-0.43	-2.82	-3.26	-3.37	-3.26	0.36	1.12	2.49	2.61	
INTL DEVELOPED EQUITY TERRA MARIA ^[9]	1,001,836,990	2.0	-6.24	-16.08	-17.04	-15.22	-17.04	3.08	0.77	7.38	1.64	11/01/07
TERRA MARIA INTL DEVELOPED EQ BM ^[11]			-5.41	-13.62	-15.12	-13.05	-15.12	3.61	0.42	6.74	0.36	11/01/07
<i>Excess</i>			-0.83	-2.46	-1.92	-2.17	-1.92	-0.53	0.35	0.64	1.28	



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
INTL DEVELOPED EQUITY ACTIVE AND TM ^[9]	3,394,146,614	6.8	-5.43	-14.32	-15.40	-13.12	-15.40	2.64	0.40	6.59	1.55	07/01/08
TM INTL DEV EQ + ACTIVE INTL DEV EQ BM ^[10]			-5.22	-13.10	-14.79	-12.20	-14.79	3.53	0.42	6.69	1.37	07/01/08
<i>Excess</i>			<i>-0.21</i>	<i>-1.22</i>	<i>-0.61</i>	<i>-0.93</i>	<i>-0.61</i>	<i>-0.89</i>	<i>-0.02</i>	<i>-0.10</i>	<i>0.18</i>	
INTL EQUITY TRANSITION ACCOUNT	6,874	0.0										11/01/04
TOTAL INTL DEV EQUITY EX RECORD CURRENCY ^[9]	3,500,073,220	7.0	-5.42	-14.27	-15.38	-13.10	-15.38	2.64	0.14	6.44		01/01/95
MSRA CUSTOM INTERNATIONAL INDEX ^[12]			-5.17	-12.78	-14.09	-11.64	-14.09	3.11	0.00	6.32		01/01/95
<i>Excess</i>			<i>-0.25</i>	<i>-1.49</i>	<i>-1.29</i>	<i>-1.46</i>	<i>-1.29</i>	<i>-0.48</i>	<i>0.14</i>	<i>0.12</i>		
RECORD CURRENCY MANAGEMENT	29,397,913	0.1										05/01/09
TOTAL INTL DEVELOPED EQUITY EX OVERLAY ^[9]	3,529,471,133	7.1	-5.73	-14.04	-14.76	-12.70	-14.76	2.12	0.65	6.74	5.70	01/01/95
MSRA CUSTOM INTERNATIONAL INDEX ^[12]			-5.17	-12.78	-14.09	-11.64	-14.09	3.11	0.00	6.32	4.77	01/01/95
<i>Excess</i>			<i>-0.56</i>	<i>-1.26</i>	<i>-0.67</i>	<i>-1.05</i>	<i>-0.67</i>	<i>-1.00</i>	<i>0.65</i>	<i>0.42</i>	<i>0.94</i>	
International Equity Tactical	0	0.0										01/01/17
International Equity Structural	0	0.0										02/01/17
TOTAL INTL DEVELOPED EQUITY OVERLAY	0	0.0										12/01/16
TOTAL INTL DEVELOPED EQUITY	3,529,471,133	7.1	-5.73	-14.04	-14.76	-12.70	-14.76	2.11	0.64	6.74	5.70	01/01/95
MSRA CUSTOM INTERNATIONAL INDEX ^[12]			-5.17	-12.78	-14.09	-11.64	-14.09	3.11	0.00	6.32	4.77	01/01/95
<i>Excess</i>			<i>-0.56</i>	<i>-1.26</i>	<i>-0.67</i>	<i>-1.05</i>	<i>-0.67</i>	<i>-1.01</i>	<i>0.64</i>	<i>0.42</i>	<i>0.93</i>	



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
EMERGING MARKETS												
SSGA EMERGING MARKETS INDEX FUND	117,294,453	0.2	-2.64	-7.45	-14.77	-8.45	-14.77	8.75	1.19		2.72	06/01/12
MSCI EMERGING MARKETS			-2.65	-7.46	-14.57	-8.48	-14.57	9.25	1.65		3.43	06/01/12
<i>Excess</i>			0.01	0.01	-0.21	0.03	-0.21	-0.50	-0.46		-0.71	
METIS GLOBAL PARTNERS	78,075	0.0										03/01/18
EMERGING MARKETS EQUITY PASSIVE												
SSGA EMERGING MARKETS INDEX FUND	117,372,527	0.2	-2.71	1.49	-12.52	3.00	-12.52	9.70			7.04	11/01/15
MSCI EMERGING MARKETS			-2.65	-7.46	-14.57	-8.48	-14.57	9.25			6.62	11/01/15
<i>Excess</i>			-0.06	8.95	2.05	11.48	2.05	0.45			0.42	
BAILLIE GIFFORD EMERGING MARKETS	660,425,855	1.3	-4.32	-8.28	-14.79	-7.55	-14.79	10.47			8.89	11/01/15
MSCI EMERGING MARKETS			-2.65	-7.46	-14.57	-8.48	-14.57	9.25			6.62	11/01/15
<i>Excess</i>			-1.67	-0.81	-0.23	0.93	-0.23	1.22			2.26	
DFA EMERGING MARKETS	892,203,952	1.8	-2.38	-6.39	-15.25	-7.52	-15.25				11.22	02/01/16
MSCI EMERGING MARKETS			-2.65	-7.46	-14.57	-8.48	-14.57				12.09	02/01/16
<i>Excess</i>			0.27	1.07	-0.68	0.95	-0.68				-0.87	
ACADIAN EMRG MKTS MANAGED VOLATILITY EQ	243,971,600	0.5	-1.01	-3.67	-4.47	-1.69	-4.47				6.91	04/01/16
MSCI EMERGING MARKETS			-2.65	-7.46	-14.57	-8.48	-14.57				7.92	04/01/16
<i>Excess</i>			1.64	3.80	10.10	6.79	10.10				-1.02	

SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
POLUNIN CAPITAL PARTNERS	376,269,540	0.8	-2.54	-8.36	-17.59	-8.35	-17.59				8.92	04/01/16
MSCI EMERGING MARKETS			-2.65	-7.46	-14.57	-8.48	-14.57				7.92	04/01/16
<i>Excess</i>			0.11	-0.90	-3.02	0.12	-3.02				1.00	
AXIOM INTERNATIONAL INVESTORS	706,444,312	1.4	-3.27	-8.44	-16.18	-10.91	-16.18				8.15	05/01/16
MSCI EMERGING MARKETS			-2.65	-7.46	-14.57	-8.48	-14.57				7.96	05/01/16
<i>Excess</i>			-0.62	-0.98	-1.61	-2.44	-1.61				0.20	
FISHER INVESTMENTS	446,841,412	0.9	-4.99	-11.44	-18.14	-12.53	-18.14				5.95	05/01/16
MSCI EMERGING MARKETS			-2.65	-7.46	-14.57	-8.48	-14.57				7.96	05/01/16
<i>Excess</i>			-2.35	-3.98	-3.57	-4.06	-3.57				-2.00	
WESTWOOD GLOBAL INVESTMENTS	555,521,463	1.1	-1.35	-8.50	-10.55	-6.29	-10.55	11.54	3.11	10.70	11.80	12/01/08
MSCI EMERGING MARKETS			-2.65	-7.46	-14.57	-8.48	-14.57	9.25	1.65	8.02	8.76	12/01/08
<i>Excess</i>			1.30	-1.04	4.02	2.19	4.02	2.29	1.46	2.68	3.04	
MARSHALL WACE TOPS CHINA A	193,729,800	0.4	-3.69								-3.14	11/01/18
MSCI China A Share Net			-3.64								-1.68	11/01/18
<i>Excess</i>			-0.06								-1.46	
TRANSITION ACCOUNT EMERGING MARKETS	0	0.0	0.00	0.00	0.00	0.00	0.00					05/01/16
TOTAL EMERGING MARKET ACTIVE	4,075,407,935	8.2	-2.93	-7.90	-14.91	-8.51	-14.91	9.62	2.04		2.67	07/01/10
MSCI EMERGING MARKETS			-2.65	-7.46	-14.57	-8.48	-14.57	9.25	1.65		3.05	07/01/10
<i>Excess</i>			-0.28	-0.43	-0.35	-0.04	-0.35	0.37	0.39		-0.39	

SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
EMERGING MARKETS EQUITY TERRA MARIA	323,913,586	0.6	-2.67	-7.04	-10.01							11/01/15
MSCI EMERGING MARKETS			-2.65	-7.46		-8.48						11/01/15
<i>Excess</i>			<i>-0.02</i>	<i>0.42</i>		<i>-1.54</i>						
EMERGING MARKETS ACTIVE AND TM	4,399,321,521	8.8	-2.91	-7.82	-15.16	-8.61	-15.16	9.29			7.18	11/01/15
MSCI EMERGING MARKETS			-2.65	-7.46	-14.57	-8.48	-14.57	9.25			6.62	11/01/15
<i>Excess</i>			<i>-0.26</i>	<i>-0.35</i>	<i>-0.59</i>	<i>-0.13</i>	<i>-0.59</i>	<i>0.04</i>			<i>0.56</i>	
TOTAL EMERGING MARKETS EQUITY EX OVERLAY	4,516,694,048	9.0	-2.91	-7.45	-14.91	-8.15	-14.91	9.09			6.70	11/01/15
MSCI EMERGING MARKETS			-2.65	-7.46	-14.57	-8.48	-14.57	9.25			6.62	11/01/15
<i>Excess</i>			<i>-0.26</i>	<i>0.02</i>	<i>-0.34</i>	<i>0.32</i>	<i>-0.34</i>	<i>-0.16</i>			<i>0.08</i>	
Emrg Mkts Structural Overlay	18,143,331	0.0										02/01/17
Emrg Mkts Tactical Overlay	25,397,021	0.1										10/01/17
TOTAL EMERGING MARKETS OVERLAY	43,540,351	0.1										02/01/17
TOTAL EMERGING MARKETS EQUITY	4,560,234,399	9.1	-3.18	-7.62	-14.88	-8.32	-14.88	9.04			6.66	11/01/15
MSCI EMERGING MARKETS			-2.65	-7.46	-14.57	-8.48	-14.57	9.25			6.62	11/01/15
<i>Excess</i>			<i>-0.53</i>	<i>-0.15</i>	<i>-0.31</i>	<i>0.15</i>	<i>-0.31</i>	<i>-0.21</i>			<i>0.04</i>	
GLOBAL EQUITY												
BAILLIE GIFFORD	553,498,523	1.1	-7.56	-16.64	-1.34	-16.17	-1.34	13.65	12.10	16.53	9.38	02/01/08
MSCI AC WORLD INDEX NET			-7.04	-12.75	-9.41	-9.02	-9.41	6.60	4.26	9.46	4.12	02/01/08
<i>Excess</i>			<i>-0.51</i>	<i>-3.89</i>	<i>8.08</i>	<i>-7.15</i>	<i>8.08</i>	<i>7.05</i>	<i>7.84</i>	<i>7.07</i>	<i>5.25</i>	



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
LONGVIEW PRTNRS GLOBAL EQUITY	631,445,738	1.3	-8.25	-10.02	-1.75	-3.51	-1.75	9.32	7.99		11.93	10/01/09
MSCI AC WORLD INDEX NET			-7.04	-12.75	-9.41	-9.02	-9.41	6.60	4.26		7.30	10/01/09
<i>Excess</i>			-1.21	2.73	7.67	5.51	7.67	2.72	3.73		4.63	
AQR CAPITAL - GLOBAL EQUITY	851,307,616	1.7	-7.13	-15.39	-14.06	-12.64	-14.06	4.46	3.63		8.11	08/01/10
MSCI AC WORLD INDEX NET			-7.04	-12.75	-9.41	-9.02	-9.41	6.60	4.26		7.73	08/01/10
<i>Excess</i>			-0.08	-2.64	-4.65	-3.62	-4.65	-2.14	-0.62		0.38	
D.E. SHAW INV - GLOBAL EQUITY	786,116,728	1.6	-6.70	-14.64	-8.82	-10.46	-8.82	6.34	5.05		9.50	08/01/10
MSCI WORLD INDEX			-7.60	-13.42	-8.71	-9.10	-8.71	6.30	4.56		8.49	08/01/10
<i>Excess</i>			0.90	-1.23	-0.11	-1.35	-0.11	0.03	0.49		1.01	
TOTAL GLOBAL EQUITY ACTIVE	2,822,873,432	5.6	-7.35	-14.29	-7.66	-10.89	-7.66	7.66	5.60	11.47	6.50	10/01/05
MSCI AC WORLD INDEX NET			-7.04	-12.75	-9.41	-9.02	-9.41	6.60	4.26	9.46	5.34	10/01/05
<i>Excess</i>			-0.30	-1.54	1.75	-1.86	1.75	1.06	1.34	2.02	1.16	
MARSHALL WACE EUREKA FUND	532,135,201	1.1	-0.23	-5.26	0.51	-5.09	0.51	4.98	7.22		9.88	10/01/12
HFRI Equity Hedge (Total) Index			-3.69	-8.33	-6.96	-8.03	-6.96	3.59	2.31		4.34	10/01/12
<i>Excess</i>			3.45	3.07	7.48	2.95	7.48	1.39	4.91		5.54	
CRITERION HORIZONS FUND	3,998,311	0.0										09/01/13
SCOPIA PX LLC	10,559,247	0.0	-1.40	-6.65	-27.41	-9.39	-27.41	-10.47	-4.44		-1.76	07/01/12
HFRI Equity Hedge (Total) Index			-3.69	-8.33	-6.96	-8.03	-6.96	3.59	2.31		4.71	07/01/12
<i>Excess</i>			2.29	1.68	-20.45	-1.36	-20.45	-14.06	-6.75		-6.47	

SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
HOPLITE ONSHORE	105,585,469	0.2	-2.62	-4.94	0.32	-2.47	0.32	0.24	1.47		3.22	02/01/13
HFRI Equity Hedge (Total) Index			-3.69	-8.33	-6.96	-8.03	-6.96	3.59	2.31		3.70	02/01/13
<i>Excess</i>			<i>1.06</i>	<i>3.39</i>	<i>7.29</i>	<i>5.57</i>	<i>7.29</i>	<i>-3.35</i>	<i>-0.84</i>		<i>-0.48</i>	
INDUS PACIFIC OPPORTUNITIES FUND	129,055,400	0.3	-7.20	-18.31	-22.49	-20.33	-22.49	0.68	2.74		4.67	06/01/13
HFRI Equity Hedge (Total) Index			-3.69	-8.33	-6.96	-8.03	-6.96	3.59	2.31		3.34	06/01/13
<i>Excess</i>			<i>-3.51</i>	<i>-9.98</i>	<i>-15.53</i>	<i>-12.30</i>	<i>-15.53</i>	<i>-2.91</i>	<i>0.43</i>		<i>1.33</i>	
TOTAL EQUITY HEDGE FUND	781,333,628	1.6	-1.79	-7.13	-7.35	-7.30	-7.35	0.20	1.29		3.39	07/01/12
HFRI Equity Hedge (Total) Index			-3.69	-8.33	-6.96	-8.03	-6.96	3.59	2.31		4.71	07/01/12
<i>Excess</i>			<i>1.89</i>	<i>1.19</i>	<i>-0.38</i>	<i>0.73</i>	<i>-0.38</i>	<i>-3.40</i>	<i>-1.01</i>		<i>-1.33</i>	
TOTAL GLB EQ TM + GLB EQ ACTIVE + HF	3,604,207,060	7.2	-6.20	-12.79	-7.82	-10.18	-7.82	5.38	4.30	10.40	4.91	07/01/08
TM GLOBAL + ACTIVE GLOBAL BM + EQ HF ^[2]			-6.47	-11.97	-8.71	-8.89	-8.71	5.65	3.69	9.07	4.21	07/01/08
<i>Excess</i>			<i>0.28</i>	<i>-0.82</i>	<i>0.89</i>	<i>-1.29</i>	<i>0.89</i>	<i>-0.27</i>	<i>0.61</i>	<i>1.33</i>	<i>0.69</i>	
GLOBAL EQUITY TRANSITION ACCOUNT	4,048,363	0.0										06/01/11
TOTAL GLOBAL EQUITY EX RECORD CURRENCY	3,608,255,423	7.2	-6.19	-12.78	-7.81	-10.18	-7.81	5.53	4.35	10.37	5.82	10/01/05
MSRA CUSTOM GLOBAL INDEX ^[13]			-7.04	-12.75	-9.41	-9.02	-9.41	6.60	4.26	9.59	5.43	10/01/05
<i>Excess</i>			<i>0.85</i>	<i>-0.03</i>	<i>1.60</i>	<i>-1.16</i>	<i>1.60</i>	<i>-1.07</i>	<i>0.09</i>	<i>0.78</i>	<i>0.39</i>	
RECORD CURRENCY - GLOBAL	12,961,088	0.0										05/01/09
TOTAL GLOBAL EQUITY EX OVERLAY	3,621,216,511	7.2	-6.26	-12.66	-7.48	-9.99	-7.48	5.39	4.57	10.49	5.91	10/01/05
MSRA CUSTOM GLOBAL INDEX ^[13]			-7.04	-12.75	-9.41	-9.02	-9.41	6.60	4.26	9.59	5.43	10/01/05
<i>Excess</i>			<i>0.78</i>	<i>0.09</i>	<i>1.94</i>	<i>-0.97</i>	<i>1.94</i>	<i>-1.21</i>	<i>0.31</i>	<i>0.91</i>	<i>0.48</i>	



