



PA Public School Employees' Retirement System | Second Quarter 2020

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## Quarterly Investment Review

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As of June 30, 2020

## Market Highlights

	Performance(%)											
	1 Quarter	YTD	FYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
<b>Equity</b>												
S&P 500 Index	20.54	-3.08	7.51	7.51	10.73	10.73	13.99	8.83	5.91	9.27	10.12	01/01/1926
S&P MidCap 400	24.07	-12.78	-6.70	-6.70	2.39	5.22	11.34	8.21	8.28	10.75	12.57	01/01/1985
S&P SmallCap 600	21.94	-17.85	-11.29	-11.29	0.56	4.48	11.24	7.65	8.36	9.74	9.99	11/01/1994
MSCI EAFE Index (Net)	14.88	-11.34	-5.13	-5.13	0.81	2.05	5.73	4.09	2.91	4.54	8.33	01/01/1970
MSCI AC World ex USA IMI Index (Net)	16.96	-11.24	-4.74	-4.74	0.96	2.30	5.11	4.61	3.66	4.79	4.64	06/01/1994
MSCI AC World ex USA Index (Net)	16.12	-11.00	-4.80	-4.80	1.13	2.26	4.97	4.44	3.42	4.90	4.20	01/01/2001
MSCI Emerging Markets Index (Net)	18.08	-9.78	-3.39	-3.39	1.90	2.86	3.27	6.33	6.60	5.45	9.66	02/01/1988
MSCI Emerging Markets IMI (Net)	18.93	-10.09	-3.97	-3.97	1.35	2.35	3.11	6.31	6.47	4.19	4.35	06/01/1994
<b>Fixed Income</b>												
Blmbg. Barc. U.S. Aggregate	2.90	6.14	8.74	8.74	5.32	4.30	3.82	4.39	5.14	5.36	7.37	01/01/1976
Barclays Universal Index	3.81	5.17	7.88	7.88	5.15	4.42	4.12	4.60	5.34	5.55	6.19	01/01/1990
Blmbg. Barc. U.S. Treasury: Long	0.25	21.20	25.40	25.40	12.04	9.26	7.74	7.19	7.86	7.77	8.57	01/01/1973
Barclays Global Agg GDP Weighted Dev x U.S. Index (unhedged)	4.40	1.45	1.67	1.67	2.81	3.04	2.48	3.14	N/A	N/A	2.70	01/01/2005
Barclays Global Agg GDP Weighted Dev x U.S. Index (hedged)	2.48	2.90	4.71	4.71	5.25	4.67	4.41	4.44	N/A	N/A	4.57	01/01/2005
Blmbg. Barc. U.S. Corp: High Yield	10.18	-3.80	0.03	0.03	3.33	4.79	6.68	6.85	7.00	6.91	8.58	07/01/1983
S&P/LSTA Leveraged Loan Index + 200 bps	10.25	-3.66	-0.03	-0.03	4.11	4.95	6.26	6.37	6.57	N/A	6.72	01/01/1997
JPM GBI-EM Broad Diversified	8.42	-5.39	-1.76	-1.76	1.70	2.73	2.21	4.66	N/A	N/A	5.91	01/01/2003
JPM EMBI Global Diversified	12.26	-2.76	0.49	0.49	3.60	5.30	6.03	6.73	8.45	9.78	8.73	01/01/1994
ICE BofAML Emerging Market Corporate Plus Index (H\$)	9.15	0.35	4.17	4.17	4.65	5.10	5.66	5.92	6.77	N/A	7.21	01/01/1999
Blmbg. Barc. U.S. Govt Infl. Linked All Maturities	4.36	6.37	8.74	8.74	5.26	3.91	3.65	4.09	5.55	N/A	5.41	03/01/1997
Blmbrg Barc World ex U.S. ILB Index (H\$)	7.39	6.66	7.27	7.27	6.50	6.58	5.87	5.44	5.50	N/A	6.15	01/01/1997
ICE BofAML USD 3-Mo Deposit Offered Rate Average Index	0.27	0.73	1.86	1.86	2.04	1.50	N/A	N/A	N/A	N/A	1.32	09/01/2014
ICE BofAML 3 Month U.S. T-Bill	0.02	0.60	1.63	1.63	1.77	1.19	0.64	1.34	1.66	2.38	4.79	01/01/1978
ICE BofAML US Treasury Bills 0-3M	0.02	0.49	1.47	1.47	1.68	1.12	0.59	1.27	1.57	2.29	2.46	07/01/1992

As of June 30, 2020

## Market Highlights

	Performance(%)											
	1 Quarter	YTD	FYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
<b>Infrastructure</b>												
FTSE Dev. Core Infrastr 50/50 Index (Net) (Hedged)	8.33	-12.46	-7.36	-7.36	3.79	6.50	9.88	N/A	N/A	N/A	8.95	01/01/2010
FTSE Developed Core Infrac 50/50 Index (Net)	10.31	-13.56	-8.96	-8.96	2.47	5.54	9.09	N/A	N/A	N/A	7.88	01/01/2010
<b>MLP</b>												
Alerian Midstream Energy Index	32.63	-29.60	-29.45	-29.45	-8.91	-6.54	N/A	N/A	N/A	N/A	-2.71	10/01/2013
<b>Commodities</b>												
Bloomberg Commodity Index Total Return	5.08	-19.40	-17.38	-17.38	-6.14	-7.69	-5.82	-4.34	-0.83	0.75	1.30	02/01/1991
Bloomberg Gold Subindex Total Return	12.07	17.13	25.67	25.67	12.16	8.07	3.03	9.00	8.81	6.06	5.35	02/01/1991
<b>Real Estate</b>												
Burgiss (Lagged) - Opportunistic	-6.07	-2.67	0.51	0.51	6.83	7.06	9.79	7.89	8.45	9.13	8.73	04/01/1993
Burgiss (Lagged) - Value Added	-2.52	0.77	4.14	4.14	9.00	10.02	11.51	9.01	9.30	9.81	9.67	04/01/1994
NCREIF ODCE NOF 1 Quarter Lag	0.75	2.03	3.93	3.93	5.85	7.48	10.42	6.49	7.07	7.97	6.81	04/01/1981
FTSE EPRA/NAREIT Developed Index (Net)	10.07	-21.33	-16.25	-16.25	-1.60	1.27	6.30	4.06	N/A	N/A	4.39	03/01/2005
FTSE EPRA/NAREIT Custom Dev 100% Hedged USD (Net)	9.15	-20.51	-15.02	-15.02	-0.47	2.11	N/A	N/A	N/A	N/A	7.07	01/01/2012
Wilshire US Real Estate Securities Index	10.57	-17.89	-12.39	-12.39	0.22	4.20	9.34	5.97	9.42	9.61	11.03	01/01/1978
<b>Risk Parity</b>												
Blended Policy (Risk Parity)	14.37	4.06	10.51	10.51	8.66	7.37	8.78	7.94	9.05	N/A	5.67	10/01/2012
<b>Absolute Return</b>												
HFRI FOF: Conservative Index + 100 bps	5.83	-1.54	0.51	0.51	2.92	2.48	3.58	3.25	3.87	5.55	6.45	01/01/1990
<b>Private Equity</b>												
Burgiss Private Equity (1Q Lag)	-6.75	-2.66	1.79	1.79	9.79	9.76	11.46	8.94	6.47	N/A	6.22	04/01/1998

## Tier I Composites

As of June 30, 2020

## Trailing Period Performance

	Performance(%)											Inception Date
	1 Quarter	YTD	FYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	
<b>PSERS Total Fund Composite</b>	5.75	-2.94	1.11	1.11	5.62	5.64	7.70	6.11	5.58	7.48	9.43	07/01/1982
<i>Blended Policy (Total Plan)</i>	6.53	-1.61	2.74	2.74	6.26	6.08	7.50	5.94	5.06	N/A	N/A	
Value Added	-0.78	-1.33	-1.63	-1.63	-0.64	-0.44	0.20	0.17	0.52	N/A	N/A	
<b>Total Public Global and Private Equity Exposure (hedged)</b>	4.58	-5.82	0.27	0.27	6.87	7.42	N/A	N/A	N/A	N/A	7.51	10/01/2014
<i>Blended Policy (Total Equity Exposure)</i>	4.69	-5.28	1.13	1.13	7.39	7.82	N/A	N/A	N/A	N/A	7.66	
Value Added	-0.11	-0.54	-0.86	-0.86	-0.52	-0.40	N/A	N/A	N/A	N/A	-0.15	
<b>Total Fixed Income Exposure</b>	5.06	4.82	7.10	7.10	7.16	6.65	6.93	6.78	7.19	N/A	6.81	07/01/1998
<i>Blended Policy (Total FI)</i>	5.90	5.85	8.70	8.70	6.38	5.70	5.15	5.64	6.12	N/A	5.90	
Value Added	-0.84	-1.03	-1.60	-1.60	0.78	0.95	1.78	1.14	1.07	N/A	0.91	
<b>Total Real Asset Exposure (unlevered/hedged)</b>	5.77	-7.76	-4.71	-4.71	2.38	2.34	N/A	N/A	N/A	N/A	2.11	10/01/2014
<i>Blended Policy (Real Assets) (Hedged)</i>	5.35	-7.57	-4.61	-4.61	2.55	2.41	N/A	N/A	N/A	N/A	2.04	
Value Added	0.42	-0.19	-0.10	-0.10	-0.17	-0.07	N/A	N/A	N/A	N/A	0.07	
<b>Risk Parity Composite (vol adjusted)</b>	10.65	-4.89	0.14	0.14	4.96	4.39	N/A	N/A	N/A	N/A	3.85	10/01/2012
<i>Blended Policy (Risk Parity)</i>	14.37	4.06	10.51	10.51	8.66	7.37	8.78	7.94	9.05	N/A	5.67	
Value Added	-3.72	-8.95	-10.37	-10.37	-3.70	-2.98	N/A	N/A	N/A	N/A	-1.82	
<b>Total Absolute Return Composite</b>	5.04	-3.26	-0.49	-0.49	2.23	2.38	3.92	N/A	N/A	N/A	4.34	10/01/2005
<i>Blended Policy (Absolute Return)</i>	5.83	-1.54	1.74	1.74	4.39	4.34	5.59	6.38	6.79	7.03	6.36	
Value Added	-0.79	-1.72	-2.23	-2.23	-2.16	-1.96	-1.67	N/A	N/A	N/A	-2.02	
<b>Financing Composite</b>	0.09	0.49	1.44	1.44	N/A	N/A	N/A	N/A	N/A	N/A	1.44	07/01/2019
<i>ICE BofAML USD 3-Mo Deposit Offered Rate Average Index</i>	0.27	0.73	1.86	1.86	2.04	1.50	N/A	N/A	N/A	N/A	1.86	
Value Added	-0.18	-0.24	-0.42	-0.42	N/A	N/A	N/A	N/A	N/A	N/A	-0.42	
<b>Cash &amp; Cash Equivalents</b>	0.24	0.65	1.67	1.67	1.89	1.15	0.75	0.34	0.25	N/A	0.31	07/01/1998
<i>ICE BofAML US Treasury Bills 0-3M</i>	0.02	0.49	1.47	1.47	1.68	1.12	0.59	1.27	1.57	2.29	1.88	
Value Added	0.22	0.16	0.20	0.20	0.21	0.03	0.16	-0.93	-1.32	N/A	-1.57	

The Financing Composite represents leverage, and therefore has a negative asset balance. Due to the negative asset balance, a negative value-added relative to the benchmark represents outperformance, while a positive value added represents underperformance.

## Trailing Period Performance

	Performance(%)											Inception Date
	1 Quarter	YTD	FYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	
<b>PSERS Total Fund Composite</b>	5.75	-2.94	1.11	1.11	5.62	5.64	7.70	6.11	5.58	7.48	9.43	07/01/1982
<i>Blended Policy (Total Plan)</i>	6.53	-1.61	2.74	2.74	6.26	6.08	7.50	5.94	5.06	N/A	N/A	
Value Added	-0.78	-1.33	-1.63	-1.63	-0.64	-0.44	0.20	0.17	0.52	N/A	N/A	
<b>Total Public Global and Private Equity Exposure (hedged)</b>	4.58	-5.82	0.27	0.27	6.87	7.42	N/A	N/A	N/A	N/A	7.51	10/01/2014
<i>Blended Policy (Total Equity Exposure)</i>	4.69	-5.28	1.13	1.13	7.39	7.82	N/A	N/A	N/A	N/A	7.66	
Value Added	-0.11	-0.54	-0.86	-0.86	-0.52	-0.40	N/A	N/A	N/A	N/A	-0.15	
<b>Total Public Global Equity Composite (hedged)</b>	20.69	-5.66	3.34	3.34	6.48	7.08	10.89	7.83	6.26	N/A	6.93	07/01/1998
<i>Blended Policy (Public Equity) (Hedged)</i>	17.79	-8.76	-0.69	-0.69	4.92	5.81	9.58	6.79	4.89	N/A	5.72	
Value Added	2.90	3.10	4.03	4.03	1.56	1.27	1.31	1.04	1.37	N/A	1.21	
<b>Total Private Equity (hedged)</b>	-10.74	-7.02	-4.18	-4.18	7.40	7.97	9.44	10.30	8.21	N/A	9.65	07/01/1998
<i>Burgiss Private Equity (1Q Lag)</i>	-6.75	-2.66	1.79	1.79	9.79	9.76	11.46	8.94	6.47	N/A	6.25	
Value Added	-3.99	-4.36	-5.97	-5.97	-2.39	-1.79	-2.02	1.36	1.74	N/A	3.40	
<b>Total Fixed Income Exposure</b>	5.06	4.82	7.10	7.10	7.16	6.65	6.93	6.78	7.19	N/A	6.81	07/01/1998
<i>Blended Policy (Total FI)</i>	5.90	5.85	8.70	8.70	6.38	5.70	5.15	5.64	6.12	N/A	5.90	
Value Added	-0.84	-1.03	-1.60	-1.60	0.78	0.95	1.78	1.14	1.07	N/A	0.91	
<b>Investment Grade Composite</b>	2.33	16.12	19.38	19.38	9.00	7.90	N/A	N/A	N/A	N/A	6.97	10/01/2014
<i>Blended Policy (Investment Grade)</i>	1.31	15.06	18.68	18.68	9.81	7.29	5.76	5.74	N/A	N/A	6.52	
Value Added	1.02	1.06	0.70	0.70	-0.81	0.61	N/A	N/A	N/A	N/A	0.45	
<b>Credit-Related (hedged)</b>	11.29	-5.60	-3.11	-3.11	4.68	5.15	N/A	N/A	N/A	N/A	5.18	10/01/2014
<i>Blended Policy (Credit-Related)</i>	9.93	-2.61	0.99	0.99	3.60	4.78	N/A	N/A	N/A	N/A	3.96	
Value Added	1.36	-2.99	-4.10	-4.10	1.08	0.37	N/A	N/A	N/A	N/A	1.22	
<b>Inflation Protected (unlevered)</b>	5.14	3.67	4.64	4.64	4.32	3.82	6.24	6.92	N/A	N/A	6.83	04/01/2004
<i>Blended Policy (Inflation Protected)</i>	5.87	6.54	8.31	8.31	6.11	5.27	4.27	4.51	5.86	N/A	4.53	
Value Added	-0.73	-2.87	-3.67	-3.67	-1.79	-1.45	1.97	2.41	N/A	N/A	2.30	
<b>Private Credit Composite (hedged)</b>	5.22	-6.54	-4.27	-4.27	3.48	4.52	7.08	6.82	7.32	N/A	7.26	10/01/1999
<i>Blended Policy (Private Credit)</i>	10.25	-3.66	-0.19	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	7.07	
Value Added	-5.03	-2.88	-4.08	-4.08	0.23	-0.22	0.42	-0.05	0.04	N/A	0.19	
<b>Total Real Asset Exposure (unlevered/hedged)</b>	5.77	-7.76	-4.71	-4.71	2.38	2.34	N/A	N/A	N/A	N/A	2.11	10/01/2014
<i>Blended Policy (Real Assets) (Hedged)</i>	5.35	-7.57	-4.61	-4.61	2.55	2.41	N/A	N/A	N/A	N/A	2.04	
Value Added	0.42	-0.19	-0.10	-0.10	-0.17	-0.07	N/A	N/A	N/A	N/A	0.07	
<b>Public Real Assets (unlevered/hedged)</b>	13.29	-12.68	-10.70	-10.70	-1.50	-3.73	N/A	N/A	N/A	N/A	-5.72	10/01/2014
<i>Blended Policy (Real Assets x Private) (Hedged)</i>	13.60	-12.35	-9.46	-9.46	-0.99	-2.71	0.40	3.07	N/A	N/A	-4.82	
Value Added	-0.31	-0.33	-1.24	-1.24	-0.51	-1.02	N/A	N/A	N/A	N/A	-0.90	
<b>Private Real Assets</b>	-3.08	-0.37	4.57	4.57	N/A	N/A	N/A	N/A	N/A	N/A	6.31	06/01/2019

The Financing Composite represents leverage, and therefore has a negative asset balance. Due to the negative asset balance, a negative value-added relative to the benchmark represents outperformance, while a positive value added represents underperformance.