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
PUBLIC EQUITY												
TOTAL PUBLIC EQUITY EX OVERLAY	17,490,769,531	35.0	-6.46	-12.45	-10.54	-9.87	-10.54	5.82	4.41	9.94		04/01/94
PUBLIC EQ BM 2 ^[14]			-6.21	-11.85	-10.35	-9.13	-10.35	7.05	4.40	9.76		04/01/94
<i>Excess</i>			-0.25	-0.59	-0.19	-0.74	-0.19	-1.23	0.01	0.18		
TOTAL PUBLIC EQUITY OVERLAY	46,052,039	0.1										12/01/16
TOTAL PUBLIC EQUITY	17,536,821,569	35.1	-6.52	-12.48	-10.51	-9.90	-10.51	5.82	4.41	9.94		04/01/94
PUBLIC EQ BM 2 ^[14]			-6.21	-11.85	-10.35	-9.13	-10.35	7.05	4.40	9.76		04/01/94
<i>Excess</i>			-0.31	-0.63	-0.16	-0.77	-0.16	-1.23	0.01	0.18		
PRIVATE EQUITY												
TOTAL PRIVATE EQUITY	7,038,653,214	14.1	0.02	3.92	18.44	8.68	18.44	16.54	15.13	12.65	8.18	03/01/94
Custom MD/SS PEI Index ^[15]			-0.84	3.03	15.00	7.14	15.00	12.83	11.74	9.77		03/01/94
<i>Excess</i>			0.86	0.89	3.44	1.54	3.44	3.71	3.39	2.88		
TOTAL GROWTH EQUITY	24,575,474,783	49.2	-4.70	-8.28	-3.74	-5.20	-3.74	8.47	6.69	10.97	5.66	01/01/98
GROWTH EQUITY CUSTOM BENCHMARK ^[16]			-4.81	-8.11	-4.37	-5.04	-4.37	8.68				01/01/98
<i>Excess</i>			0.11	-0.16	0.63	-0.16	0.63	-0.21				
RATE SENSITIVE												
NOMINAL FIXED INCOME												
SSGA US GOVT LONG BOND INDEX	1,217,053,578	2.4	5.40	4.25	-1.78	1.27	-1.78				-0.92	11/01/16
BBG BARC US Gov Lg Idx			5.39	4.16	-1.79	1.22	-1.79				-0.81	11/01/16
<i>Excess</i>			0.01	0.09	0.01	0.05	0.01				-0.12	



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
SSGA US SECURITIZED INDEX	338,009,346	0.7	1.76	2.01	0.53	1.93	0.53				0.52	11/01/16
BBG BARC Sec Idx			1.78	2.04	0.99	1.97	0.99				0.80	11/01/16
<i>Excess</i>			-0.02	-0.03	-0.46	-0.04	-0.46				-0.28	
SSGA US LONG INVEST GRADE CORP INDEX	75,418,687	0.2	2.41	-1.81	-6.80	-0.34	-6.80				0.07	11/01/16
BBG BARC Lg Corp			2.42	-1.80	-7.24	-0.51	-7.24				0.35	11/01/16
<i>Excess</i>			-0.01	-0.01	0.44	0.16	0.44				-0.28	
SSGA US INTERM INVEST GRADE INDEX	152,306,292	0.3	1.13	0.71	0.02	1.57	0.02				0.99	11/01/16
BBG BARC US Corp Int Inv Grd Idx			1.05	0.58	-0.23	1.39	-0.23				0.95	11/01/16
<i>Excess</i>			0.08	0.13	0.25	0.18	0.25				0.05	
SSGA PASSIVE FIXED INCOME	1,782,787,903	3.6	4.19	3.21	-1.19	1.33	-1.19	2.78	2.57	3.51	3.85	05/01/03
SSgA Aggregate Bond Custom Benchmark ^[17]			4.14	3.09	-1.39	1.31	-1.39	2.66	2.59	3.53		05/01/03
<i>Excess</i>			0.05	0.12	0.21	0.02	0.21	0.13	-0.02	-0.02		
US NOMINAL FIXED INCOME PASSIVE	1,782,787,903	3.6	4.19	3.21	-1.19	1.33	-1.19	2.78			2.23	11/01/15
US NOMINAL FI PASSIVE BENCHMARK ^[18]			4.14	3.09	-1.39	1.31	-1.39	2.66			2.27	11/01/15
<i>Excess</i>			0.05	0.12	0.21	0.02	0.21	0.13			-0.04	
PIMCO	1,334,812,261	2.7	3.78	2.69	-1.14	1.18	-1.14	3.33	2.64	4.28		06/01/84
PIMCO Custom Blended Index ^[19]			4.14	3.09	-1.39	1.31	-1.39	2.66	2.59	3.68		06/01/84
<i>Excess</i>			-0.36	-0.40	0.26	-0.13	0.26	0.67	0.05	0.61		
WESTERN ASSET MANAGEMENT	2,805,309,827	5.6	4.11	3.15	-1.93	1.55	-1.93	3.59	3.18	6.94	5.51	09/01/03
WESTERN ASSET MANAGEMENT CUSTOM BM ^[20]			4.14	3.09	-1.39	1.31	-1.39	2.66	2.55	3.66	4.01	09/01/03
<i>Excess</i>			-0.02	0.06	-0.54	0.24	-0.54	0.93	0.63	3.28	1.50	

SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
DOUBLELINE US SECURITIZED	407,251,903	0.8	1.69	2.00	1.32	2.00	1.32				1.12	10/01/17
BBG BARC Sec Dly			1.78	2.04	0.99	1.97	0.99				0.92	10/01/17
<i>Excess</i>			-0.09	-0.05	0.33	0.03	0.33				0.20	
GARDA FIRVO	299,100,000	0.6	-1.19	-1.06	1.17	-0.03	1.17				4.73	04/01/16
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13				3.65	04/01/16
<i>Excess</i>			-0.40	1.93	1.04	1.95	1.04				1.08	
DODGE & COX - FI CORE	301,086,577	0.6	1.34	-0.63	-2.88	0.59	-2.88	3.64	3.23		5.00	03/01/09
CORE BOND CUSTOM BENCHMARK ^[22]			1.47	-0.18	-2.51	0.79	-2.51	2.07	2.31		3.58	03/01/09
<i>Excess</i>			-0.13	-0.45	-0.37	-0.20	-0.37	1.58	0.92		1.42	
WESTERN ASSET - ISRAEL BD	21,871,717	0.0	0.62	1.09	0.68	1.63	0.68	0.31	0.67	1.83	2.47	06/01/05
WESTERN ASSET ISRAEL BOND INDEX			0.62	1.30	1.74	2.17	1.74	2.40	2.24	2.03	1.02	06/01/05
<i>Excess</i>			0.00	-0.21	-1.07	-0.54	-1.07	-2.09	-1.57	-0.20	1.45	
US NOMINAL FIXED INCOME ACTIVE	5,169,432,285	10.3	3.33	2.46	-1.38	1.37	-1.38	3.41	2.99	5.36	4.42	07/01/08
CUSTOM NOMINAL FIXED INCOME BENCHMARK ^[23]			4.14	3.09	-1.39	1.31	-1.39	2.66	2.61	3.70	3.67	07/01/08
<i>Excess</i>			-0.80	-0.63	0.01	0.06	0.01	0.75	0.38	1.66	0.76	
US NOMINAL FIXED INCOME TERRA MARIA	581,529,772	1.2	1.37	1.27	0.21	1.39	0.21	2.05	2.28	4.70	5.03	11/01/08
TERRA MARIA FI BENCHMARK ^[24]			1.70	1.71	0.33	1.77	0.33	1.68	2.06	5.03	5.79	11/01/08
<i>Excess</i>			-0.33	-0.44	-0.12	-0.38	-0.12	0.37	0.22	-0.33	-0.76	
TOTAL RATE SENSITIVE (CP)	581,529,772	1.2	1.37	1.27	0.21	1.39	0.21	2.20	2.43	4.41	4.88	11/01/08
RATE SENSITIVE (CP) BENCHMARK ^[24]			1.70	1.71	0.33	1.77	0.33	1.85	2.20	3.42	4.11	11/01/08
<i>Excess</i>			-0.33	-0.44	-0.12	-0.38	-0.12	0.36	0.23	0.99	0.77	

SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
TOTAL US NOMINAL FI ACTIVE + TM	5,729,090,340	11.5	3.14	2.34	-1.23	1.37	-1.23	3.28	2.92	5.31	4.37	07/01/08
CUSTOM NOMINAL FIXED INCOME BENCHMARK ^[23]			4.14	3.09	-1.39	1.31	-1.39	2.66	2.61	3.70	3.67	07/01/08
<i>Excess</i>			<i>-1.00</i>	<i>-0.75</i>	<i>0.17</i>	<i>0.06</i>	<i>0.17</i>	<i>0.62</i>	<i>0.31</i>	<i>1.61</i>	<i>0.71</i>	
US NOMINAL FIXED INCOME	7,533,749,960	15.1	3.38	2.54	-1.23	1.34	-1.23	3.19	2.87	4.92	4.45	07/01/08
US NOMINAL FIXED INCOME BENCHMARK ^[25]			4.14	3.09	-1.39	1.31	-1.39	2.66	2.59	3.53	3.75	07/01/08
<i>Excess</i>			<i>-0.76</i>	<i>-0.56</i>	<i>0.17</i>	<i>0.03</i>	<i>0.17</i>	<i>0.53</i>	<i>0.28</i>	<i>1.38</i>	<i>0.70</i>	
NOMINAL FIXED INCOME EX OVERLAY	7,533,750,066	15.1	3.38	2.54	-1.23	1.34	-1.23	3.18	2.94	5.00	6.86	07/01/86
CUSTOM NOMINAL FIXED INCOME BENCHMARK ^[23]			4.14	3.09	-1.39	1.31	-1.39	2.66	2.61	3.70		07/01/86
<i>Excess</i>			<i>-0.76</i>	<i>-0.56</i>	<i>0.17</i>	<i>0.03</i>	<i>0.17</i>	<i>0.53</i>	<i>0.33</i>	<i>1.30</i>		
Nominal FI Tactical	6,310,880	0.0										01/01/17
Nominal FI Structural	16,416,052	0.0										01/01/17
NOMINAL FIXED INCOME OVERLAY	22,726,932	0.0										01/01/17
NOMINAL FIXED INCOME	7,556,476,998	15.1	3.32	2.37	-1.42	1.15	-1.42	3.15	2.92	4.99	6.85	07/01/86
CUSTOM NOMINAL FIXED INCOME BENCHMARK ^[23]			4.14	3.09	-1.39	1.31	-1.39	2.66	2.61	3.70		07/01/86
<i>Excess</i>			<i>-0.82</i>	<i>-0.72</i>	<i>-0.02</i>	<i>-0.16</i>	<i>-0.02</i>	<i>0.49</i>	<i>0.31</i>	<i>1.29</i>		
INFLATION SENSITIVE												
SSGA PASSIVE US TIPS	2,230,758,960	4.5	0.54	-0.53	-1.59	-1.44	-1.59	2.17	1.82		-0.27	12/01/12
BBG BARC US TIPS Idx			0.55	-0.49	-1.48	-1.41	-1.48	2.19	1.84		-0.22	12/01/12
<i>Excess</i>			<i>-0.01</i>	<i>-0.03</i>	<i>-0.11</i>	<i>-0.03</i>	<i>-0.11</i>	<i>-0.01</i>	<i>-0.01</i>		<i>-0.05</i>	

SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
TOTAL U.S. TIPS	2,230,758,960	4.5	0.54	-0.53	-1.59	-1.44	-1.59	2.17	1.82	3.90	3.73	02/01/06
CUSTOM US TIPS MD BM ^[26]			0.55	-0.49	-1.48	-1.41	-1.48	2.19	1.84	3.63	3.52	02/01/06
<i>Excess</i>			<i>-0.01</i>	<i>-0.03</i>	<i>-0.11</i>	<i>-0.03</i>	<i>-0.11</i>	<i>-0.01</i>	<i>-0.01</i>	<i>0.27</i>	<i>0.20</i>	
INFLATION SENSITIVE FI EX OVERLAY	2,231,181,557	4.5	0.54	-0.53	-1.59	-1.45	-1.59	2.18	2.37	4.22	3.36	07/01/08
CUSTOM INFLATION SENSITIVE BENCHMARK ^[27]			0.55	-0.49	-1.48	-1.41	-1.48	2.19	2.37	3.89	3.14	07/01/08
<i>Excess</i>			<i>-0.01</i>	<i>-0.04</i>	<i>-0.11</i>	<i>-0.04</i>	<i>-0.11</i>	<i>-0.01</i>	<i>0.00</i>	<i>0.33</i>	<i>0.22</i>	
Inflation Sensitive FI Tactical	5,594,072	0.0										07/01/17
INFLATION SENSITIVE FIXED INCOME OVERLAY	5,594,072	0.0										07/01/17
INFLATION SENSITIVE FIXED INCOME	2,236,775,629	4.5	0.54	-0.53	-1.69	-1.45	-1.69	2.13	2.35	4.20	3.35	07/01/08
CUSTOM INFLATION SENSITIVE BENCHMARK ^[27]			0.55	-0.49	-1.48	-1.41	-1.48	2.19	2.37	3.89	3.14	07/01/08
<i>Excess</i>			<i>-0.01</i>	<i>-0.04</i>	<i>-0.22</i>	<i>-0.04</i>	<i>-0.22</i>	<i>-0.06</i>	<i>-0.03</i>	<i>0.31</i>	<i>0.21</i>	
TOTAL RATE SENSITIVE EX OVERLAY	9,764,931,623	19.5	2.74	1.84	-1.32	0.71	-1.32	2.80	2.71	4.88	6.82	07/01/86
CUSTOM RATE SENSITIVE BENCHMARK ^[28]			3.40	2.35	-1.40	0.74	-1.40	2.61	2.58	3.68		07/01/86
<i>Excess</i>			<i>-0.66</i>	<i>-0.51</i>	<i>0.08</i>	<i>-0.04</i>	<i>0.08</i>	<i>0.18</i>	<i>0.14</i>	<i>1.20</i>		
TOTAL RATE SENSITIVE OVERLAY	28,321,004	0.1										01/01/17
TOTAL RATE SENSITIVE	9,793,252,627	19.6	2.69	1.72	-1.49	0.56	-1.49	2.76	2.69	4.87	6.82	07/01/86
CUSTOM RATE SENSITIVE BENCHMARK ^[28]			3.40	2.35	-1.40	0.74	-1.40	2.61	2.58	3.68		07/01/86
<i>Excess</i>			<i>-0.71</i>	<i>-0.64</i>	<i>-0.09</i>	<i>-0.19</i>	<i>-0.09</i>	<i>0.14</i>	<i>0.11</i>	<i>1.19</i>		

SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
CREDIT/DEBT												
<i>US CREDIT</i>												
PIMCO HIGH QUALITY HY	889,380,177	1.8	-2.00	-4.63	-1.59						-1.59	07/01/18
BBG BARC Ba to B US HY Idx			-1.73	-3.60	-1.38						-1.38	07/01/18
<i>Excess</i>			<i>-0.27</i>	<i>-1.03</i>	<i>-0.21</i>						<i>-0.21</i>	
CREDIT SUISSE US BANK LOANS	460,529,103	0.9	-2.78	-3.34	0.89						0.89	07/01/18
S&P/LSTA Leverage Loan Index			-2.54	-3.45	-1.68						-1.68	07/01/18
<i>Excess</i>			<i>-0.23</i>	<i>0.11</i>	<i>2.57</i>						<i>2.57</i>	
PINE BRIDGE HIGH QUALITY HY	580,505,758	1.2	-2.37	-4.88	-3.25						-3.25	07/01/18
BBG BARC Ba to B US HY Idx			-1.73	-3.60	-1.38						-1.38	07/01/18
<i>Excess</i>			<i>-0.64</i>	<i>-1.29</i>	<i>-1.87</i>						<i>-1.87</i>	
KKR BANK LOANS	17,829,363	0.0										09/01/10
CREDIT/DEBT TRANSITION ACCOUNT	0	0.0										02/01/09
CREDIT/DEBT TERRA MARIA ^[29]	15	0.0										01/01/10
HIGH YIELD/BANK LOAN EX OVERLAY	1,948,441,897	3.9	-2.36	-4.19	-1.59	-2.01	-1.59	4.43			3.33	11/01/15
HIGH YIELD CUSTOM BENCHMARK ^[30]			-2.22	-4.32	-1.58	-2.12	-1.58	6.75			4.98	11/01/15
<i>Excess</i>			<i>-0.14</i>	<i>0.13</i>	<i>-0.01</i>	<i>0.12</i>	<i>-0.01</i>	<i>-2.32</i>			<i>-1.65</i>	
TOTAL DISTRESSED DEBT	697,194,443	1.4	-0.41	1.47	5.69	1.89	5.69	10.52	9.62		9.38	01/01/10

SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
TOTAL MEZZANINE DEBT	401,645,381	0.8	0.07	2.50	8.28	3.13	8.28	9.99	8.06		8.40	01/01/10
PERELLA WEINBERG	59,479,506	0.1	0.00	3.66	0.77	6.55	0.77	-4.47	0.33		5.04	07/01/10
HFRI ED: Distressed/Restructuring Index			-2.68	-5.99	-2.02	-4.75	-2.02	6.23	1.68		4.39	07/01/10
<i>Excess</i>			2.68	9.65	2.78	11.30	2.78	-10.70	-1.35		0.65	
ANCHORAGE CAPITAL GROUP	6,345,037	0.0										11/01/11
TOTAL CREDIT HEDGE FUND	65,824,543	0.1	0.00	3.32	6.17	6.02	6.17	3.27	3.81		6.63	07/01/10
HFRI ED: Distressed/Restructuring Index			-2.68	-5.99	-2.02	-4.75	-2.02	6.23	1.68		4.39	07/01/10
<i>Excess</i>			2.68	9.31	8.19	10.78	8.19	-2.96	2.13		2.24	
US CREDIT EX OVERLAY	3,113,106,263	6.2	-1.56	-1.96	1.44	-0.35	1.44	6.13	5.03		8.89	03/01/09
U.S. CREDIT CUSTOM BENCHMARK ^[31]			-2.22	-4.32	-1.58	-2.12	-1.58	6.75	3.94		7.97	03/01/09
<i>Excess</i>			0.66	2.35	3.02	1.78	3.02	-0.62	1.09		0.92	
NON US CREDIT												
LOGAN CIRCLE HARD CURRENCY EM	401,845,313	0.8	0.86	-2.01		0.46					0.46	07/01/18
Custom EM HC Benchmark ^[32]			1.29	-0.58		1.01					1.01	07/01/18
<i>Excess</i>			-0.43	-1.43		-0.55					-0.55	
SSGA LOCAL CURRENCY EM	357,927,841	0.7	1.21								3.77	11/01/18
Custom EM Debt Benchmark ^[33]			1.39								3.66	11/01/18
<i>Excess</i>			-0.18								0.11	