## Tier II Composites

As of June 30, 2020

## Trailing Period Performance

	Performance(%)											Inception Date
	1 Quarter	YTD	FYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	
<b>Risk Parity Composite (vol adjusted)</b>	10.65	-4.89	0.14	0.14	4.96	4.39	N/A	N/A	N/A	N/A	3.85	10/01/2012
<i>Blended Policy (Risk Parity)</i>	14.37	4.06	10.51	10.51	8.66	7.37	8.78	7.94	9.05	N/A	5.67	
Value Added	-3.72	-8.95	-10.37	-10.37	-3.70	-2.98	N/A	N/A	N/A	N/A	-1.82	
<b>Total Absolute Return Composite</b>	5.04	-3.26	-0.49	-0.49	2.23	2.38	3.92	N/A	N/A	N/A	4.34	10/01/2005
<i>Blended Policy (Absolute Return)</i>	5.83	-1.54	1.74	1.74	4.39	4.34	5.59	6.38	6.79	7.03	6.36	
Value Added	-0.79	-1.72	-2.23	-2.23	-2.16	-1.96	-1.67	N/A	N/A	N/A	-2.02	
<b>Financing Composite</b>	0.09	0.49	1.44	1.44	N/A	N/A	N/A	N/A	N/A	N/A	1.44	07/01/2019
<i>ICE BofAML USD 3-Mo Deposit Offered Rate Average Index</i>	0.27	0.73	1.86	1.86	2.04	1.50	N/A	N/A	N/A	N/A	1.86	
Value Added	-0.18	-0.24	-0.42	-0.42	N/A	N/A	N/A	N/A	N/A	N/A	-0.42	
<b>Cash &amp; Cash Equivalents</b>	0.24	0.65	1.67	1.67	1.89	1.15	0.75	0.34	0.25	N/A	0.31	07/01/1998
<i>ICE BofAML US Treasury Bills 0-3M</i>	0.02	0.49	1.47	1.47	1.68	1.12	0.59	1.27	1.57	2.29	1.88	
Value Added	0.22	0.16	0.20	0.20	0.21	0.03	0.16	-0.93	-1.32	N/A	-1.57	

The Financing Composite represents leverage, and therefore has a negative asset balance. Due to the negative asset balance, a negative value-added relative to the benchmark represents outperformance, while a positive value added represents underperformance.

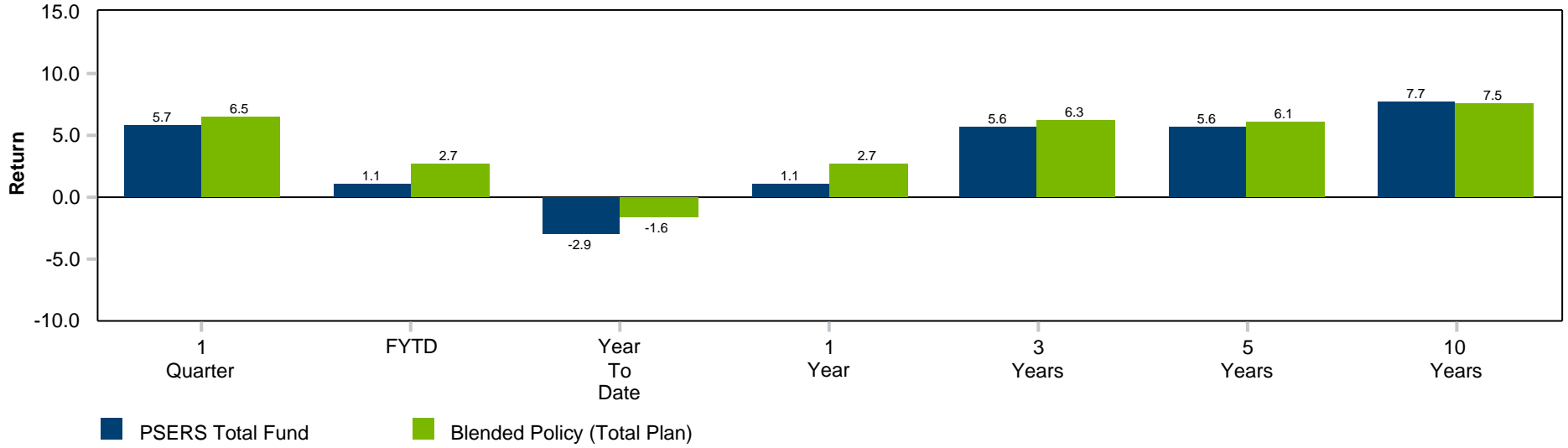
As of June 30, 2020

## Trailing Period Performance

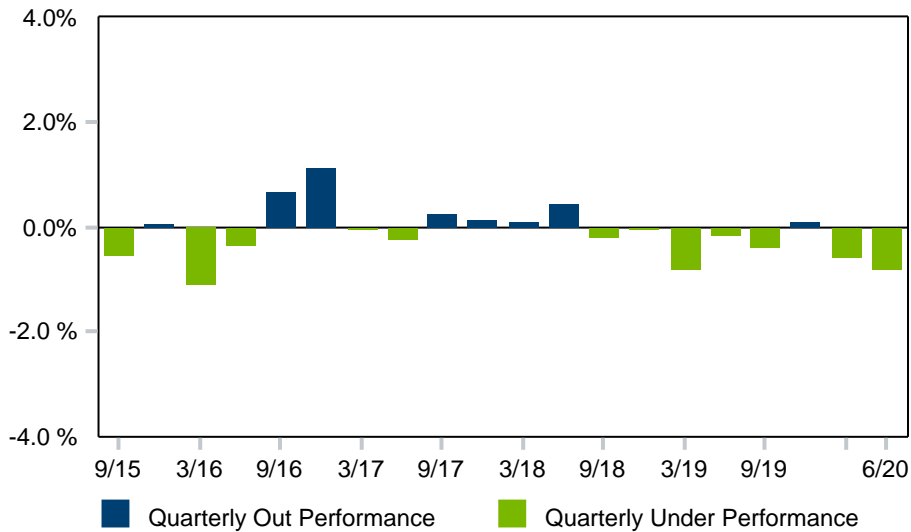
	Performance(%)													
	1 Quarter	2 Quarters	3 Quarters	YTD	FYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
<b>PSERS Total Fund</b>	5.75	-2.94	-0.88	-2.94	1.11	1.11	5.62	5.64	7.70	6.11	5.58	7.48	9.43	07/01/1982
<i>Blended Policy (Total Plan)</i>	6.53	-1.61	0.35	-1.61	2.74	2.74	6.26	6.08	7.50	5.94	5.06	N/A	N/A	
Value Added	-0.78	-1.33	-1.23	-1.33	-1.63	-1.63	-0.64	-0.44	0.20	0.17	0.52	N/A	N/A	

Performance Summary

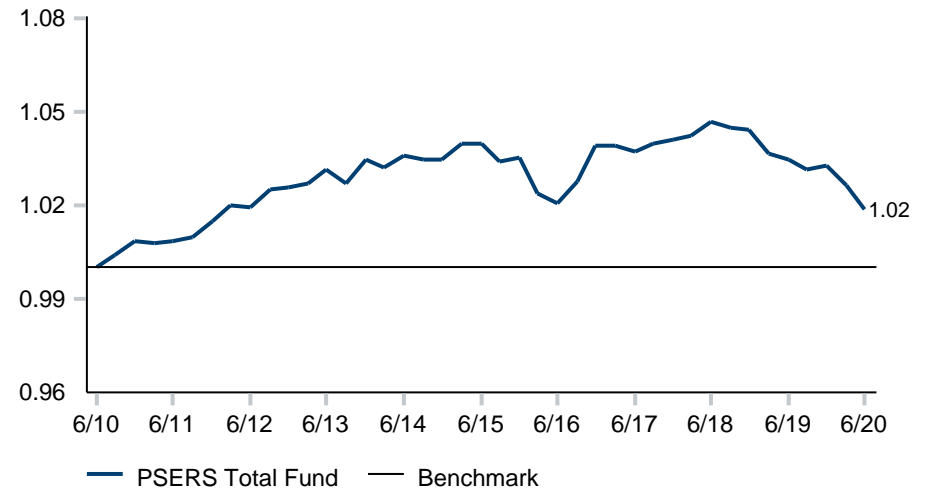
Return Summary



Quarterly Excess Performance



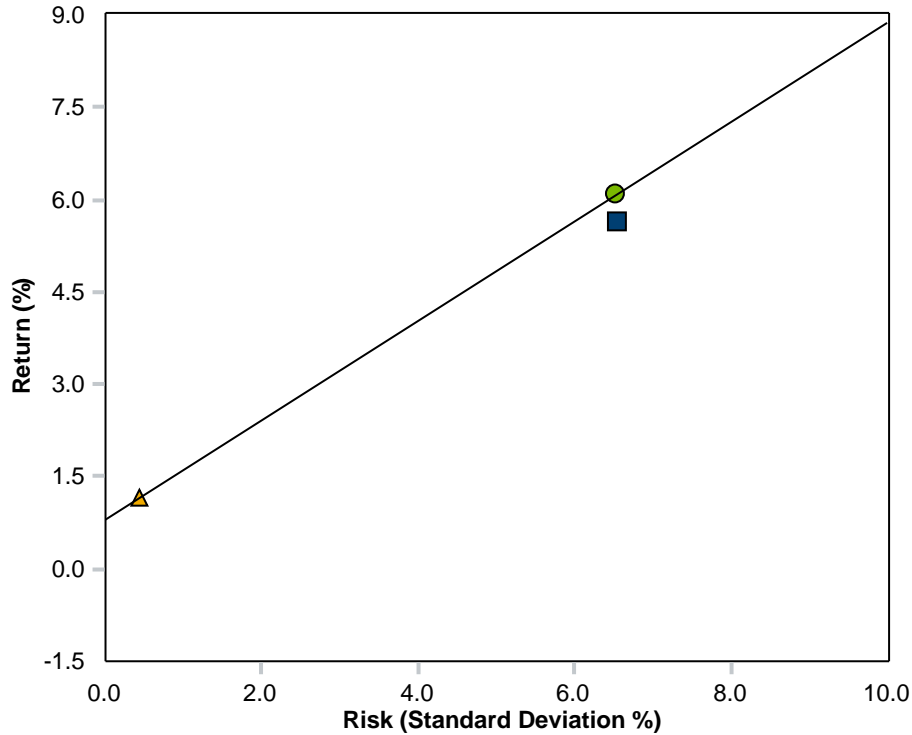
Ratio of Cumulative Wealth - 10 Years





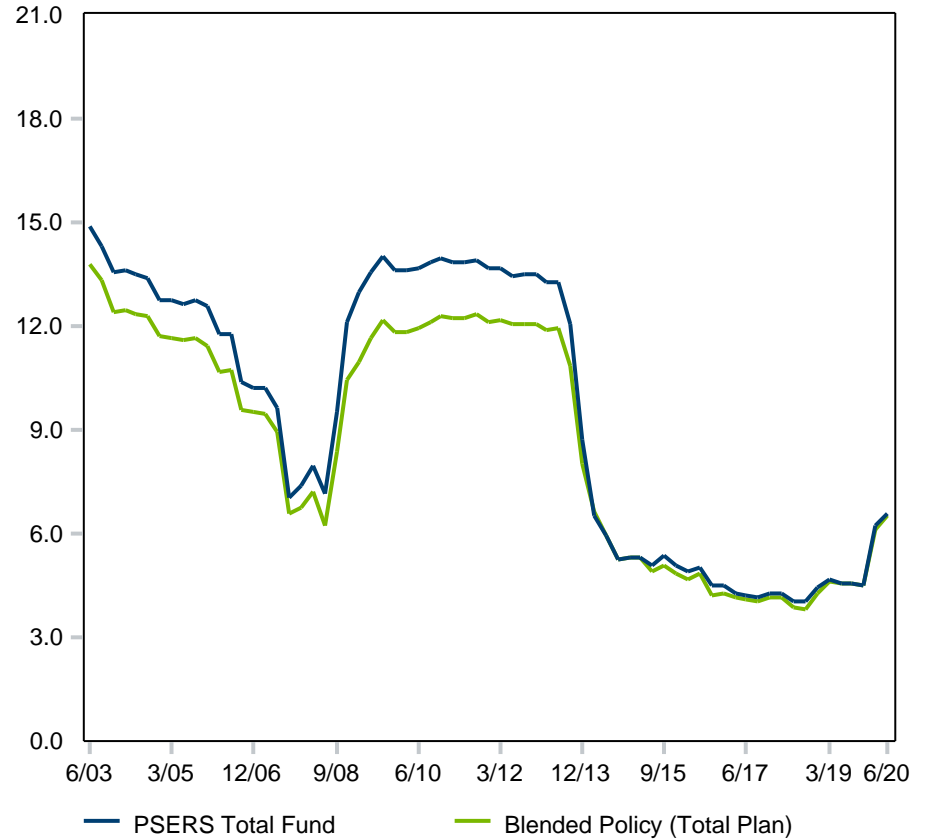
Risk Profile

Annualized Return vs. Annualized Standard Deviation 5 Years



■ PSERS Total Fund      ● Blended Policy (Total Plan)  
 ▲ FTSE 3 Month T-Bill

Rolling 5 Years Standard Deviation



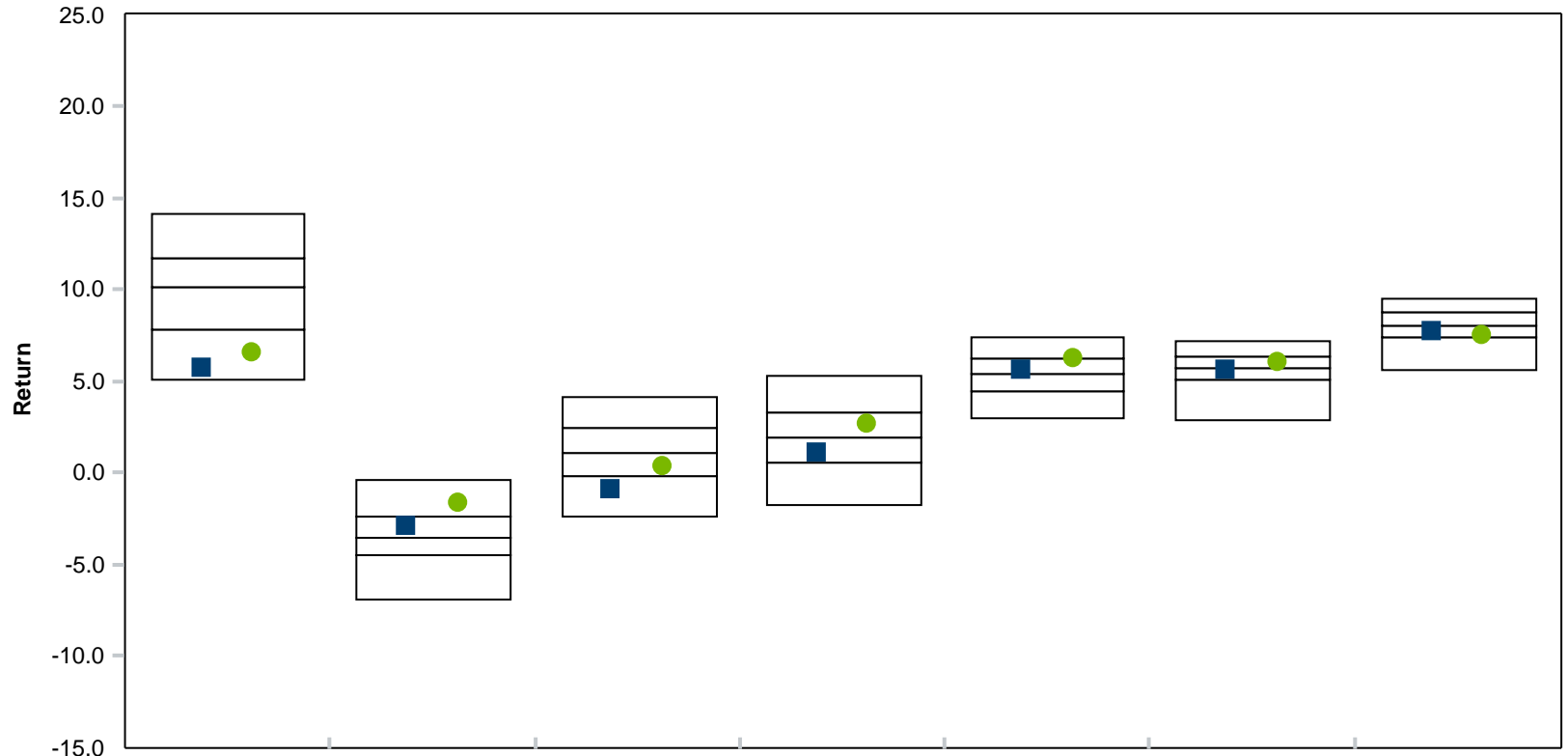
— PSERS Total Fund      — Blended Policy (Total Plan)