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
NON US CREDIT EX OVERLAY	759,770,421	1.5	1.03	-0.24	-5.78	0.24	-5.78	5.47	-1.51		-0.64	10/01/10
NON-U.S. CREDIT CUSTOM BENCHMARK ^[34]			1.34	0.91	-3.47	1.56	-3.47	6.34	-0.45		0.20	10/01/10
<i>Excess</i>			<i>-0.31</i>	<i>-1.16</i>	<i>-2.31</i>	<i>-1.32</i>	<i>-2.31</i>	<i>-0.87</i>	<i>-1.06</i>		<i>-0.84</i>	
TOTAL CREDIT/DEBT STRATEGIES EX OVERLAY	3,872,876,684	7.7	-1.07	-1.63	-1.42	-0.27	-1.42	5.56	3.88		8.72	03/01/09
MSRA CUSTOM CREDIT BENCHMARK ^[35]			-1.44	-3.18	-1.96	-1.30	-1.96	6.69	3.10		7.39	03/01/09
<i>Excess</i>			<i>0.37</i>	<i>1.54</i>	<i>0.54</i>	<i>1.03</i>	<i>0.54</i>	<i>-1.14</i>	<i>0.78</i>		<i>1.33</i>	
REAL ASSETS												
REAL ESTATE												
SSGA GLOBAL REAL ESTATE	214,493,928	0.4	-5.43	-5.45	-4.62	-5.34	-4.62	3.63			3.99	05/01/14
FTSE EPRA Nareit Developed Net Index			-5.56	-5.69	-5.63	-5.97	-5.63	2.72			3.15	05/01/14
<i>Excess</i>			<i>0.14</i>	<i>0.24</i>	<i>1.01</i>	<i>0.63</i>	<i>1.01</i>	<i>0.91</i>			<i>0.84</i>	
MORGAN STANLEY GLOBAL REIT	470,782,915	0.9	-6.60	-7.66	-7.20	-7.71	-7.20	2.15			3.04	05/01/14
FTSE EPRA Nareit Developed Net Index			-5.56	-5.69	-5.63	-5.97	-5.63	2.72			3.15	05/01/14
<i>Excess</i>			<i>-1.04</i>	<i>-1.97</i>	<i>-1.57</i>	<i>-1.74</i>	<i>-1.57</i>	<i>-0.57</i>			<i>-0.11</i>	
TOTAL REITS EX RECORD CURRENCY	685,290,116	1.4	-6.24	-6.98	-6.40	-6.80	-6.40	2.75	4.45	10.08		04/01/94
CUSTOM MD REIT BM ^[36]			-5.56	-5.69	-5.63	-5.97	-5.63	2.72	4.29	10.02		04/01/94
<i>Excess</i>			<i>-0.68</i>	<i>-1.29</i>	<i>-0.76</i>	<i>-0.83</i>	<i>-0.76</i>	<i>0.03</i>	<i>0.16</i>	<i>0.06</i>		
RECORD CURRENCY MANAGEMENT-REITS	1,575,389	0.0										07/01/11

SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
TOTAL REITS EX OVERLAY	686,865,504	1.4	-6.37	-6.93	-6.14	-6.49	-6.14	2.51	4.61	10.33		04/01/94
CUSTOM MD REIT BM ^[36]			-5.56	-5.69	-5.63	-5.97	-5.63	2.72	4.29	10.02		04/01/94
<i>Excess</i>			<i>-0.81</i>	<i>-1.24</i>	<i>-0.50</i>	<i>-0.52</i>	<i>-0.50</i>	<i>-0.21</i>	<i>0.32</i>	<i>0.31</i>		
TOTAL PRIVATE REAL ESTATE	4,101,362,875	8.2	0.83	2.14	8.64	2.60	8.64	8.85	11.01	5.94	9.20	03/01/94
CUSTOM MD PRIVATE REAL ESTATE BM ^[37]			0.78	2.09	8.68	4.19	8.68	8.80	10.72	7.18	9.64	03/01/94
<i>Excess</i>			<i>0.05</i>	<i>0.05</i>	<i>-0.04</i>	<i>-1.58</i>	<i>-0.04</i>	<i>0.04</i>	<i>0.29</i>	<i>-1.24</i>	<i>-0.44</i>	
MSIM Cus FTSE EPRA NAREIT Dev ex US(Net) ^[38]			-5.56	-5.68	-5.62	-5.96	-5.62	2.72	3.25	9.18		11/01/06
WILSHIRE RESI			-8.35	-6.98	-4.80	-6.30	-4.80	2.41	8.17	12.40		01/01/78
TOTAL REAL ESTATE	4,788,228,380	9.6	-0.27	0.74	6.19	1.20	6.19	7.83	9.91	8.46	6.81	07/01/87
REAL ESTATE CUSTOM INDEX ^[39]			-0.17	0.93	6.51	2.65	6.51	7.96	9.67	9.30	8.18	07/01/87
<i>Excess</i>			<i>-0.10</i>	<i>-0.20</i>	<i>-0.31</i>	<i>-1.46</i>	<i>-0.31</i>	<i>-0.13</i>	<i>0.24</i>	<i>-0.85</i>	<i>-1.37</i>	
NATURAL RESOURCE AND INFRASTRUCTURE												
TORTOISE CAPITAL DOMESTIC EQ	88,951,910	0.2	-8.83	-16.32	-13.27	-13.76	-13.27	-1.05	-4.13		8.86	08/01/09
S&P MLP Total Return Index			-9.04	-17.80	-11.67	-12.55	-11.67	0.57	-6.59		6.22	08/01/09
<i>Excess</i>			<i>0.20</i>	<i>1.48</i>	<i>-1.60</i>	<i>-1.20</i>	<i>-1.60</i>	<i>-1.61</i>	<i>2.46</i>		<i>2.64</i>	
HARVEST FUND ADVISORS	85,005,211	0.2	-10.73	-20.77	-12.52	-16.09	-12.52	-0.40	-3.94		9.89	11/01/09
S&P MLP Total Return Index			-9.04	-17.80	-11.67	-12.55	-11.67	0.57	-6.59		5.95	11/01/09
<i>Excess</i>			<i>-1.69</i>	<i>-2.97</i>	<i>-0.86</i>	<i>-3.54</i>	<i>-0.86</i>	<i>-0.97</i>	<i>2.66</i>		<i>3.95</i>	
RHUMBLINE DJ BROOKFIELD GLOBAL INFRA	463,513,442	0.9	-5.08	-7.20	-6.62	-7.05	-6.62				-4.65	11/01/17
DJ Brookfield Global Infra Comp			-5.15	-7.42	-8.54	-7.32	-8.54				-6.48	11/01/17
<i>Excess</i>			<i>0.07</i>	<i>0.22</i>	<i>1.92</i>	<i>0.27</i>	<i>1.92</i>				<i>1.82</i>	



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
RHUMBLINE GLOBAL NATURAL RESOURCES	276,083,085	0.6	-5.08	-16.78	-11.96	-15.59	-11.96				-5.63	11/01/17
S&P Global Natural Resources (Net)			-5.14	-16.89	-13.08	-15.93	-13.08				-6.65	11/01/17
<i>Excess</i>			0.06	0.12	1.12	0.34	1.12				1.03	
TOTAL ENERGY FUNDS	585,590,770	1.2	-0.15	4.76	15.22	7.09	15.22	9.79	3.71		8.05	01/01/10
TOTAL INFRASTRUCTURE	92,006,239	0.2	0.00	-0.93	-1.92	2.46	-1.92	-2.45	4.80		3.28	10/01/09
TIMBER LP FUNDS	214,265,080	0.4	0.01	0.33	3.17	1.27	3.17	2.88	3.19		6.69	05/01/10
NATURAL RESOURCE AND INFRASTRUCTURE	1,805,415,736	3.6	-3.21	-5.61	-0.56	-4.02	-0.56	3.40	1.25		9.11	08/01/09
NATURAL RESOURCE AND INFRASTRUCTURE BM ^[40]			-5.11	-13.10	-10.84	-12.34	-10.84	6.45	6.18		6.43	08/01/09
<i>Excess</i>			1.89	7.49	10.28	8.32	10.28	-3.05	-4.93		2.68	
TOTAL REAL ASSETS EX OVERLAY	6,593,644,116	13.2	-1.09	-1.07	4.38	-0.28	4.38	5.72	2.36	4.73	4.02	02/01/06
CUSTOM REAL ASSETS BENCHMARK ^[41]			-1.54	-3.12	1.57	-1.73	1.57	6.67	2.48	3.45	3.13	02/01/06
<i>Excess</i>			0.45	2.05	2.81	1.45	2.81	-0.96	-0.12	1.28	0.88	
TOTAL REAL ASSETS OVERLAY	-13	-0.0										01/01/17
TOTAL REAL ASSETS	6,593,644,103	13.2	-1.09	-1.07	4.38	-0.28	4.38	5.72	2.36	4.73	4.02	02/01/06
CUSTOM REAL ASSETS BENCHMARK ^[41]			-1.54	-3.12	1.57	-1.73	1.57	6.67	2.48	3.45	3.13	02/01/06
<i>Excess</i>			0.45	2.05	2.81	1.45	2.81	-0.96	-0.12	1.28	0.88	