5 Years Historical Statistics

	Active Return	Tracking Error	Information Ratio	R-Squared	Sharpe Ratio	Alpha	Beta	Return	Standard Deviation	Actual Correlation
PSERS Total Fund	-0.42	1.06	-0.39	0.97	0.70	-0.35	0.99	5.64	6.55	0.99
Blended Policy (Total Plan)	0.00	0.00	N/A	1.00	0.76	0.00	1.00	6.08	6.54	1.00
FTSE 3 Month T-Bill	-5.00	6.56	-0.76	0.00	N/A	1.16	0.00	1.15	0.43	-0.01

Peer Group Analysis

All Public Plans > \$1B-Total Fund

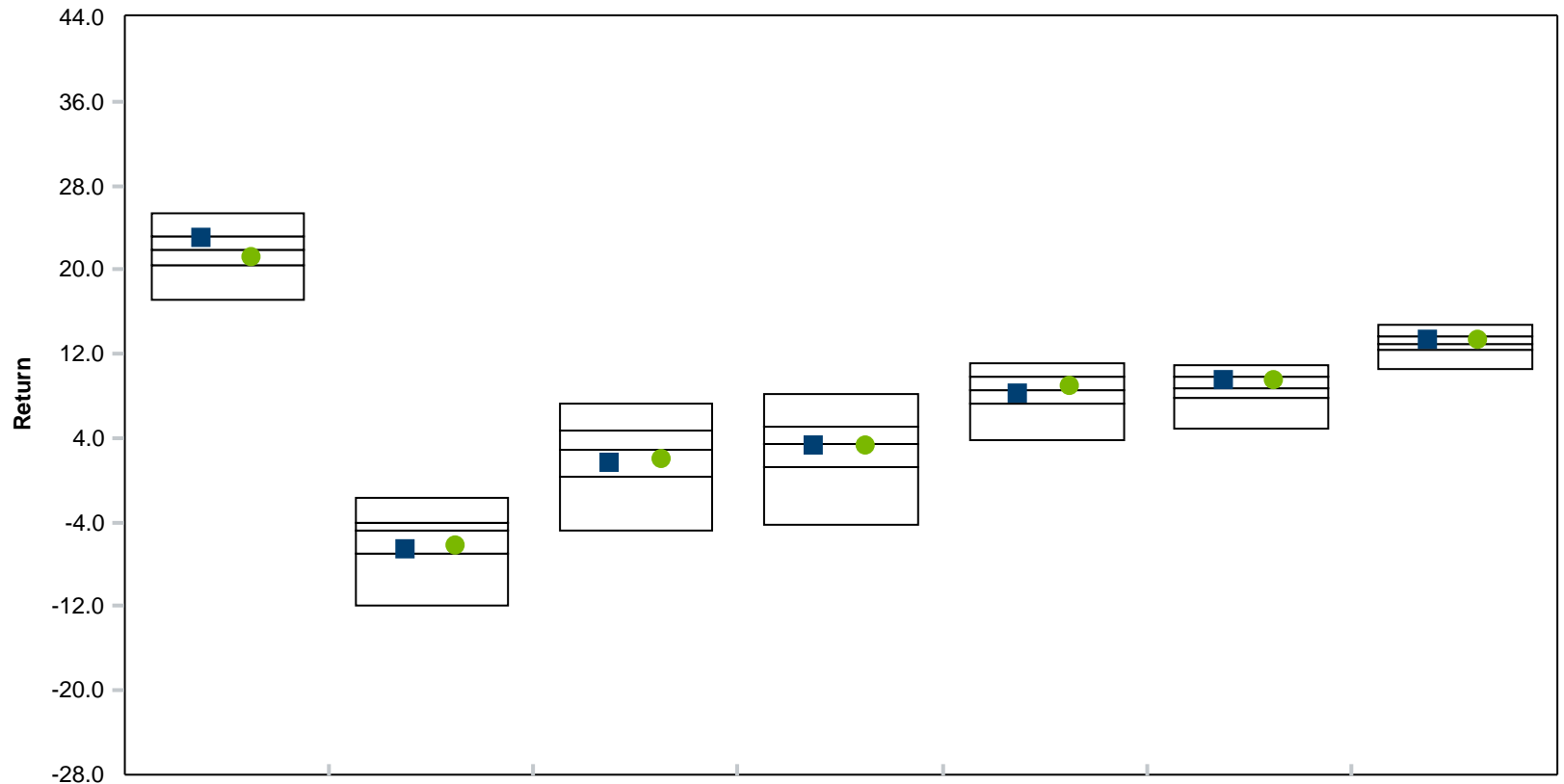


	1 Quarter	2 Quarters Ending Jun-2020	3 Quarters Ending Jun-2020	1 Year	3 Years	5 Years	10 Years
■ PSERS Total Fund	5.75 (92)	-2.94 (34)	-0.88 (88)	1.11 (67)	5.62 (42)	5.64 (54)	7.70 (64)
● Blended Policy (Total Plan)	6.53 (86)	-1.61 (14)	0.35 (71)	2.74 (35)	6.26 (27)	6.08 (40)	7.50 (72)
5th Percentile	14.19	-0.39	4.17	5.34	7.40	7.25	9.54
1st Quartile	11.73	-2.38	2.52	3.34	6.28	6.33	8.79
Median	10.17	-3.56	1.15	1.91	5.40	5.78	8.10
3rd Quartile	7.83	-4.51	-0.17	0.54	4.50	5.10	7.46
95th Percentile	5.11	-6.88	-2.40	-1.73	2.95	2.86	5.63
Population	172	171	171	171	169	166	157

Parentheses contain percentile rankings.

Plan Sponsor Peer Group Analysis

All Public Plans > \$1B-US Equity Segment

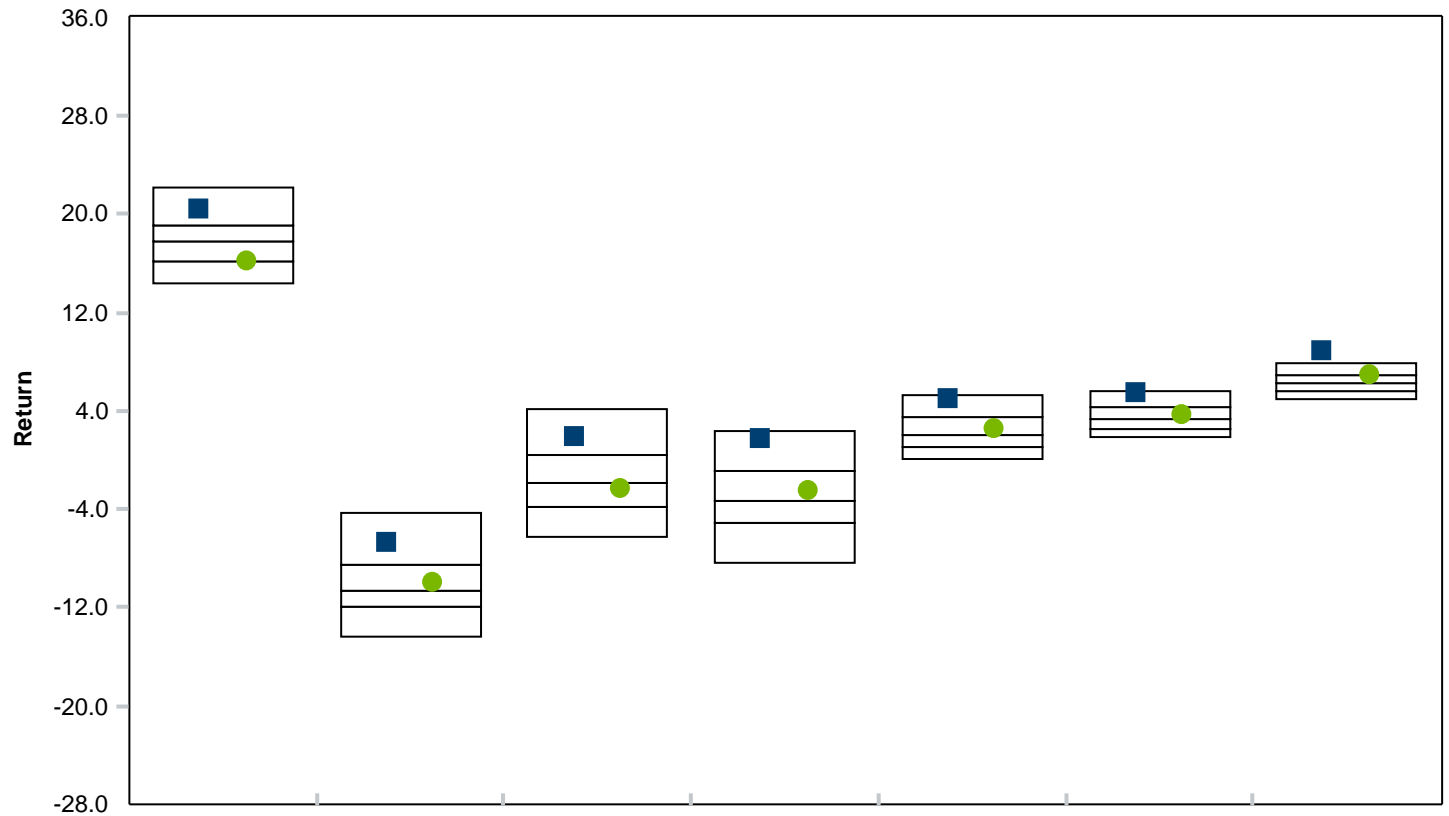


	1 Quarter	2 Quarters	3 Quarters	1 Year	3 Years	5 Years	10 Years
■ Total US Equity Composite	23.06 (27)	-6.70 (72)	1.64 (67)	3.23 (52)	8.27 (54)	9.47 (28)	13.37 (32)
● Blended Policy (Tot US Eq)	21.16 (66)	-6.19 (65)	1.99 (61)	3.25 (52)	8.94 (40)	9.38 (29)	13.35 (33)
5th Percentile	25.27	-1.75	7.33	8.15	11.06	11.01	14.81
1st Quartile	23.19	-3.98	4.67	5.16	9.83	9.77	13.63
Median	21.87	-4.87	2.82	3.38	8.47	8.69	12.99
3rd Quartile	20.49	-6.89	0.31	1.32	7.35	7.74	12.41
95th Percentile	17.23	-11.94	-4.73	-4.29	3.75	4.83	10.52
Population	53	53	52	52	48	46	31

Parentheses contain percentile rankings.

Plan Sponsor Peer Group Analysis

All Public Plans > \$1B-Intl. Equity Segment

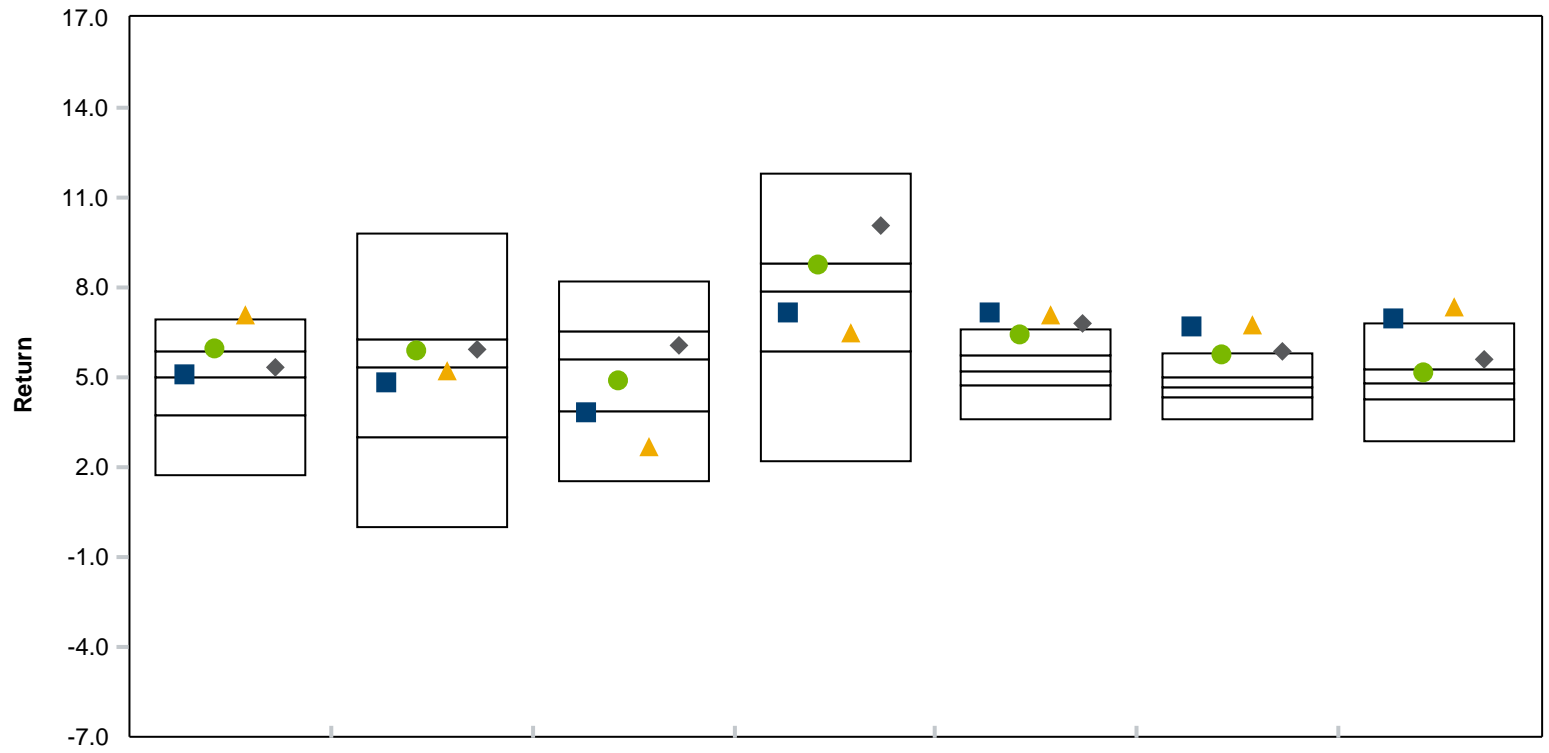


	1 Quarter	2 Quarters	3 Quarters	1 Year	3 Years	5 Years	10 Years
■ Total Non-U.S. Equity Composite (hedged)	20.46 (11)	-6.75 (13)	1.93 (16)	1.77 (7)	4.94 (8)	5.45 (6)	8.92 (2)
● Blended Policy (Total Non-US Eq) (Hedged)	16.23 (76)	-9.97 (44)	-2.37 (56)	-2.53 (42)	2.60 (38)	3.67 (38)	6.89 (26)
5th Percentile	22.22	-4.22	4.24	2.33	5.37	5.61	7.87
1st Quartile	19.19	-8.55	0.40	-0.90	3.51	4.40	6.90
Median	17.81	-10.58	-1.91	-3.30	2.08	3.30	6.34
3rd Quartile	16.24	-11.97	-3.74	-5.09	1.15	2.52	5.62
95th Percentile	14.31	-14.28	-6.24	-8.39	0.05	1.81	4.93
Population	57	56	55	54	52	50	32

Parentheses contain percentile rankings.