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
ABSOLUTE RETURN												
1977 MERGER ARBITRAGE FUND	169,606,500	0.3	1.81	5.99	13.07	6.75	13.07				13.07	01/01/18
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13				0.13	01/01/18
<i>Excess</i>			2.60	8.97	12.94	8.73	12.94				12.94	
SHOALS FINANCIALS OPPORTUNITY FUND, LP	103,232,300	0.2	1.05	-1.71		1.86					3.23	03/01/18
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99		-1.98					-0.54	03/01/18
<i>Excess</i>			1.84	1.28		3.84					3.77	
KING STREET CAPITAL	123,499,756	0.2	-1.51	-2.20	0.58	-1.26	0.58	3.48	2.99		4.93	12/01/11
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13	2.71	2.25		3.42	12/01/11
<i>Excess</i>			-0.72	0.79	0.45	0.72	0.45	0.77	0.73		1.51	
EMPYREAN CAPITAL FUND	291,657,300	0.6	-1.01	-4.27		-3.75					-2.78	06/01/18
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99		-1.98					-1.86	06/01/18
<i>Excess</i>			-0.22	-1.28		-1.77					-0.93	
EVENT DRIVEN STRATEGIES												
HFRI FoF CONSERVATIVE + 100 bps	687,995,856	1.4	-0.11	-1.15	3.07	-0.05	3.07					07/01/17
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13					07/01/17
<i>Excess</i>			0.68	1.84	2.94	1.93	2.94					
BRIDGEWATER PURE ALPHA	848,793,189	1.7	5.61	8.99	10.71	6.89	10.71	4.67	4.82	5.71	5.57	05/01/08
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13	2.71	2.25	3.55	1.36	05/01/08
<i>Excess</i>			6.41	11.98	10.57	8.87	10.57	1.96	2.57	2.16	4.21	



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
GRAHAM TACTICAL TREND	331,119,435	0.7	-4.83	-11.80	-13.89	-6.76	-13.89	-7.46			-6.70	07/01/15
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13	2.71			1.84	07/01/15
<i>Excess</i>			-4.03	-8.82	-14.02	-4.78	-14.02	-10.17			-8.53	
TENACIS SYSTEMATIC GLOBAL MACRO FUND	76,105,000	0.2	-5.07	-15.12	-23.89	-3.51	-23.89				-23.89	01/01/18
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13				0.13	01/01/18
<i>Excess</i>			-4.28	-12.13	-24.03	-1.53	-24.03				-24.03	
FORT GLOBAL CONTRARIAN	199,241,000	0.4	-1.13	-5.02		-4.23					-1.49	03/01/18
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99		-1.98					-0.54	03/01/18
<i>Excess</i>			-0.34	-2.04		-2.25					-0.95	
GLOBAL MACRO/GTAA STRATEGIES	1,455,258,624	2.9	1.53	0.11	0.41	1.35	0.41	-0.65	-0.32	2.45	2.07	04/01/08
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13	2.71	2.25	3.55	1.40	04/01/08
<i>Excess</i>			2.33	3.10	0.28	3.33	0.28	-3.36	-2.58	-1.11	0.67	
NEPHILA PALMETTO FUND	229,942,544	0.5	-0.13	-7.03	-4.50	-5.33	-4.50	-2.40	0.81		0.81	01/01/14
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13	2.71	2.25		2.25	01/01/14
<i>Excess</i>			0.66	-4.05	-4.64	-3.35	-4.64	-5.11	-1.45		-1.45	
NIMBUS WEATHER FUND LTD	99,353,300	0.2	0.23	0.43	5.07	4.60	5.07				-2.19	06/01/17
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13				1.92	06/01/17
<i>Excess</i>			1.02	3.41	4.93	6.58	4.93				-4.11	
PRIVATE MARKET FUNDS	63,838,359	0.1	0.68	8.00		4.91					21.53	06/01/18
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99		-1.98					-1.86	06/01/18
<i>Excess</i>			1.47	10.99		6.89					23.39	



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
OPPORTUNISTIC	393,134,203	0.8	0.08	-3.17	-0.22	-0.96	-0.22	-1.02	1.66		1.66	01/01/14
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13	2.71	2.25		2.25	01/01/14
<i>Excess</i>			<i>0.87</i>	<i>-0.18</i>	<i>-0.35</i>	<i>1.03</i>	<i>-0.35</i>	<i>-3.73</i>	<i>-0.60</i>		<i>-0.60</i>	
CARLSON DOUBLE BLACK DIAMOND	293,747,239	0.6	0.00	-1.55	3.99	-2.33	3.99	2.12	2.53		2.53	01/01/14
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13	2.71	2.25		2.25	01/01/14
<i>Excess</i>			<i>0.80</i>	<i>1.44</i>	<i>3.86</i>	<i>-0.35</i>	<i>3.86</i>	<i>-0.59</i>	<i>0.28</i>		<i>0.28</i>	
HUDSON BAY FUND	437,658,375	0.9	-0.47	-0.21	7.10	1.99	7.10	7.34			3.90	10/01/14
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13	2.71			2.09	10/01/14
<i>Excess</i>			<i>0.32</i>	<i>2.78</i>	<i>6.97</i>	<i>3.97</i>	<i>6.97</i>	<i>4.63</i>			<i>1.80</i>	
ARISTEIA CAPITAL	349,204,800	0.7	0.26	0.55	6.81	3.05	6.81	8.31			4.11	12/01/14
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13	2.71			2.22	12/01/14
<i>Excess</i>			<i>1.06</i>	<i>3.54</i>	<i>6.68</i>	<i>5.04</i>	<i>6.68</i>	<i>5.60</i>			<i>1.89</i>	
ARISTEIA CO-INVEST	38,900,960	0.1	1.20	-1.86	6.45	2.94	6.45				7.69	03/01/16
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13				3.63	03/01/16
<i>Excess</i>			<i>1.99</i>	<i>1.13</i>	<i>6.31</i>	<i>4.92</i>	<i>6.31</i>				<i>4.06</i>	
EXODUS POINT	300,444,900	0.6	-0.41	-0.38							0.15	08/01/18
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99							-2.18	08/01/18
<i>Excess</i>			<i>0.38</i>	<i>2.61</i>							<i>2.33</i>	



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
RELATIVE VALUE STRATEGIES	1,419,956,274	2.8	-0.14	-0.39	5.56	0.81	5.56	3.80	2.63		2.63	01/01/14
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13	2.71	2.25		2.25	01/01/14
<i>Excess</i>			0.66	2.60	5.43	2.79	5.43	1.09	0.38		0.38	
BLACKROCK ABSOLUTE RETURN STRUCTURAL	79,581,761	0.2	-1.89	-3.50		-2.59					-2.76	06/01/18
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99		-1.98					-1.86	06/01/18
<i>Excess</i>			-1.10	-0.51		-0.61					-0.91	
TOTAL ABSOLUTE RETURN	4,036,406,526	8.1	0.38	-0.77	1.75	0.47	1.75	2.44	1.63	3.64	3.12	04/01/08
CUSTOM ABSOLUTE RETURN BENCHMARK ^[21]			-0.79	-2.99	0.13	-1.98	0.13	2.71	2.25	3.55	1.40	04/01/08
<i>Excess</i>			1.18	2.22	1.61	2.46	1.61	-0.27	-0.63	0.08	1.72	
MULTI ASSET												
BRIDGEWATER ALL WEATHER	400,718,917	0.8	-1.67	-4.51	-4.98	-4.79	-4.98	5.30	3.24		7.32	07/01/09
CUSTOM BRIDGEWATER BENCHMARK ^[42]			-0.79	-2.99	0.13	-1.98	0.13	2.71	2.48		5.32	07/01/09
<i>Excess</i>			-0.88	-1.52	-5.11	-2.80	-5.11	2.59	0.77		2.00	
BLACKROCK CASH EQUITIZATION	315,922,026	0.6	-4.35	-8.46	-6.87	-7.00	-6.87				5.54	12/01/16
FTSE 3 MONTH T-BILL			0.20	0.57	1.86	1.07	1.86				1.31	12/01/16
<i>Excess</i>			-4.55	-9.03	-8.73	-8.07	-8.73				4.23	
TOTAL MULTI ASSET	716,640,943	1.4	-2.87	-6.29		-5.66					-5.66	07/01/18
TOTAL PLAN POLICY INDEX ^[43]			-2.14	-4.55		-2.83					-2.83	07/01/18
<i>Excess</i>			-0.73	-1.74		-2.82					-2.82	



SUMMARY OF PERFORMANCE

	Market Value	% of Plan	1 MO	3 MO	YTD	FYTD	1 YR	3 YRS	5 YRS	10 YRS	ITD	Inception Date
CASH												
MARYLAND MONEY MARKET ACCOUNT	310,668,961	0.6	0.20	0.57	2.30	1.09	2.30	1.27	0.79		0.52	01/01/11
FTSE 3 MONTH T-BILL			0.20	0.57	1.86	1.07	1.86	0.99	0.60		0.40	01/01/11
<i>Excess</i>			0.00	0.01	0.44	0.03	0.44	0.28	0.19		0.12	
SELF LIQUIDATING ACCOUNT	4,552,367	0.0	1.58	3.03								06/01/84
TOTAL CASH	408,782,276	0.8	1.77	2.38	6.33	3.50	6.33	6.58	4.57	3.60	3.68	07/01/08
FTSE 3 MONTH T-BILL			0.20	0.57	1.86	1.07	1.86	0.99	0.60	0.35	0.40	07/01/08
<i>Excess</i>			1.57	1.82	4.47	2.43	4.47	5.59	3.97	3.25	3.28	
TOTAL PLAN	49,997,077,941	100.0	-2.12	-4.35	-1.63	-2.63	-1.63	6.23	4.87	8.16	7.85	07/01/86
TOTAL PLAN POLICY INDEX ^[43]			-2.14	-4.55	-2.44	-2.83	-2.44	6.38	4.44	7.58		07/01/86
<i>Excess</i>			0.03	0.20	0.80	0.21	0.80	-0.14	0.42	0.58		
TOTAL PLAN CUSTOM STATIC INDEX ^[44]			-2.17	-4.58	-2.28	-2.83	-2.28	6.49	4.69	7.55		07/01/08

ENDNOTES

- [1] Since 12/01/2016: 100% Russell 1000
From 04/01/2013 to 11/30/2016: 100% Russell 3000
- [2] Benchmark is dynamically calculated using Beginning Market Value weights of the underlying portfolios and their benchmarks
- [3] Since 11/01/2008: Benchmark is dynamically calculated using Average Balance (BMV+ Weighted Net Cash Flows) weights of the underlying portfolios and their corresponding indices. From 09/01/2008 - 10/31/2008: Benchmark was dynamically calculated based on the beginning weights of the underlying portfolios and their corresponding indices. From 05/01/2008 - 08/31/2008: 11.1% S&P 500; 13.3% Russell 1000 Value; 33.3% Russell 1000 Growth; 16.7% Russell Mid Cap Growth; 25.6% Russell 2000 Value 11/01/2007 - 04/30/2008: 10.9% S&P 500; 13.1% Russell 1000 Value; 33.3% Russell 1000 Growth; 17.2% Russell Mid Cap Growth; 25.6 Russell 2000 Value Prior to 11/01/2007: 11% S&P 500; 13.1% Russell 1000 Value; 32% Russell 1000 Growth; 16.5% Russell Mid Cap Growth; 27.4% Russell 2000 Value
- [4] Since 07/01/2008: 100% Russell 3000
From 01/01/2005 to 6/30/2008: 100% Dow Jones Willshire 5000
Prior to 01/01/2005: 100% Russell 3000
- [5] Since 09/01/2009: 100% MSCI EAFE + CANADA (NET)
From 01/01/2005 to 08/31/2009: 100% MSCI AC WORLD ex US (NET)
From 05/01/2003 to 12/31/2004: 100% MSCI EAFE (NET)
- [6] From 11/01/2003: 100% of MSCI AC WORLD ex US (NET)
From 07/01/2012: 100% of MSCI WORLD EX US (NET)
- [7] Since 04/01/2016: 100% MSCI WORLD EX US (NET).
From 01/01/2013 to 03/31/2016: 100% MSCI AC World ex US Net.
- [8] Since 06/01/2016: 100% MSCI World Ex US IMI Net
From 12/01/2008 to 05/31/2016: 100% MSCI All Country World ex US IMI Net
- [9] Returns for periods prior to 11/01/2015 also included Emerging Market Equity portfolios.
- [10] Benchmark is dynamically calculated using Beginning Market Value weights of the underlying portfolios and their benchmarks. Returns for periods prior to 11/01/2015 also included Emerging Market Equity portfolios.
- [11] Since 11/01/2008: Benchmark is dynamically calculated using Average Balance (BMV+ Weighted Net Cash Flows) weights. Prior to 11/01/2008: 100% MSCI EAFE (net).
Returns for periods prior to 11/01/2015 also included Emerging Market Equity portfolios.
- [12] Since 11/01/2015: 100% MSCI WORLD EX US (NET)
From 07/01/2010 to 10/31/2015: 100% MSCI All Country World ex. U.S.
From 07/01/2009 to 06/30/2010: 100% MSCI All Country World ex. U.S. IMI Net
From 01/01/2003 to 06/30/2009: 100% MSCI All Country World ex. U.S.
Prior to 01/01/2003: 100% MSCI EAFE
- [13] Since 07/01/2010: 100% MSCI AC WORLD NET
From 07/01/2009 to 06/30/2010: 100% MSCI ACWI IMI NET
Prior to 07/01/2009: 100% MSCI AC WORLD NET

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- [14] Since 10/01/2017: Weighted off Transitional Targets; 43.243% Russell 3000, 27.027% MSCI World ex. U.S. (Net), 29.730% MSCI EM
From 07/01/2016 to 09/30/2017: Weighted off Transitional Targets; 44.445% Russell 3000, 33.333% MSCI World ex. U.S. (Net), 22.222% MSCI EM
From 01/01/2016 to 06/30/2016: Weighted off Transitional Targets; 45.946% Russell 3000, 37.838% MSCI World ex. U.S. (Net), 16.216% MSCI EM
From 11/01/2015 to 12/31/2015: Weighted off Transitional Targets; 47.369% Russell 3000, 42.105% MSCI World ex. U.S. (Net), 10.526% MSCI EM
Prior to 11/01/2015: Benchmark is dynamically calculated using the weights of the US Equity, International Equity, and Global Equity aggregates and the corresponding asset class benchmarks
- [15] The Private Equity benchmark is the State Street Private Equity Index (1 quarter lag). However, in non-quarter end months, the actual Private Equity return will be applied. In the third month of the quarter, the return will be calculated so that when geometrically linked with months 1 and 2, the three month return equals the published SS PEI (1 quarter lag).
- [16] Benchmark is a dynamic blend of the Public Equity Benchmark and the State Street Private Equity Index based off of sub-asset class weights used in the policy benchmark.
- [17] Since 10/01/2017: 66.67% Barclays US Government Long Bond Index, 16.67% Barclays US Investment Grade Corporate Index, 16.66% Barclays US Securitized Index
From 11/01/2015 to 09/30/2017: 62.50% Barclays US Government Long Bond Index, 18.75% Barclays US Investment Grade Corporate Index, 18.75% Barclays US Securitized Index
From 07/01/2013 to 10/31/2015: 100% Barclays US Intermediate Aggregate Index
Prior 07/01/2013: 100% Barclays Aggregate Bond
- [18] Since 10/01/2017: 66.67% Barclays US Government Long Bond Index, 16.67% Barclays US Investment Grade Corporate Index, 16.66% Barclays US Securitized Index
From 11/01/2015 to 09/30/2017: 62.50% Barclays US Government Long Bond Index, 18.75% Barclays US Investment Grade Corporate Index, 18.75% Barclays US Securitized Index
- [19] Since 10/01/2017: 66.67% Barclays US Government Long Bond Index, 16.67% Barclays US Investment Grade Corporate Index, 16.66% Barclays US Securitized Index
From 11/01/2015 to 09/30/2017: 62.50% Barclays US Government Long Bond Index, 18.75% Barclays US Investment Grade Corporate Index, 18.75% Barclays US Securitized Index
From 07/01/2013 to 10/31/2015: 100% Barclays US Intermediate Aggregate Index
07/01/2009 to 06/30/2013: 100% Barclays Aggregate Bond
11/01/2003 to 06/30/2009: 100% Barclays US Universal Index
Prior to 11/01/2003: 100% Citigroup BIG
- [20] Since 10/01/2017: 66.67% Barclays US Government Long Bond Index, 16.67% Barclays US Investment Grade Corporate Index, 16.66% Barclays US Securitized Index
10/01/2015 to 09/30/2017: 62.50% Barclays US Government Long Bond Index, 18.75% Barclays US Investment Grade Corporate Index, 18.75% Barclays US Securitized Index
07/01/2013 to 09/30/2015: 100% Barclays US Intermediate Aggregate Index
07/01/2009 to 06/30/2013: 100% Barclays Aggregate Bond Index
Prior to 07/01/2009: 100% Barclays US Universal Index
- [21] Since 11/01/2015: HFRI Fund of Funds Conservative + 100 bps.
From 07/01/2014 to 10/31/2015: HFRI FOF: Conservative Index.
From 07/01/2008 to 06/30/2014 benchmark was HFRI Fund of Funds index.
Prior to 07/01/2008 benchmark was the Citigroup 3-Month T-bill + 500 bps.
- [22] Since 10/01/2017: 100% Barclays US Investment Grade Corporate Index
From 12/01/2015 to 09/30/2017: 62.50% Barclays US Government Long Bond Index, 18.75% Barclays US Investment Grade Corporate Index, 18.75% Barclays US Securitized Index
From 07/01/2013 to 11/31/2015: 100% Barclays US Intermediate Aggregate Index
Prior 07/01/2013: 100% Barclays Aggregate Bond
- [23] Since 10/01/2017: 66.67% Barclays US Government Long Bond Index, 16.67% Barclays US Investment Grade Corporate Index, 16.66% Barclays US Securitized Index
From 11/01/2015 to 09/30/2017: 62.50% Barclays US Government Long Bond Index, 18.75% Barclays US Investment Grade Corporate Index, 18.75% Barclays US Securitized Index
From 07/01/2013 to 10/31/2015: 80% BC Aggregate Intermediate, 20% BC Global Aggregate 1-10 Year Hedged
From 07/01/2010 to 06/30/2013: 80% BC Aggregate, 20% BC Global Bond Aggregate Hedged
From 01/01/2010 to 06/30/2010: 80% BC Aggregate, 20% BC Global Bond Aggregate Unhedged
From 07/01/2009 to 12/31/2009: Benchmark is dynamically calculated using Beginning Market Value weights of the underlying portfolios and their benchmarks
Prior to 07/01/2009: Benchmark is BC US Universal
- [24] Benchmark is dynamically calculated based on the Average Balance (BMV + Weighted Net Cash Flows) weights of the underlying portfolios and their corresponding indices