Plan Sponsor Peer Group Analysis

All Public Plans > \$1B-US Fixed Income Segment

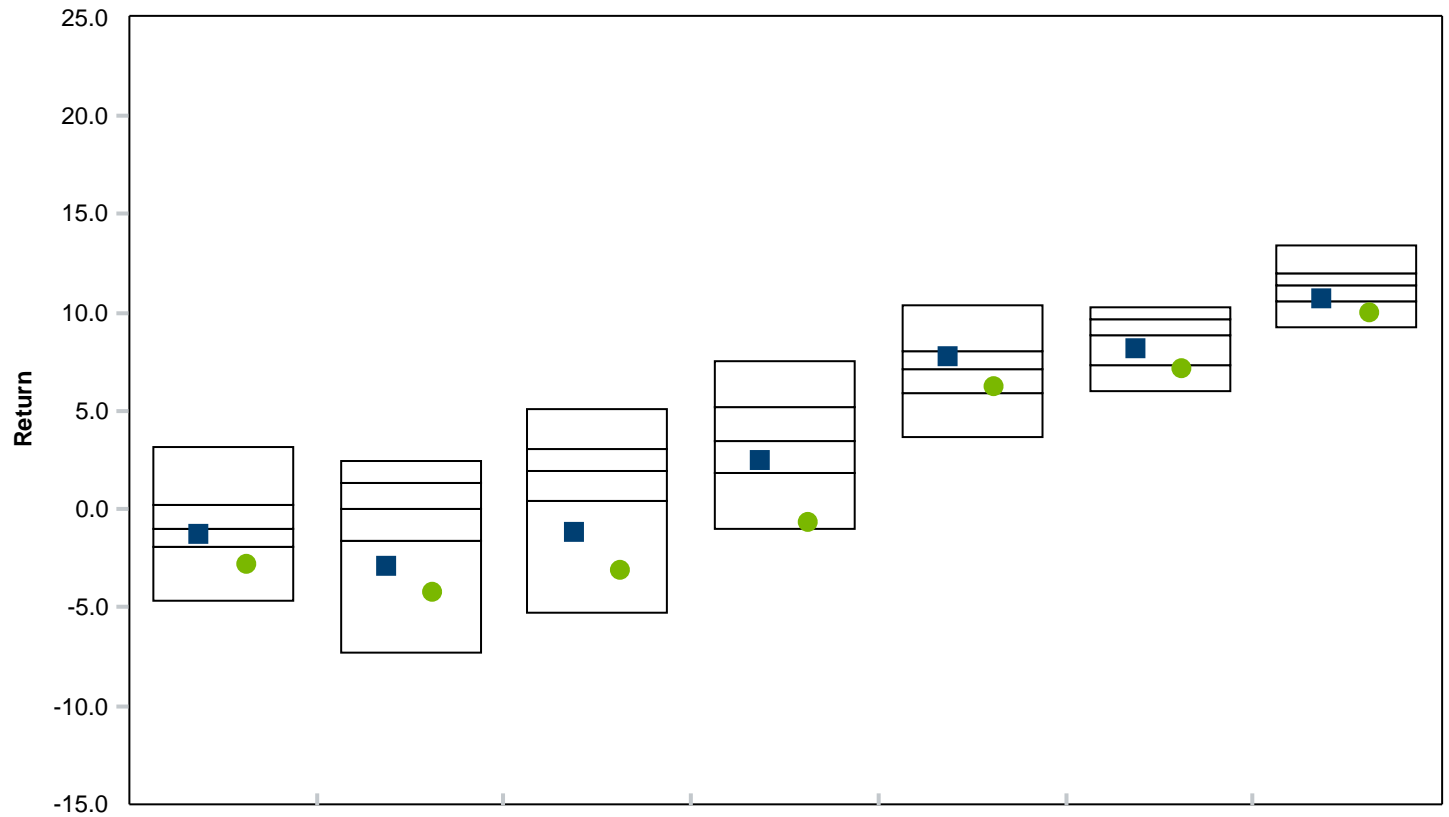


	1 Quarter	2 Quarters	3 Quarters	1 Year	3 Years	5 Years	10 Years
■ Total Fixed Income Exposure	5.06 (48)	4.82 (60)	3.83 (77)	7.10 (64)	7.16 (3)	6.65 (1)	6.93 (1)
● Blended Policy (Total FI)	5.90 (25)	5.85 (33)	4.89 (67)	8.70 (27)	6.38 (9)	5.70 (6)	5.15 (31)
▲ Total US Fixed Income Composite	7.10 (4)	5.23 (53)	2.65 (89)	6.46 (71)	7.07 (3)	6.72 (1)	7.36 (1)
◆ Blended Policy (Total US FI)	5.35 (45)	5.93 (32)	6.06 (31)	10.03 (11)	6.83 (4)	5.90 (5)	5.60 (17)
5th Percentile	6.92	9.80	8.22	11.79	6.60	5.77	6.82
1st Quartile	5.88	6.25	6.52	8.79	5.71	5.02	5.26
Median	4.99	5.31	5.61	7.85	5.20	4.68	4.79
3rd Quartile	3.71	2.99	3.88	5.89	4.73	4.31	4.25
95th Percentile	1.71	-0.03	1.50	2.19	3.60	3.59	2.86
Population	56	56	55	55	50	49	33

Parentheses contain percentile rankings.

Plan Sponsor Peer Group Analysis

All Public Plans > \$1B-Real Estate Segment



	1 Quarter	2 Quarters	3 Quarters	1 Year	3 Years	5 Years	10 Years
■ Total Real Estate (unlevered/hedged)	-1.32 (66)	-2.90 (83)	-1.20 (82)	2.43 (72)	7.78 (41)	8.12 (68)	10.68 (75)
● Blended Policy (Total Real Estate) (Hedged)	-2.84 (85)	-4.23 (85)	-3.14 (87)	-0.73 (95)	6.17 (72)	7.10 (86)	9.93 (82)
5th Percentile	3.13	2.47	5.07	7.51	10.34	10.32	13.42
1st Quartile	0.27	1.37	3.04	5.20	8.07	9.66	11.97
Median	-0.95	0.00	1.98	3.47	7.12	8.89	11.36
3rd Quartile	-1.93	-1.60	0.46	1.82	5.91	7.36	10.60
95th Percentile	-4.62	-7.31	-5.27	-1.02	3.66	6.01	9.30
Population	40	38	35	32	26	20	11

Parentheses contain percentile rankings.

## Tier III Composites

As of June 30, 2020

## Trailing Period Performance

	Performance(%)											Inception Date
	1 Quarter	YTD	FYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	
<b>PSERS Total Fund Composite</b>	5.75	-2.94	1.11	1.11	5.62	5.64	7.70	6.11	5.58	7.48	9.43	07/01/1982
<i>Blended Policy (Total Plan)</i>	6.53	-1.61	2.74	2.74	6.26	6.08	7.50	5.94	5.06	N/A	N/A	
Value Added	-0.78	-1.33	-1.63	-1.63	-0.64	-0.44	0.20	0.17	0.52	N/A	N/A	
<b>Total Public Global and Private Equity Exposure (hedged)</b>	4.58	-5.82	0.27	0.27	6.87	7.42	N/A	N/A	N/A	N/A	7.51	10/01/2014
<i>Blended Policy (Total Equity Exposure)</i>	4.69	-5.28	1.13	1.13	7.39	7.82	N/A	N/A	N/A	N/A	7.66	
Value Added	-0.11	-0.54	-0.86	-0.86	-0.52	-0.40	N/A	N/A	N/A	N/A	-0.15	
<b>Total Public Global Equity Composite (hedged)</b>	20.69	-5.66	3.34	3.34	6.48	7.08	10.89	7.83	6.26	N/A	6.93	07/01/1998
<i>Blended Policy (Public Equity) (Hedged)</i>	17.79	-8.76	-0.69	-0.69	4.92	5.81	9.58	6.79	4.89	N/A	5.72	
Value Added	2.90	3.10	4.03	4.03	1.56	1.27	1.31	1.04	1.37	N/A	1.21	
<b>Total US Equity Composite</b>	23.06	-6.70	3.23	3.23	8.27	9.47	13.37	8.35	6.58	N/A	6.55	01/01/2000
<i>Blended Policy (Tot US Eq)</i>	21.16	-6.19	3.25	3.25	8.94	9.38	13.35	8.57	6.02	N/A	5.83	
Value Added	1.90	-0.51	-0.02	-0.02	-0.67	0.09	0.02	-0.22	0.56	N/A	0.72	
<b>Total Non-U.S. Equity x Emerging Markets Composite (hedged)</b>	19.70	-7.73	0.91	0.91	4.78	5.43	N/A	N/A	N/A	N/A	8.07	04/01/2014
<i>Blended Policy (Non-US Equity x EM) (Hedged)</i>	15.72	-10.01	-2.86	-2.86	2.50	3.61	7.02	6.07	4.72	N/A	4.80	
Value Added	3.98	2.28	3.77	3.77	2.28	1.82	N/A	N/A	N/A	N/A	3.27	
<b>Emerging Markets Equity Composite</b>	26.77	1.46	8.84	8.84	4.50	3.16	1.19	4.32	5.23	N/A	6.09	07/01/1998
<i>Blended Policy (EM)</i>	18.93	-10.09	-3.97	-3.97	1.44	2.58	3.13	6.30	6.64	N/A	7.69	
Value Added	7.84	11.55	12.81	12.81	3.06	0.58	-1.94	-1.98	-1.41	N/A	-1.60	
<b>Total Private Equity (hedged)</b>	-10.74	-7.02	-4.18	-4.18	7.40	7.97	9.44	10.30	8.21	N/A	9.65	07/01/1998
<i>Burgiss Private Equity (1Q Lag)</i>	-6.75	-2.66	1.79	1.79	9.79	9.76	11.46	8.94	6.47	N/A	6.25	
Value Added	-3.99	-4.36	-5.97	-5.97	-2.39	-1.79	-2.02	1.36	1.74	N/A	3.40	
<b>Total Fixed Income Exposure</b>	5.06	4.82	7.10	7.10	7.16	6.65	6.93	6.78	7.19	N/A	6.81	07/01/1998
<i>Blended Policy (Total FI)</i>	5.90	5.85	8.70	8.70	6.38	5.70	5.15	5.64	6.12	N/A	5.90	
Value Added	-0.84	-1.03	-1.60	-1.60	0.78	0.95	1.78	1.14	1.07	N/A	0.91	
<b>Investment Grade Composite</b>	2.33	16.12	19.38	19.38	9.00	7.90	N/A	N/A	N/A	N/A	6.97	10/01/2014
<i>Blended Policy (Investment Grade)</i>	1.31	15.06	18.68	18.68	9.81	7.29	5.76	5.74	N/A	N/A	6.52	
Value Added	1.02	1.06	0.70	0.70	-0.81	0.61	N/A	N/A	N/A	N/A	0.45	
<b>US Core Plus Fixed Income Composite</b>	6.38	6.17	8.34	8.34	5.56	5.26	5.16	5.22	N/A	N/A	5.25	10/01/2004
<i>Blended Policy (Barclays Aggregate Index)</i>	2.90	6.14	8.74	8.74	5.32	4.30	3.82	4.40	5.19	5.43	4.43	
Value Added	3.48	0.03	-0.40	-0.40	0.24	0.96	1.34	0.82	N/A	N/A	0.82	
<b>Non-U.S. Developed Markets Fixed Income Composite</b>	0.54	0.75	1.94	1.94	1.91	3.13	2.08	3.39	4.62	N/A	4.32	07/01/1998
<i>Blended Policy (Barclays GlobalAgg GDP Weighted Dev xUS hedged)</i>	2.48	2.90	4.71	4.71	5.25	4.67	2.86	3.61	N/A	N/A	N/A	
Value Added	-1.94	-2.15	-2.77	-2.77	-3.34	-1.54	-0.78	-0.22	N/A	N/A	N/A	

The Financing Composite represents leverage, and therefore has a negative asset balance. Due to the negative asset balance, a negative value-added relative to the benchmark represents outperformance, while a positive value added represents underperformance.

## Tier III Composites

As of June 30, 2020

## Trailing Period Performance

	Performance(%)											
	1 Quarter	YTD	FYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
U.S. Treasuries Total (unlevered)	-0.54	20.84	25.06	25.06	10.05	7.76	N/A	N/A	N/A	N/A	4.75	07/01/2012
<i>Blmbg. Barc. U.S. Treasury: Long</i>	0.25	21.20	25.40	25.40	12.04	9.26	7.74	7.19	7.86	7.77	6.15	
Value Added	-0.79	-0.36	-0.34	-0.34	-1.99	-1.50	N/A	N/A	N/A	N/A	-1.40	
Credit-Related (hedged)	11.29	-5.60	-3.11	-3.11	4.68	5.15	N/A	N/A	N/A	N/A	5.18	10/01/2014
<i>Blended Policy (Credit-Related)</i>	9.93	-2.61	0.99	0.99	3.60	4.78	N/A	N/A	N/A	N/A	3.96	
Value Added	1.36	-2.99	-4.10	-4.10	1.08	0.37	N/A	N/A	N/A	N/A	1.22	
Emerging Markets Fixed Income Composite	11.29	-5.60	-3.11	-3.11	3.34	4.16	3.86	N/A	N/A	N/A	3.75	04/01/2010
<i>Blended Policy (EM FI)</i>	9.93	-2.61	0.17	0.17	2.38	2.97	2.69	5.42	N/A	N/A	2.42	
Value Added	1.36	-2.99	-3.28	-3.28	0.96	1.19	1.17	N/A	N/A	N/A	1.33	
Inflation Protected (unlevered)	5.14	3.67	4.64	4.64	4.32	3.82	6.24	6.92	N/A	N/A	6.83	04/01/2004
<i>Blended Policy (Inflation Protected)</i>	5.87	6.54	8.31	8.31	6.11	5.27	4.27	4.51	5.86	N/A	4.53	
Value Added	-0.73	-2.87	-3.67	-3.67	-1.79	-1.45	1.97	2.41	N/A	N/A	2.30	
U.S. Inflation Protected (unlevered)	4.06	6.00	8.22	8.22	4.73	3.91	4.34	5.11	N/A	N/A	5.14	03/01/2004
<i>Blended Policy (U.S. Inflation Protected)</i>	4.36	6.37	8.60	8.60	5.15	3.81	3.55	4.03	5.49	N/A	4.16	
Value Added	-0.30	-0.37	-0.38	-0.38	-0.42	0.10	0.79	1.08	N/A	N/A	0.98	
Non-U.S. Inflation Protected (unlevered)	6.16	1.13	0.93	0.93	3.93	3.82	N/A	N/A	N/A	N/A	2.98	02/01/2015
<i>Blmbg Barc World ex U.S. ILB Index (H\$)</i>	7.39	6.66	7.27	7.27	6.50	6.58	5.87	5.44	5.50	N/A	5.31	
Value Added	-1.23	-5.53	-6.34	-6.34	-2.57	-2.76	N/A	N/A	N/A	N/A	-2.33	
Private Credit Composite (hedged)	5.22	-6.54	-4.27	-4.27	3.48	4.52	7.08	6.82	7.32	N/A	7.26	10/01/1999
<i>Blended Policy (Private Credit)</i>	10.25	-3.66	-0.19	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	7.07	
Value Added	-5.03	-2.88	-4.08	-4.08	0.23	-0.22	0.42	-0.05	0.04	N/A	0.19	
Total Real Asset Exposure (unlevered/hedged)	5.77	-7.76	-4.71	-4.71	2.38	2.34	N/A	N/A	N/A	N/A	2.11	10/01/2014
<i>Blended Policy (Real Assets) (Hedged)</i>	5.35	-7.57	-4.61	-4.61	2.55	2.41	N/A	N/A	N/A	N/A	2.04	
Value Added	0.42	-0.19	-0.10	-0.10	-0.17	-0.07	N/A	N/A	N/A	N/A	0.07	
Public Real Assets (unlevered/hedged)	13.29	-12.68	-10.70	-10.70	-1.50	-3.73	N/A	N/A	N/A	N/A	-5.72	10/01/2014
<i>Blended Policy (Real Assets x Private) (Hedged)</i>	13.60	-12.35	-9.46	-9.46	-0.99	-2.71	0.40	3.07	N/A	N/A	-4.82	
Value Added	-0.31	-0.33	-1.24	-1.24	-0.51	-1.02	N/A	N/A	N/A	N/A	-0.90	
Public Commodities Composite (unlevered)	10.96	-2.41	2.13	2.13	6.17	2.65	0.76	N/A	N/A	N/A	0.07	11/01/2006
<i>Blended Policy (Commodities)</i>	7.72	-6.78	-2.68	-2.68	0.67	-1.84	-2.37	N/A	N/A	N/A	-3.25	
Value Added	3.24	4.37	4.81	4.81	5.50	4.49	3.13	N/A	N/A	N/A	3.32	
Public Infrastructure (unlevered/hedged)	19.48	-24.90	-25.97	-25.97	-7.48	N/A	N/A	N/A	N/A	N/A	-0.95	11/01/2015
<i>Blended Policy (Infrastructure x Private Hedged)</i>	22.82	-21.75	-21.23	-21.23	-5.20	1.05	7.03	N/A	N/A	N/A	0.45	
Value Added	-3.34	-3.15	-4.74	-4.74	-2.28	N/A	N/A	N/A	N/A	N/A	-1.40	

The Financing Composite represents leverage, and therefore has a negative asset balance. Due to the negative asset balance, a negative value-added relative to the benchmark represents outperformance, while a positive value added represents underperformance.



## Tier III Composites

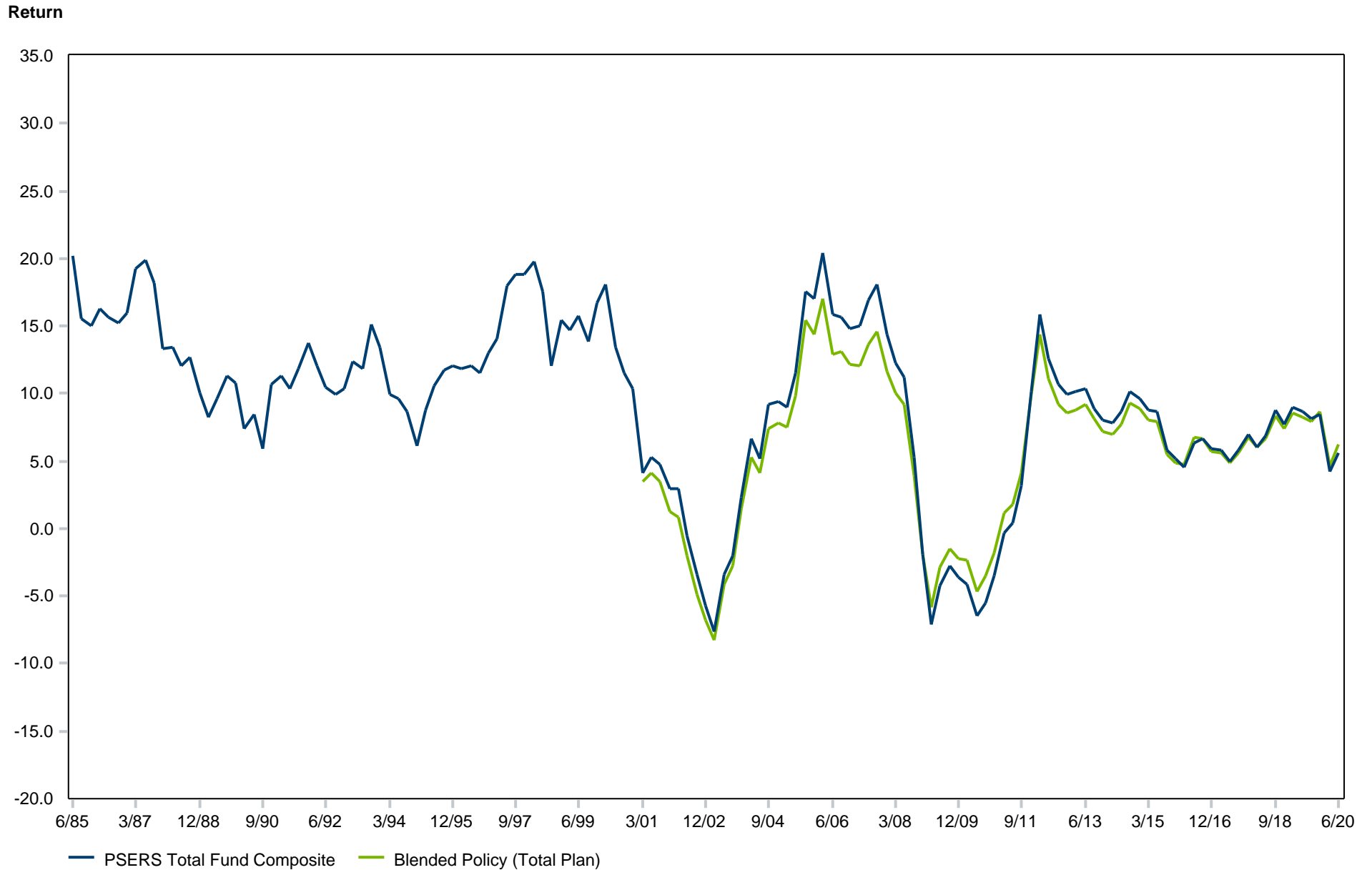
As of June 30, 2020

## Trailing Period Performance

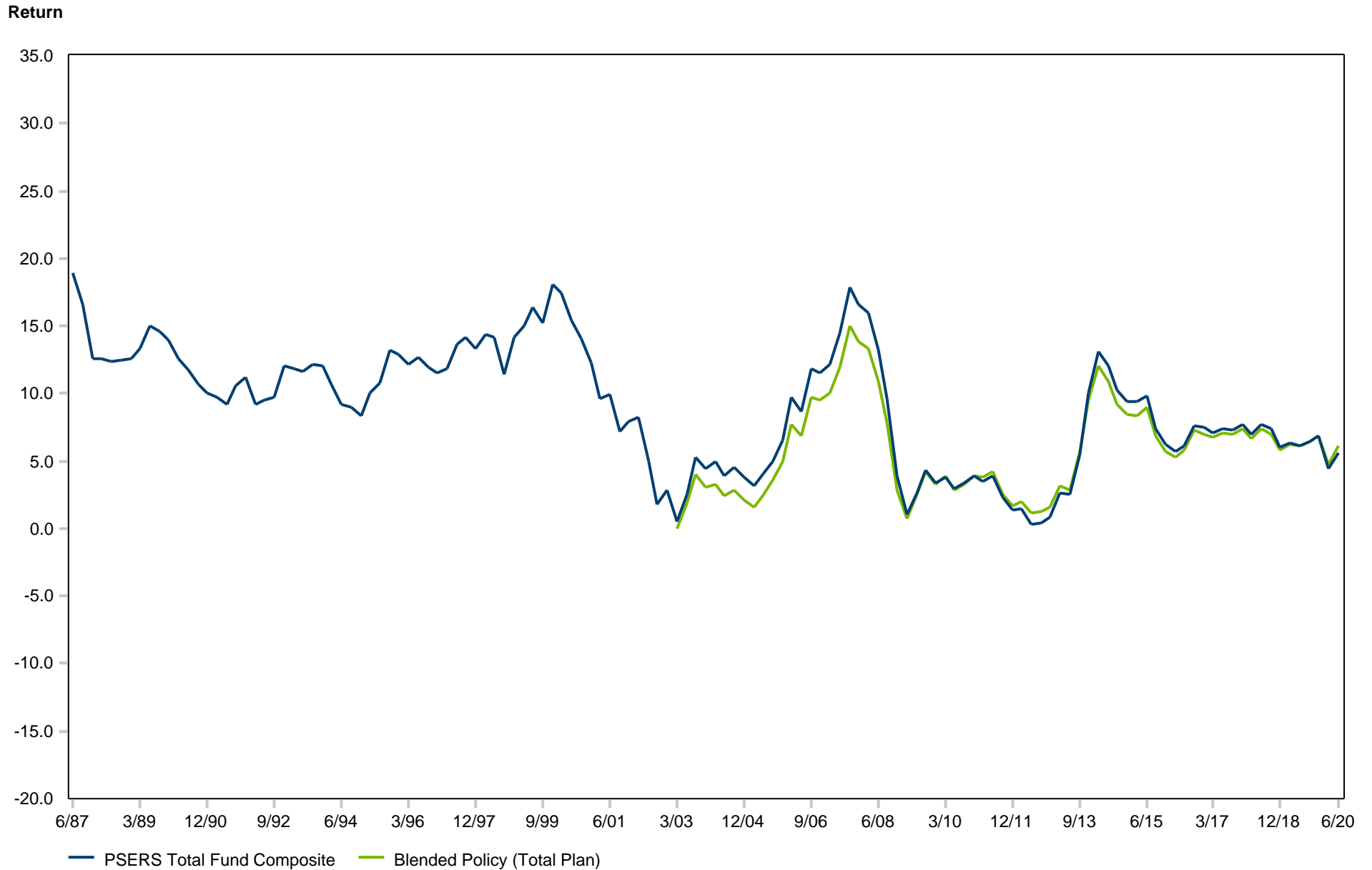
	Performance(%)											
	1 Quarter	YTD	FYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
Public Real Estate Composite (unlevered/hedged)	8.28	-23.47	-18.36	-18.36	-1.38	1.94	5.55	4.53	8.50	N/A	7.58	07/01/1997
Blended Policy (PTRES) (Hedged)	9.15	-20.51	-15.02	-15.02	-0.47	1.93	6.49	4.15	7.97	N/A	N/A	
Value Added	-0.87	-2.96	-3.34	-3.34	-0.91	0.01	-0.94	0.38	0.53	N/A	N/A	
Private Real Assets	-3.08	-0.37	4.57	4.57	N/A	N/A	N/A	N/A	N/A	N/A	4.57	07/01/2019
Private Commodities Composite	-15.77	-18.49	-22.40	-22.40	N/A	N/A	N/A	N/A	N/A	N/A	-17.71	10/01/2018
Private Infrastructure Composite	-3.86	0.24	3.42	3.42	11.20	N/A	N/A	N/A	N/A	N/A	10.67	05/01/2017
FTSE Developed Core Infrastructure 50/50 Hedged 1Q Lag	-19.19	-17.59	-11.08	-11.08	2.27	3.96	8.37	N/A	N/A	N/A	4.19	
Value Added	15.33	17.83	14.50	14.50	8.93	N/A	N/A	N/A	N/A	N/A	6.48	
Private Real Estate Composite	-2.56	0.24	5.58	5.58	9.09	9.09	11.31	6.78	8.40	N/A	9.21	07/01/1996
Blended Policy (Private Real Estate)	-3.48	-0.47	2.59	2.59	7.63	8.07	10.44	8.31	8.77	9.39	9.45	
Value Added	0.92	0.71	2.99	2.99	1.46	1.02	0.87	-1.53	-0.37	N/A	-0.24	
Risk Parity Composite (vol adjusted)	10.65	-4.89	0.14	0.14	4.96	4.39	N/A	N/A	N/A	N/A	3.85	10/01/2012
Blended Policy (Risk Parity)	14.37	4.06	10.51	10.51	8.66	7.37	8.78	7.94	9.05	N/A	5.67	
Value Added	-3.72	-8.95	-10.37	-10.37	-3.70	-2.98	N/A	N/A	N/A	N/A	-1.82	
Total Absolute Return Composite	5.04	-3.26	-0.49	-0.49	2.23	2.38	3.92	N/A	N/A	N/A	4.34	10/01/2005
Blended Policy (Absolute Return)	5.83	-1.54	1.74	1.74	4.39	4.34	5.59	6.38	6.79	7.03	6.36	
Value Added	-0.79	-1.72	-2.23	-2.23	-2.16	-1.96	-1.67	N/A	N/A	N/A	-2.02	
Financing Composite	0.09	0.49	1.44	1.44	N/A	N/A	N/A	N/A	N/A	N/A	1.44	07/01/2019
ICE BofAML USD 3-Mo Deposit Offered Rate Average Index	0.27	0.73	1.86	1.86	2.04	1.50	N/A	N/A	N/A	N/A	1.86	
Value Added	-0.18	-0.24	-0.42	-0.42	N/A	N/A	N/A	N/A	N/A	N/A	-0.42	
Cash & Cash Equivalents	0.24	0.65	1.67	1.67	1.89	1.15	0.75	0.34	0.25	N/A	0.31	07/01/1998
ICE BofAML US Treasury Bills 0-3M	0.02	0.49	1.47	1.47	1.68	1.12	0.59	1.27	1.57	2.29	1.88	
Value Added	0.22	0.16	0.20	0.20	0.21	0.03	0.16	-0.93	-1.32	N/A	-1.57	

The Financing Composite represents leverage, and therefore has a negative asset balance. Due to the negative asset balance, a negative value-added relative to the benchmark represents outperformance, while a positive value added represents underperformance.