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- [25] Since 11/01/2015: 66.67% Barclays US Government Long Bond Index, 16.67% Barclays US Investment Grade Corporate Index, 16.66% Barclays US Securitized Index
From 11/01/2015 to 09/30/2017: 62.50% Barclays US Government Long Bond Index, 18.75% Barclays US Investment Grade Corporate Index, 18.75% Barclays US Securitized Index
From 07/01/2013 to 10/31/2015: 100% Barclays US Intermediate Aggregate Index
Prior 07/01/2013: 100% Barclays Aggregate Bond
- [26] As of 12/01/2012: 100% of Barclays US TIPS Index, B Series
From 02/01/2006 to 11/30/2012: 100% of Barclays Global Inflation Linked:US TIPS, L Series
- [27] Since 11/01/2015: 100% Barclays US TIPS Index
From 12/01/2012 to 10/31/2015: 50% Barclays Global Inflation Linked:US TIPS; 50% Barclays World Inflat-Linked Bond Index
Prior to 11/30/2012: 65% Barclays Global Inflation Linked:US TIPS; 35% Barclays World Inflat-Linked Bond Index
- [28] Since 10/01/2017: 53% Barclays Long-Term Government, 13% Barclays Securitized, 13% Barclays Corporate, 21% Barclays U.S. TIPS
From 07/01/2016 to 09/30/2017: 48% Barclays Long-Term Government, 14% Barclays Securitized, 14% Barclays Corporate, 24% Barclays U.S. TIPS
From 11/01/2015 to 06/30/2016: 50% Barclays Long-Term Government, 15% Barclays Securitized, 15% Barclays Corporate, 20% Barclays U.S. TIPS
From 07/01/2013 to 10/31/2015: 80% BC Aggregate Intermediate, 20% BC Global Aggregate 1-10 Year Hedged
From 07/01/2010 to 06/30/2013: 80% BC Aggregate, 20% BC Global Bond Aggregate Hedged
From 01/01/2010 to 06/30/2010: 80% BC Aggregate, 20% BC Global Bond Aggregate Unhedged
From 07/01/2009 to 12/31/2009: Benchmark is dynamically calculated using Beginning Market Value weights of the underlying portfolios and their benchmarks
Prior to 07/01/2009: Benchmark is BC US Universal.
Formerly named "Custom Fixed Income Benchmark" prior to 11/01/2015.
- [29] As of 01/01/2010 all high yield and convertible managers were moved out of the Fixed Income asset class and into the Credit/Debt asset class. Historical returns for high yield and convertible managers remain in Fixed Income composite.
- [30] 80% Barclays US High Yield, 20% S&P/LSTA Leveraged Loan
- [31] Since 11/01/2015: 80% Barclays US High Yield, 20% S&P/LSTA Leveraged Loan.
From 07/01/2013 to 10/31/2015: 62.5% Barclays US High Yield, 25% Barclays Credit, 12.5% S&P/LSTA Leveraged Loan.
From 01/01/2010 to 06/30/2013: 50% Barclays Credit, 50% Barclays Corp High Yield.
From 03/01/2009 to 12/31/2009: 75% Barclays Credit, 25% Barclays Corp High Yield.
- [32] 50% BBG Barc EM Hard Cur Agg: Sovereign/50% BBG Barc EM USD Aggregate Corporate TR
- [33] Since 10/01/2017: 100% Bloomberg EM Local Govt -30 BPS
Prior to 10/01/2017: 100% JP Morgan GBI EM Global Diversified (G)
- [34] Since 10/01/2017: 50% BBG Barc EM Local Govt -30bps, 25% BBG Barc EM Hard Cur Agg: Sovereign, 25% BBG Barc EM USD Aggregate Corporate TR.
From 11/01/2015 to 09/30/2017: 50% JP Morgan GBI EM Global Diversified, 25% JP Morgan EMBI Global Diversified, 25% JPMorgan CEMBI Broad.
Prior to 11/01/2015: 100% JP Morgan GBI EM Global Diversified.
- [35] Since 10/01/2017: 78% US Credit Benchmark, 22% non-U.S Credit Benchmark.
From 01/01/2016 to 09/30/2017: 67% US Credit Benchmark, 33% non-U.S Credit Benchmark.
From 11/01/2015 to 12/31/2015: 75% US Credit Benchmark, 25% non-U.S Credit Benchmark.
From 07/01/2013 to 10/31/2015: 50% BC High Yield / 20% BC Credit / 20% JP Morgan GBI EM Global Diversified/ 10% S&P/LSTA Leveraged Loan Index
From 01/01/2010 to 06/30/2013: 50% BC Credit / 50% BC High Yield
Prior to 01/01/2010: 75% BC Credit / 25% BC High Yield
- [36] From 11/01/2006: Benchmark is dynamically calculated using BMV weights of the underlying portfolios and their benchmarks.
From 04/01/1994: 100% of LaSalle REIT Benchmark

ENDNOTES

- [37] The Private Real Estate benchmark is the NCREIF ODCE (1 quarter lag) since 07/01/2013. However, in non-quarter end months, the actual Maryland Private Real Estate return will be applied. In the third month of the quarter, the return will be calculated so that when geometrically linked with months 1 and 2, the three month return equals the published NCREIF ODCE (1 quarter lag). Prior 07/01/2013, the Private Real Estate benchmark is the NCREIF PROPERTY INDEX QTR LAG.
- [38] Since 11/2007 benchmark is 100% FTSE EPRA NAREIT Developed Ex US (Net) index. Prior to 11/2007, the net version of the index was calculated by and provided to State Street by MSIM
- [39] Since 07/01/2016, a static blend of 85% NCREIF ODCE (one qtr lag) and 15% FTSE EPRA/NAREIT Developed Net Index.
Prior to 07/01/2016, a dynamic blend of the NCREIF ODCE (one qtr lag), and the FTSE EPRA/NAREIT Developed Net Index.
Prior to 05/01/2014, a dynamic blend of the Wilshire RESI, NCREIF ODCE (one qtr lag), and the MSIM Custom EPRA/NAREIT Global ex US
Prior to 07/01/2013, a dynamic blend of the Wilshire RESI, NCREIF Property (one qtr lag), and the MSIM Custom EPRA/NAREIT Global ex US
Prior to 07/01/2008: 50% Wilshire RESI & 50% NCREIF Property (one qtr lag)
- [40] Since 10/01/2017: 60% S&P Global Natural Resources Index; 40% DJ Brookfield Global Infra Comp.
From 07/01/2016 to 09/30/2017: 75% S&P Global Natural Resources Index; 25% DJ Brookfield Global Infra Comp.
From 11/01/2015 to 06/30/2016: 100% of CPI + 5%; 10% Max.
From 08/01/2009 to 10/31/2015: 100% of CPI + 5%; 8% Max.
- [41] Since 10/01/2017: Benchmark is dynamically calculated using the beginning market values of the Real Estate and Natural Resource/Infrastructure sub-asset classes and their corresponding benchmarks.
From 11/01/2015 to 09/30/2017: Benchmark is dynamically calculated using the beginning market values of the Real Estate, Commodities and Natural Resource/Infrastructure sub-asset classes and their corresponding benchmarks.
From 12/01/2012 to 10/31/2015: 30% - DJ UBS Commodities Index (Total Return), 10% - CPI + 5%; 8% Max , 60% - 50% BC US TIPS Index/50% BC World Inflat-Linked Bond Index
From 07/01/2011 to 11/30/2012: 30% - DJ UBS Commodities Index (Total Return), 10% - CPI + 5%; 8% Max , 60% - 65% BC US TIPS Index/35% BC Global Inflation Linked (USD Hedged) Index
From 07/01/2009 to 06/30/2011: 20% - DJ UBS Commodities Index (Total Return), 20% - CPI + 5%; 8% Max , 60% - 65% BC US TIPS Index/35% BC Global Inflation Linked (USD Hedged) Index
07/01/2008 to 06/30/2009: Benchmark is dynamically calculated using Beginning Market Value weights of the underlying portfolios and their benchmarks Prior to 07/01/2008: 100% Barclays US TIPS Index
Prior to 07/01/2008: 100% Barclays US TIPS Index
Formerly named "Custom Real Return Benchmark" prior to 11/01/2015.
- [42] Since 07/01/2014 Benchmark is 100% of Custom Absolute Return Benchmark.
From 07/01/2011 to 06/30/2014 Benchmark is composed of 100% 3 month T-Bill + 6.5%
From 07/01/2009 to 06/30/2011 Benchmark is composed of 75% Barclays Capital US TIPS , 10% DJ-AIG Commodities Total Return Index and 15% MSCI ACWI.
- [43] Since 07/01/2008: Calculated monthly using transitional weights and asset class benchmarks. Prior to 07/01/2008: MSRA TOTAL PLAN STATIC POLICY.
- [44] Calculated monthly using the strategic target weights and asset class benchmarks.

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