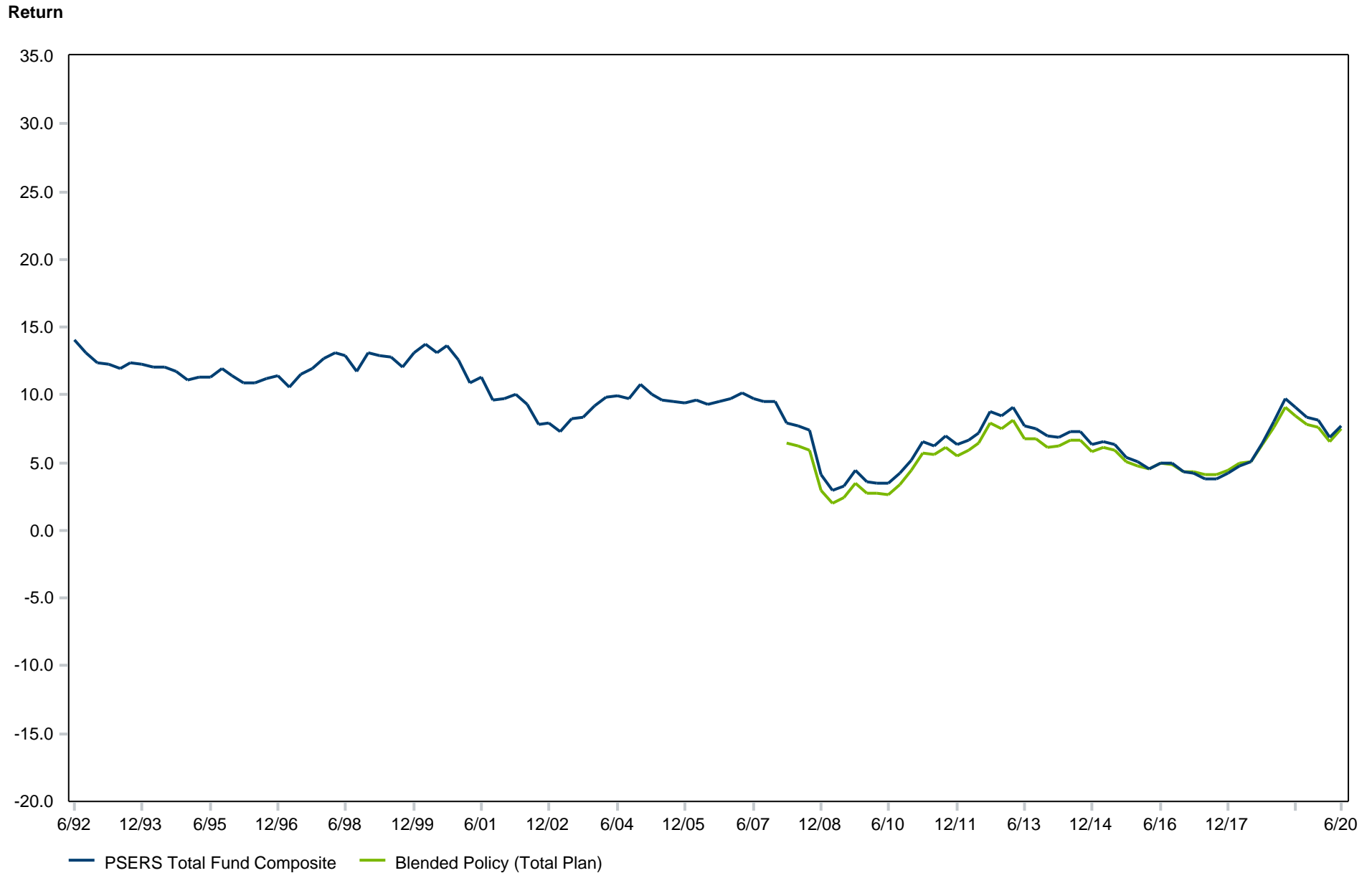
3-Year Rolling Returns



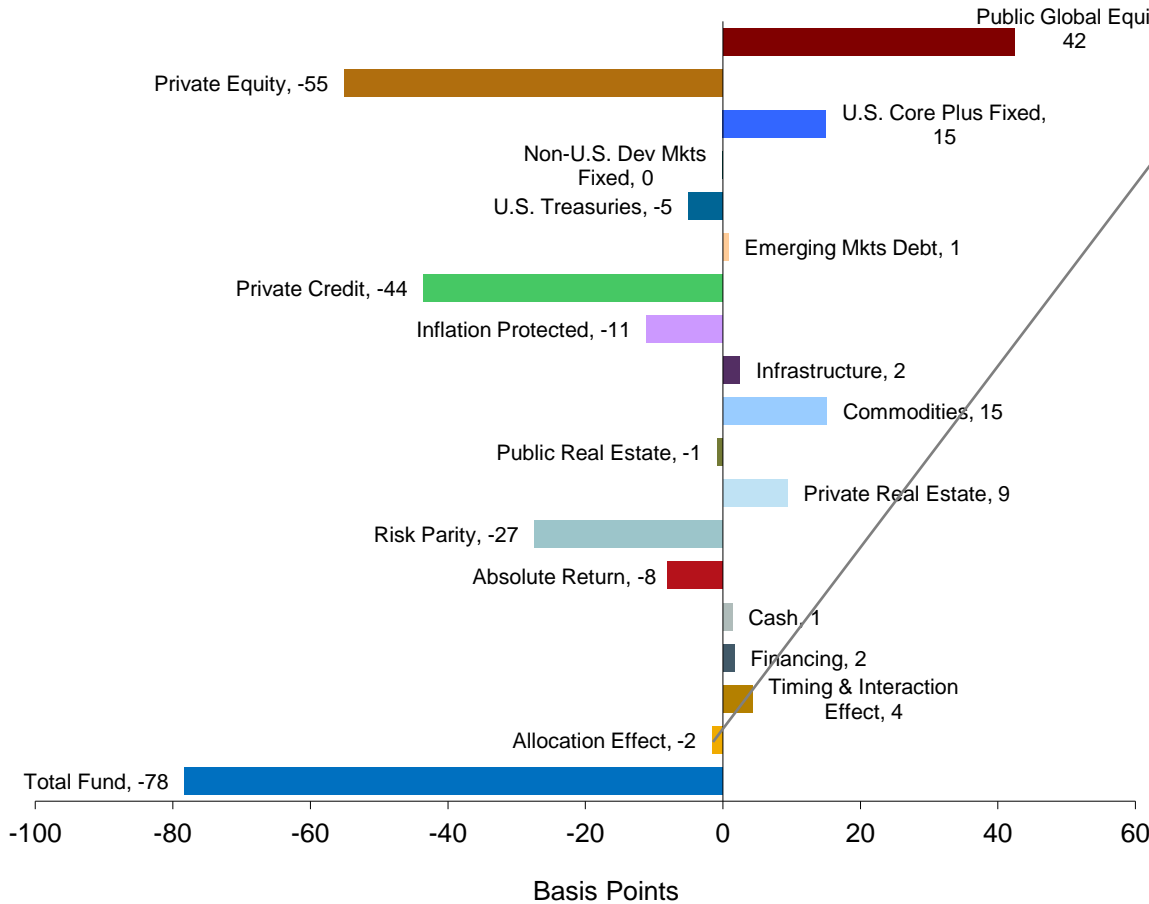
5-Year Rolling Returns



10-Year Rolling Returns



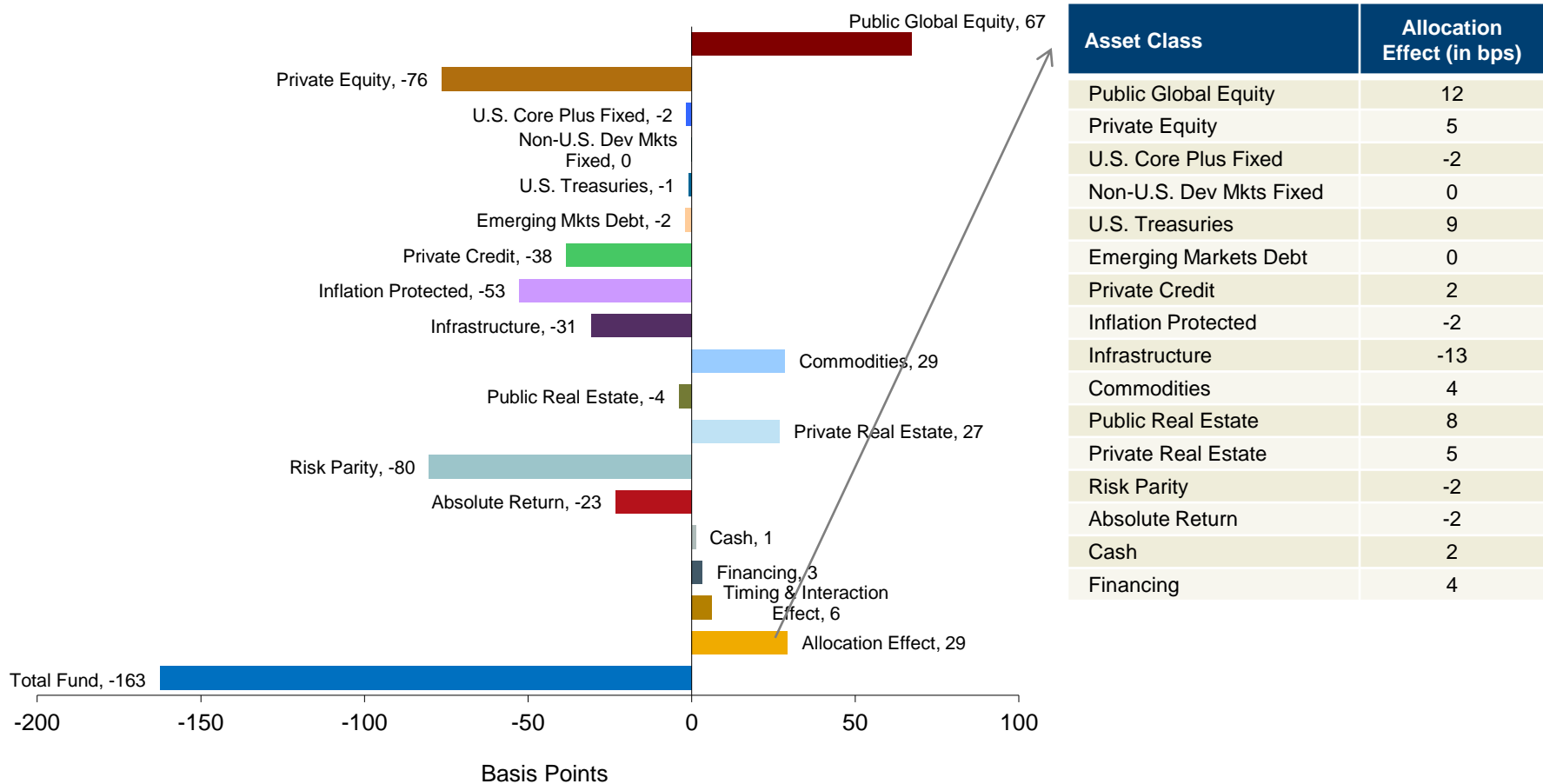
Performance Attribution – Total Fund



Asset Class	Allocation Effect (in bps)
Public Global Equity	18
Private Equity	5
U.S. Core Plus Fixed	-1
Non-U.S. Dev Mkts Fixed	0
U.S. Treasuries	0
Emerging Markets Debt	-1
Private Credit	-4
Inflation Protected	0
Infrastructure	-26
Commodities	0
Public Real Estate	1
Private Real Estate	5
Risk Parity	-2
Absolute Return	0
Cash	1
Financing	2

- The Selection Effect (shown by each composite bar above) represents the impact each composite had on Total Fund performance, based on its weight in the asset class and its performance relative to its blended asset class policy benchmark.
- The Allocation Effect represents the favorable or unfavorable impact of being over or under weight to each asset class relative to policy targets.
- The Timing & Interaction Effect captures the impact of intra-month cash flows on Total Fund return.

Performance Attribution – Total Fund



- The Selection Effect (shown by each composite bar above) represents the impact each composite had on Total Fund performance, based on its weight in the asset class and its performance relative to its blended asset class policy benchmark.
- The Allocation Effect represents the favorable or unfavorable impact of being over or under weight to each asset class relative to policy targets.
- The Timing & Interaction Effect captures the impact of intra-month cash flows on Total Fund return.

As of June 30, 2020

## Trailing Period Performance

	Performance (%)													
	1 Quarter	2 Quarters Ending Jun-2020	3 Quarters Ending Jun-2020	FYTD	YTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
<b>PSERS Total Fund</b>	5.75	-2.94	-0.88	1.11	-2.94	1.11	5.62	5.64	7.70	6.11	5.58	7.48	9.43	07/01/1982
<i>Blended Policy (Total Plan)</i>	6.53	-1.61	0.35	2.74	-1.61	2.74	6.26	6.08	7.50	5.94	5.06	N/A	N/A	
Value Added	-0.78	-1.33	-1.23	-1.63	-1.33	-1.63	-0.64	-0.44	0.20	0.17	0.52	N/A	N/A	
<b>Total Public Global and Private Equity Exposure (hedged)</b>	4.58	-5.82	-1.41	0.27	-5.82	0.27	6.87	7.42	N/A	N/A	N/A	N/A	7.51	10/01/2014
<i>Blended Policy (Total Equity Exposure)</i>	4.69	-5.28	-0.89	1.13	-5.28	1.13	7.39	7.82	N/A	N/A	N/A	N/A	7.66	
Value Added	-0.11	-0.54	-0.52	-0.86	-0.54	-0.86	-0.52	-0.40	N/A	N/A	N/A	N/A	-0.15	
<b>Total Public Global Equity Composite (hedged)</b>	20.69	-5.66	2.99	3.34	-5.66	3.34	6.48	7.08	10.89	7.83	6.26	N/A	6.93	07/01/1998
<i>Blended Policy (Public Equity) (Hedged)</i>	17.79	-8.76	-0.97	-0.69	-8.76	-0.69	4.92	5.81	9.58	6.79	4.89	N/A	5.72	
Value Added	2.90	3.10	3.96	4.03	3.10	4.03	1.56	1.27	1.31	1.04	1.37	N/A	1.21	
<b>Total US Equity Composite</b>	23.06	-6.70	1.64	3.23	-6.70	3.23	8.27	9.47	13.37	8.35	6.58	N/A	6.55	01/01/2000
<i>Blended Policy (Tot US Eq)</i>	21.16	-6.19	1.99	3.25	-6.19	3.25	8.94	9.38	13.35	8.57	6.02	N/A	5.83	
Value Added	1.90	-0.51	-0.35	-0.02	-0.51	-0.02	-0.67	0.09	0.02	-0.22	0.56	N/A	0.72	
<b>PSERS-S&amp;P 500 Index Composite</b>	23.05	-3.84	5.11	7.28	-3.84	7.28	10.38	10.83	14.14	9.09	6.14	N/A	6.91	07/01/1998
<i>S&amp;P 500 Index</i>	20.54	-3.08	5.71	7.51	-3.08	7.51	10.73	10.73	13.99	8.83	5.91	9.27	6.69	
Value Added	2.51	-0.76	-0.60	-0.23	-0.76	-0.23	-0.35	0.10	0.15	0.26	0.23	N/A	0.22	
<b>Radcliffe Specialty Finance Debt</b>	10.93	-3.03	-1.04	1.41	-3.03	1.41	3.60	4.10	N/A	N/A	N/A	N/A	4.09	10/01/2014
<i>3-Month Libor + 0.60%</i>	0.42	1.03	1.71	2.43	1.03	2.43	2.67	2.14	1.52	2.30	2.54	3.30	1.97	
Value Added	10.51	-4.06	-2.75	-1.02	-4.06	-1.02	0.93	1.96	N/A	N/A	N/A	N/A	2.12	
<b>PSERS-S&amp;P 400 Index Composite</b>	24.10	-12.73	-6.54	-6.61	-12.73	-6.61	2.50	5.41	11.57	8.64	8.62	N/A	9.39	07/01/1998
<i>S&amp;P MidCap 400</i>	24.07	-12.78	-6.62	-6.70	-12.78	-6.70	2.39	5.22	11.34	8.21	8.28	10.75	9.05	
Value Added	0.03	0.05	0.08	0.09	0.05	0.09	0.11	0.19	0.23	0.43	0.34	N/A	0.34	
<b>PSERS-S&amp;P 600 Index Composite</b>	22.07	-17.89	-11.07	-11.21	-17.89	-11.21	0.83	4.86	11.94	8.43	8.95	N/A	8.64	06/01/1998
<i>S&amp;P SmallCap 600</i>	21.94	-17.85	-11.11	-11.29	-17.85	-11.29	0.56	4.48	11.24	7.65	8.36	9.74	8.10	
Value Added	0.13	-0.04	0.04	0.08	-0.04	0.08	0.27	0.38	0.70	0.78	0.59	N/A	0.54	
<b>Total Non-U.S. Equity Composite (hedged)</b>	20.46	-6.75	1.93	1.77	-6.75	1.77	4.94	5.45	8.92	7.88	6.22	N/A	5.87	01/01/2000
<i>Blended Policy (Total Non-US Eq) (Hedged)</i>	16.23	-9.97	-2.37	-2.53	-9.97	-2.53	2.60	3.67	6.89	5.99	4.66	N/A	4.37	
Value Added	4.23	3.22	4.30	4.30	3.22	4.30	2.34	1.78	2.03	1.89	1.56	N/A	1.50	
<b>Total Non-U.S. Equity x Emerging Markets Composite (hedged)</b>	19.70	-7.73	0.70	0.91	-7.73	0.91	4.78	5.43	N/A	N/A	N/A	N/A	8.07	04/01/2014
<i>Blended Policy (Non-US Equity x EM) (Hedged)</i>	15.72	-10.01	-2.91	-2.86	-10.01	-2.86	2.50	3.61	7.02	6.07	4.72	N/A	4.80	
Value Added	3.98	2.28	3.61	3.77	2.28	3.77	2.28	1.82	N/A	N/A	N/A	N/A	3.27	
<b>Insight Everest Currency Hedge - Int'l Eq (notional)</b>	-1.97	2.03	-0.25	3.00	2.03	3.00	2.47	2.00	2.06	N/A	N/A	N/A	1.64	07/01/2006
<i>Currency Hedge Benchmark - Int'l Eq</i>	-2.05	1.96	-0.29	3.02	1.96	3.02	2.52	2.09	2.30	N/A	N/A	N/A	1.72	
Value Added	0.08	0.07	0.04	-0.02	0.07	-0.02	-0.05	-0.09	-0.24	N/A	N/A	N/A	-0.08	
<b>Non-US Large/Mid Cap Equity Composite</b>	19.32	-9.72	-0.51	-1.59	-9.72	-1.59	3.22	4.00	7.59	6.35	5.00	N/A	6.00	07/01/1998
<i>Blended Policy (MSCI World AC World ex USA net)</i>	16.12	-11.00	-3.06	-4.80	-11.00	-4.80	1.13	2.26	4.97	4.53	3.57	5.11	4.38	
Value Added	3.20	1.28	2.55	3.21	1.28	3.21	2.09	1.74	2.62	1.82	1.43	N/A	1.62	
<b>PSERS ACWI x US Fund</b>	18.00	-9.86	-1.86	-3.01	-9.86	-3.01	2.24	3.17	5.76	5.18	3.89	N/A	4.66	07/01/1998
<i>MSCI ACWI/EAFE Index Blend</i>	16.12	-11.00	-3.06	-4.80	-11.00	-4.80	1.13	2.26	4.97	4.44	3.23	4.80	4.02	
Value Added	1.88	1.14	1.20	1.79	1.14	1.79	1.11	0.91	0.79	0.74	0.66	N/A	0.64	
<b>BlackRock EMEA</b>	19.57	-10.37	0.39	-3.53	-10.37	-3.53	2.24	3.75	N/A	N/A	N/A	N/A	3.75	07/01/2015
<i>MSCI Emerging Markets Index (Net)</i>	18.08	-9.78	0.89	-3.39	-9.78	-3.39	1.90	2.86	3.27	6.33	6.60	5.45	2.86	
Value Added	1.49	-0.59	-0.50	-0.14	-0.59	-0.14	0.34	0.89	N/A	N/A	N/A	N/A	0.89	
<b>Active Non-US Large/Mid Cap Composite</b>	20.74	-9.47	0.94	-0.07	-9.47	-0.07	4.29	5.03	8.04	6.50	5.11	N/A	6.12	07/01/1998
<i>MSCI AC World ex USA Index (Net)</i>	16.12	-11.00	-3.06	-4.80	-11.00	-4.80	1.13	2.26	4.97	4.44	3.42	4.90	4.32	
Value Added	4.62	1.53	4.00	4.73	1.53	4.73	3.16	2.77	3.07	2.06	1.69	N/A	1.80	
<b>Baillie Gifford</b>	24.56	-1.31	10.84	8.80	-1.31	8.80	7.36	7.71	9.22	8.76	N/A	N/A	9.30	07/01/2002
<i>MSCI AC World ex USA Index (Net)</i>	16.12	-11.00	-3.06	-4.80	-11.00	-4.80	1.13	2.26	4.97	4.44	3.42	4.90	5.92	
Value Added	8.44	9.69	13.90	13.60	9.69	13.60	6.23	5.45	4.25	4.32	N/A	N/A	3.38	

As of June 30, 2020

## Trailing Period Performance

	Performance (%)													
	1 Quarter	2 Quarters Ending Jun-2020	3 Quarters Ending Jun-2020	FYTD	YTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
BlackRock Emerging Markets Alpha Advantage Fund Ltd	19.54	-10.37	0.35	-3.88	-10.37	-3.88	2.57	6.50	8.60	N/A	N/A	N/A	22.12	12/01/2008
<i>MSCI Emerging Markets Index (Net)</i>	18.08	-9.78	0.89	-3.39	-9.78	-3.39	1.90	2.86	3.27	6.33	6.60	5.45	8.20	
Value Added	1.46	-0.59	-0.54	-0.49	-0.59	-0.49	0.67	3.64	5.33	N/A	N/A	N/A	13.92	
Effissimo Capital Partners Feeder Fund 2 LP	18.31	-29.12	-13.82	-16.12	-29.12	-16.12	N/A	N/A	N/A	N/A	N/A	N/A	-15.28	12/01/2018
<i>MSCI Japan in LC (Net)</i>	11.54	-7.80	-0.20	3.24	-7.80	3.24	1.58	0.88	8.22	3.78	1.33	2.49	-0.95	
Value Added	6.77	-21.32	-13.62	-19.36	-21.32	-19.36	N/A	N/A	N/A	N/A	N/A	N/A	-14.33	
Marathon Asset Mgmt	15.78	-15.46	-7.12	-8.11	-15.46	-8.11	0.16	2.27	6.72	6.54	7.06	N/A	7.87	07/01/1998
<i>Blended Benchmark (MSCI ACWI ex USA net)</i>	16.12	-11.00	-3.06	-4.80	-11.00	-4.80	1.13	2.26	4.97	4.50	3.56	5.03	4.44	
Value Added	-0.34	-4.46	-4.06	-3.31	-4.46	-3.31	-0.97	0.01	1.75	2.04	3.50	N/A	3.43	
The Children's Investment Fund, LP	22.68	-5.35	2.90	5.31	-5.35	5.31	N/A	N/A	N/A	N/A	N/A	N/A	14.22	05/01/2018
<i>MSCI World Index (Net)</i>	19.36	-5.77	2.30	2.84	-5.77	2.84	6.70	6.90	9.95	6.55	4.32	6.76	4.49	
Value Added	3.32	0.42	0.60	2.47	0.42	2.47	N/A	N/A	N/A	N/A	N/A	N/A	9.73	
Non-US Small Cap Equity Composite	29.11	-2.39	8.69	5.05	-2.39	5.05	4.37	5.78	9.89	8.04	N/A	N/A	8.04	07/01/2005
<i>MSCI AC World ex USA Small Cap (Net)</i>	22.83	-12.80	-3.19	-4.34	-12.80	-4.34	-0.17	2.50	6.05	5.73	6.11	5.55	5.73	
Value Added	6.28	10.41	11.88	9.39	10.41	9.39	4.54	3.28	3.84	2.31	N/A	N/A	2.31	
Acadian Asset Mgmt	22.93	-8.89	1.51	-2.03	-8.89	-2.03	0.99	5.31	8.85	8.71	N/A	N/A	8.71	07/01/2005
<i>Blended Benchmark (MSCI AC World ex USA Small Cap net)</i>	22.83	-12.80	-3.19	-4.34	-12.80	-4.34	-0.17	2.50	6.05	5.33	N/A	N/A	5.33	
Value Added	0.10	3.91	4.70	2.31	3.91	2.31	1.16	2.81	2.80	3.38	N/A	N/A	3.38	
Oberweis Asset Mgmt	47.29	11.41	20.71	15.64	11.41	15.64	7.67	8.07	14.93	N/A	N/A	N/A	8.42	07/01/2008
<i>MSCI AC World ex USA Small Cap (Net)</i>	22.83	-12.80	-3.19	-4.34	-12.80	-4.34	-0.17	2.50	6.05	5.73	6.11	5.55	3.86	
Value Added	24.46	24.21	23.90	19.98	24.21	19.98	7.84	5.57	8.88	N/A	N/A	N/A	4.56	
QS Investors	21.68	-13.81	-3.30	-5.45	-13.81	-5.45	-1.46	1.62	7.85	N/A	N/A	N/A	4.44	07/01/2008
<i>MSCI AC World ex USA Small Cap (Net)</i>	22.83	-12.80	-3.19	-4.34	-12.80	-4.34	-0.17	2.50	6.05	5.73	6.11	5.55	3.86	
Value Added	-1.15	-1.01	-0.11	-1.11	-1.01	-1.11	-1.29	-0.88	1.80	N/A	N/A	N/A	0.58	
Wasatch Int'l Small Cap	24.82	-2.29	10.44	7.12	-2.29	7.12	7.28	6.65	10.92	N/A	N/A	N/A	8.86	10/01/2005
<i>Blended Benchmark (MSCI AC World ex USA Small Cap net)</i>	22.83	-12.80	-3.19	-4.34	-12.80	-4.34	-0.17	2.50	6.05	5.33	N/A	N/A	4.85	
Value Added	1.99	10.51	13.63	11.46	10.51	11.46	7.45	4.15	4.87	N/A	N/A	N/A	4.01	
Emerging Markets Equity Composite	26.77	1.46	12.42	8.84	1.46	8.84	4.50	3.16	1.19	4.32	5.23	N/A	6.09	07/01/1998
<i>Blended Policy (EM)</i>	18.93	-10.09	0.32	-3.97	-10.09	-3.97	1.44	2.58	3.13	6.30	6.64	N/A	7.69	
Value Added	7.84	11.55	12.10	12.81	11.55	12.81	3.06	0.58	-1.94	-1.98	-1.41	N/A	-1.60	
<i>MSCI Emerging Markets IMI (Net)</i>	18.93	-10.09	0.32	-3.97	-10.09	-3.97	1.35	2.35	3.11	6.31	6.47	4.19	6.86	
Value Added	7.84	11.55	12.10	12.81	11.55	12.81	3.15	0.81	-1.92	-1.99	-1.24	N/A	-0.77	
Cederberg China Equity Fund	23.44	14.44	28.13	25.63	14.44	25.63	N/A	N/A	N/A	N/A	N/A	N/A	22.64	04/01/2019
<i>MSCI Golden Dragon Index (Net)</i>	15.61	0.36	14.60	9.89	0.36	9.89	7.25	5.94	7.62	8.27	N/A	N/A	6.09	
Value Added	7.83	14.08	13.53	15.74	14.08	15.74	N/A	N/A	N/A	N/A	N/A	N/A	16.55	
Steadview Capital Partners LP	18.66	-9.71	-2.96	-10.63	-9.71	-10.63	N/A	N/A	N/A	N/A	N/A	N/A	-7.02	12/01/2018
<i>Nifty 50 Index</i>	19.82	-15.34	-10.22	-12.61	-15.34	-12.61	3.40	5.27	8.18	12.24	11.87	11.31	-3.28	
Value Added	-1.16	5.63	7.26	1.98	5.63	1.98	N/A	N/A	N/A	N/A	N/A	N/A	-3.74	
Wasatch EM Small Cap	33.83	-0.48	11.10	9.33	-0.48	9.33	6.47	4.32	6.67	N/A	N/A	N/A	7.42	07/01/2008
<i>Blended Policy (Wasatch EM)</i>	24.09	-13.43	-5.26	-9.85	-13.43	-9.85	-2.43	-0.87	1.91	6.22	6.96	3.74	2.60	
Value Added	9.74	12.95	16.36	19.18	12.95	19.18	8.90	5.19	4.76	N/A	N/A	N/A	4.82	
Total Private Equity (hedged)	-10.74	-7.02	-7.14	-4.18	-7.02	-4.18	7.40	7.97	9.44	10.30	8.21	N/A	9.65	07/01/1998
<i>Burgiss Private Equity (1Q Lag)</i>	-6.75	-2.66	-1.93	1.79	-2.66	1.79	9.79	9.76	11.46	8.94	6.47	N/A	6.25	
Value Added	-3.99	-4.36	-5.21	-5.97	-4.36	-5.97	-2.39	-1.79	-2.02	1.36	1.74	N/A	3.40	
Private Equity Composite (Buyout/Venture/Special Situations/Co-Invest)	-11.11	-7.29	-7.52	-4.50	-7.29	-4.50	7.28	7.85	N/A	N/A	N/A	N/A	8.75	04/01/2012
Insight Wilson Currency Hedge - PE Internal Co-Invest (1Q Lag)(Notional)	4.03	0.83	5.79	5.87	0.83	5.87	1.88	N/A	N/A	N/A	N/A	N/A	3.24	10/01/2015
<i>Currency Hedge Benchmark - PE (1Q Lag)</i>	3.95	0.75	5.75	5.85	0.75	5.85	1.90	N/A	N/A	N/A	N/A	N/A	3.29	
Value Added	0.08	0.08	0.04	0.02	0.08	0.02	-0.02	N/A	N/A	N/A	N/A	N/A	-0.05	



As of June 30, 2020

## Trailing Period Performance

	Performance (%)													
	1 Quarter	2 Quarters Ending Jun-2020	3 Quarters Ending Jun-2020	FYTD	YTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
PSERS Private Equity Internal Co-Invest Composite	-14.69	-12.73	-12.10	-10.56	-12.73	-10.56	5.46	13.16	N/A	N/A	N/A	N/A	22.12	04/01/2012
PSERS Private Equity Internal Co-Invest ex PA	-14.44	-12.27	-12.04	-10.30	-12.27	-10.30	5.07	13.00	N/A	N/A	N/A	N/A	22.02	04/01/2012
PSERS Private Equity Internal Pennsylvania Co-Invest Composite	-18.06	-18.02	-13.79	-14.07	-18.02	-14.07	8.24	N/A	N/A	N/A	N/A	N/A	10.70	12/01/2015
Special Situations Composite	-11.86	-10.67	-9.55	-8.76	-10.67	-8.76	2.69	2.29	5.88	6.78	N/A	N/A	6.57	04/01/2001
Buyout/Venture Capital-Growth Equity Composite	-10.54	-5.95	-6.56	-2.91	-5.95	-2.91	8.35	8.68	9.88	10.75	8.41	N/A	9.63	07/01/1998
Buyout	-11.46	-7.36	-8.35	-4.97	-7.36	-4.97	7.11	8.29	9.66	10.77	N/A	N/A	10.16	04/01/2001
Buyout x Tobacco Composite	-11.46	-7.36	-8.35	-4.97	-7.36	-4.97	7.11	8.40	9.71	10.81	N/A	N/A	10.19	04/01/2001
Venture Capital - Growth Equity	-6.22	0.87	2.40	7.62	0.87	7.62	14.63	10.35	10.60	9.81	N/A	N/A	5.18	04/01/2001
<b>Total Fixed Income Exposure</b>	<b>5.06</b>	<b>4.82</b>	<b>3.83</b>	<b>7.10</b>	<b>4.82</b>	<b>7.10</b>	<b>7.16</b>	<b>6.65</b>	<b>6.93</b>	<b>6.78</b>	<b>7.19</b>	<b>N/A</b>	<b>6.81</b>	<b>07/01/1998</b>
<i>Blended Policy (Total FI)</i>	5.90	5.85	4.89	8.70	5.85	8.70	6.38	5.70	5.15	5.64	6.12	N/A	5.90	
Value Added	-0.84	-1.03	-1.06	-1.60	-1.03	-1.60	0.78	0.95	1.78	1.14	1.07	N/A	0.91	
<b>Global Fixed Income Composite</b>	<b>6.98</b>	<b>4.47</b>	<b>4.96</b>	<b>6.73</b>	<b>4.47</b>	<b>6.73</b>	<b>5.27</b>	<b>4.93</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>3.78</b>	<b>07/01/2012</b>
<i>Blended Policy (Global FI)</i>	4.28	4.45	5.22	7.12	4.45	7.12	5.02	4.24	3.62	N/A	N/A	N/A	2.87	
Value Added	2.70	0.02	-0.26	-0.39	0.02	-0.39	0.25	0.69	N/A	N/A	N/A	N/A	0.91	
<b>Total US Fixed Income Composite</b>	<b>7.10</b>	<b>5.23</b>	<b>2.65</b>	<b>6.46</b>	<b>5.23</b>	<b>6.46</b>	<b>7.07</b>	<b>6.72</b>	<b>7.36</b>	<b>7.08</b>	<b>N/A</b>	<b>N/A</b>	<b>7.07</b>	<b>10/01/2004</b>
<i>Blended Policy (Total US FI)</i>	5.35	5.93	6.06	10.03	5.93	10.03	6.83	5.90	5.60	6.05	6.42	6.39	6.02	
Value Added	1.75	-0.70	-3.41	-3.57	-0.70	-3.57	0.24	0.82	1.76	1.03	N/A	N/A	1.05	
<b>Total US Fixed Income ex TIPS Composite</b>	<b>2.34</b>	<b>16.07</b>	<b>13.13</b>	<b>19.20</b>	<b>16.07</b>	<b>19.20</b>	<b>11.11</b>	<b>9.32</b>	<b>8.84</b>	<b>7.86</b>	<b>7.99</b>	<b>N/A</b>	<b>7.59</b>	<b>07/01/1998</b>
Investment Grade Composite	2.33	16.12	13.20	19.38	16.12	19.38	9.00	7.90	N/A	N/A	N/A	N/A	6.97	10/01/2014
<i>Blended Policy (Investment Grade)</i>	1.31	15.06	12.28	18.68	15.06	18.68	9.81	7.29	5.76	5.74	N/A	N/A	6.52	
Value Added	1.02	1.06	0.92	0.70	1.06	0.70	-0.81	0.61	N/A	N/A	N/A	N/A	0.45	
<b>US Core Plus Fixed Income Composite</b>	<b>6.38</b>	<b>6.17</b>	<b>6.08</b>	<b>8.34</b>	<b>6.17</b>	<b>8.34</b>	<b>5.56</b>	<b>5.26</b>	<b>5.16</b>	<b>5.22</b>	<b>N/A</b>	<b>N/A</b>	<b>5.25</b>	<b>10/01/2004</b>
<i>Blended Policy (Barclays Aggregate Index)</i>	2.90	6.14	6.33	8.74	6.14	8.74	5.32	4.30	3.82	4.40	5.19	5.43	4.43	
Value Added	3.48	0.03	-0.25	-0.40	0.03	-0.40	0.24	0.96	1.34	0.82	N/A	N/A	0.82	
<b>BlackRock Global Alpha</b>	<b>13.85</b>	<b>8.08</b>	<b>8.36</b>	<b>11.26</b>	<b>8.08</b>	<b>11.26</b>	<b>6.43</b>	<b>6.44</b>	<b>6.73</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>7.17</b>	<b>07/01/2007</b>
<i>Blended Policy (Barclays Aggregate Index)</i>	2.90	6.14	6.33	8.74	6.14	8.74	5.32	4.30	3.82	4.40	5.19	5.43	4.59	
Value Added	10.95	1.94	2.03	2.52	1.94	2.52	1.11	2.14	2.91	N/A	N/A	N/A	2.58	
<b>PSERS Active Core Plus Fixed Income</b>	<b>2.00</b>	<b>5.99</b>	<b>5.73</b>	<b>7.72</b>	<b>5.99</b>	<b>7.72</b>	<b>5.44</b>	<b>4.81</b>	<b>4.54</b>	<b>5.38</b>	<b>6.15</b>	<b>N/A</b>	<b>5.97</b>	<b>07/01/1998</b>
<i>Blmbg. Barc. U.S. Aggregate</i>	2.90	6.14	6.33	8.74	6.14	8.74	5.32	4.30	3.82	4.39	5.14	5.36	5.02	
Value Added	-0.90	-0.15	-0.60	-1.02	-0.15	-1.02	0.12	0.51	0.72	0.99	1.01	N/A	0.95	
<b>SEI Investment Management</b>	<b>8.33</b>	<b>-5.22</b>	<b>-5.71</b>	<b>-5.50</b>	<b>-5.22</b>	<b>-5.50</b>	<b>0.83</b>	<b>2.27</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>2.59</b>	<b>03/01/2014</b>
<i>ICE BofAML 1-3 Year U.S. Corporate</i>	4.39	2.64	3.54	4.58	2.64	4.58	3.42	2.80	2.65	3.43	4.01	4.44	2.46	
Value Added	3.94	-7.86	-9.25	-10.08	-7.86	-10.08	-2.59	-0.53	N/A	N/A	N/A	N/A	0.13	
<b>Non-U.S. Developed Markets Fixed Income Composite</b>	<b>0.54</b>	<b>0.75</b>	<b>1.34</b>	<b>1.94</b>	<b>0.75</b>	<b>1.94</b>	<b>1.91</b>	<b>3.13</b>	<b>2.08</b>	<b>3.39</b>	<b>4.62</b>	<b>N/A</b>	<b>4.32</b>	<b>07/01/1998</b>
<i>Blended Policy (Barclays GlobalAgg GDP Weighted Dev xUS hedged)</i>	2.48	2.90	1.64	4.71	2.90	4.71	5.25	4.67	2.86	3.61	N/A	N/A	N/A	
Value Added	-1.94	-2.15	-0.30	-2.77	-2.15	-2.77	-3.34	-1.54	-0.78	-0.22	N/A	N/A	N/A	
<b>Alliance Bernstein Global Fixed</b>	<b>0.54</b>	<b>0.75</b>	<b>1.34</b>	<b>1.94</b>	<b>0.75</b>	<b>1.94</b>	<b>1.91</b>	<b>3.13</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>1.29</b>	<b>01/01/2012</b>
<i>Spliced Barclays GlobalAgg GDPWeighted Dev xUS</i>	2.48	2.90	1.64	4.71	2.90	4.71	5.25	4.67	3.08	3.54	N/A	N/A	2.13	
Value Added	-1.94	-2.15	-0.30	-2.77	-2.15	-2.77	-3.34	-1.54	N/A	N/A	N/A	N/A	-0.84	
<b>U.S. Treasuries Total (unlevered)</b>	<b>-0.54</b>	<b>20.84</b>	<b>15.88</b>	<b>25.06</b>	<b>20.84</b>	<b>25.06</b>	<b>10.05</b>	<b>7.76</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>4.75</b>	<b>07/01/2012</b>
<i>Blmbg. Barc. U.S. Treasury: Long</i>	0.25	21.20	16.21	25.40	21.20	25.40	12.04	9.26	7.74	7.19	7.86	7.77	6.15	
Value Added	-0.79	-0.36	-0.33	-0.34	-0.36	-0.34	-1.99	-1.50	N/A	N/A	N/A	N/A	-1.40	
<b>PSERS Funded U.S. Long Treasuries</b>	<b>-0.54</b>	<b>20.84</b>	<b>15.88</b>	<b>25.06</b>	<b>20.84</b>	<b>25.06</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>27.12</b>	<b>12/01/2018</b>
<i>Blmbg. Barc. U.S. Treasury: Long</i>	0.25	21.20	16.21	25.40	21.20	25.40	12.04	9.26	7.74	7.19	7.86	7.77	27.43	
Value Added	-0.79	-0.36	-0.33	-0.34	-0.36	-0.34	N/A	N/A	N/A	N/A	N/A	N/A	-0.31	
<b>Credit-Related (hedged)</b>	<b>11.29</b>	<b>-5.60</b>	<b>-1.83</b>	<b>-3.11</b>	<b>-5.60</b>	<b>-3.11</b>	<b>4.68</b>	<b>5.15</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>5.18</b>	<b>10/01/2014</b>
<i>Blended Policy (Credit-Related)</i>	9.93	-2.61	0.29	0.99	-2.61	0.99	3.60	4.78	N/A	N/A	N/A	N/A	3.96	

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## Trailing Period Performance

	Performance (%)													
	1 Quarter	2 Quarters Ending Jun-2020	3 Quarters Ending Jun-2020	FYTD	YTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
Value Added	1.36	-2.99	-2.12	-4.10	-2.99	-4.10	1.08	0.37	N/A	N/A	N/A	N/A	1.22	
Emerging Markets Fixed Income Composite	11.29	-5.60	-1.83	-3.11	-5.60	-3.11	3.34	4.16	3.86	N/A	N/A	N/A	3.75	04/01/2010
Blended Policy (EM FI)	9.93	-2.61	0.29	0.17	-2.61	0.17	2.38	2.97	2.69	5.42	N/A	N/A	2.42	
Value Added	1.36	-2.99	-2.12	-3.28	-2.99	-3.28	0.96	1.19	1.17	N/A	N/A	N/A	1.33	
Franklin Templeton Emerging Fixed Income	11.29	-5.60	-1.83	-3.11	-5.60	-3.11	3.34	4.54	5.30	N/A	N/A	N/A	6.64	10/01/2008
Blended Benchmark (Franklin)	9.95	-2.58	0.30	1.02	-2.58	1.02	3.20	3.46	3.36	4.88	5.65	6.12	4.03	
Value Added	1.34	-3.02	-2.13	-4.13	-3.02	-4.13	0.14	1.08	1.94	N/A	N/A	N/A	2.61	
Private Credit Composite (hedged)	5.22	-6.54	-4.38	-4.27	-6.54	-4.27	3.48	4.52	7.08	6.82	7.32	N/A	7.26	10/01/1999
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	7.07	
Value Added	-5.03	-2.88	-2.88	-4.08	-2.88	-4.08	0.23	-0.22	0.42	-0.05	0.04	N/A	0.19	
Insight Oxygen Currency Hedge - Private Credit (notional)	-2.03	0.89	-1.37	3.80	0.89	3.80	3.09	1.86	N/A	N/A	N/A	N/A	1.86	07/01/2015
Currency Hedge Benchmark - Private Credit	-2.06	0.76	-1.45	3.75	0.76	3.75	3.14	2.12	N/A	N/A	N/A	N/A	2.12	
Value Added	0.03	0.13	0.08	0.05	0.13	0.05	-0.05	-0.26	N/A	N/A	N/A	N/A	-0.26	
PSERS Private Credit Internal Co-Invest	4.13	1.61	9.83	6.99	1.61	6.99	4.04	-14.19	N/A	N/A	N/A	N/A	-8.02	08/01/2013
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.73	
Value Added	-6.12	5.27	11.33	7.18	5.27	7.18	0.79	-18.93	N/A	N/A	N/A	N/A	-12.75	
Apollo European Principal Fund II	1.33	-9.66	-8.96	-12.29	-9.66	-12.29	-4.68	2.14	N/A	N/A	N/A	N/A	2.82	10/01/2012
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	5.09	
Value Added	-8.92	-6.00	-7.46	-12.10	-6.00	-12.10	-7.93	-2.60	N/A	N/A	N/A	N/A	-2.27	
Apollo European Principal Fund III	0.43	-4.65	6.29	13.09	-4.65	13.09	N/A	N/A	N/A	N/A	N/A	N/A	-1.80	01/01/2018
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	2.91	
Value Added	-9.82	-0.99	7.79	13.28	-0.99	13.28	N/A	N/A	N/A	N/A	N/A	N/A	-4.71	
Avenue Energy Opportunities Fund	13.66	-12.33	-9.67	-14.15	-12.33	-14.15	-3.45	-1.41	N/A	N/A	N/A	N/A	-1.48	02/01/2015
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.72	
Value Added	3.41	-8.67	-8.17	-13.96	-8.67	-13.96	-6.70	-6.15	N/A	N/A	N/A	N/A	-6.20	
Avenue Energy Opportunities Fund II	10.76	-4.32	-1.73	5.49	-4.32	5.49	N/A	N/A	N/A	N/A	N/A	N/A	1.49	09/01/2017
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	3.06	
Value Added	0.51	-0.66	-0.23	5.68	-0.66	5.68	N/A	N/A	N/A	N/A	N/A	N/A	-1.57	
Avenue Europe SS III	3.90	-6.36	-2.48	-3.65	-6.36	-3.65	3.38	N/A	N/A	N/A	N/A	N/A	4.71	01/01/2016
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	6.95	
Value Added	-6.35	-2.70	-0.98	-3.46	-2.70	-3.46	0.13	N/A	N/A	N/A	N/A	N/A	-2.24	
Bain Capital Credit Managed Account (PSERS), L.P.	11.23	-7.03	-5.79	-7.29	-7.03	-7.29	0.81	3.51	5.42	N/A	N/A	N/A	6.29	07/01/2009
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	8.35	
Value Added	0.98	-3.37	-4.29	-7.10	-3.37	-7.10	-2.44	-1.23	-1.24	N/A	N/A	N/A	-2.06	
Bain Capital Credit Opp. Fund IV	8.53	-7.70	-6.92	-6.74	-7.70	-6.74	10.35	6.99	5.91	N/A	N/A	N/A	8.11	10/01/2008
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	8.31	
Value Added	-1.72	-4.04	-5.42	-6.55	-4.04	-6.55	7.10	2.25	-0.75	N/A	N/A	N/A	-0.20	
Bain Capital Distressed and Special Situations 2013	2.30	-18.44	-19.90	-23.08	-18.44	-23.08	-3.57	-1.82	N/A	N/A	N/A	N/A	1.89	10/01/2012
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	5.09	
Value Added	-7.95	-14.78	-18.40	-22.89	-14.78	-22.89	-6.82	-6.56	N/A	N/A	N/A	N/A	-3.20	
Bain Capital Distressed and Special Situations 2016 (A), L.P.	0.31	-1.65	-0.33	0.39	-1.65	0.39	6.84	N/A	N/A	N/A	N/A	N/A	11.23	11/01/2015
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	5.60	
Value Added	-9.94	2.01	1.17	0.58	2.01	0.58	3.59	N/A	N/A	N/A	N/A	N/A	5.63	
Bain Capital Distressed and Special Situations 2019 (A), L.P.	5.49	-0.41	N/A	N/A	-0.41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-3.11	12/01/2019
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	-1.96	
Value Added	-4.76	3.25	N/A	N/A	3.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-1.15	
Bain Capital Middle Market Credit 2010, L.P.	19.58	-13.38	-12.02	-9.60	-13.38	-9.60	1.10	-0.46	4.95	N/A	N/A	N/A	4.91	06/01/2010
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	6.73	

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## Trailing Period Performance

	Performance (%)													
	1 Quarter	2 Quarters Ending Jun-2020	3 Quarters Ending Jun-2020	FYTD	YTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
Value Added	9.33	-9.72	-10.52	-9.41	-9.72	-9.41	-2.15	-5.20	-1.71	N/A	N/A	N/A	-1.82	
Bain Capital Middle Market Credit 2014, L.P.	4.59	-0.72	0.16	1.20	-0.72	1.20	6.17	4.68	N/A	N/A	N/A	N/A	5.46	11/01/2013
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.47	
Value Added	-5.66	2.94	1.66	1.39	2.94	1.39	2.92	-0.06	N/A	N/A	N/A	N/A	0.99	
Brigade Distressed Value	9.94	-8.18	-3.80	-8.22	-8.18	-8.22	1.57	3.31	N/A	N/A	N/A	N/A	5.43	10/01/2011
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	6.63	
Value Added	-0.31	-4.52	-2.30	-8.03	-4.52	-8.03	-1.68	-1.43	N/A	N/A	N/A	N/A	-1.20	
Brigade Structured Credit Offshore Fund	9.87	-11.67	-10.55	-9.72	-11.67	-9.72	1.30	4.85	N/A	N/A	N/A	N/A	4.69	11/01/2014
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.23	
Value Added	-0.38	-8.01	-9.05	-9.53	-8.01	-9.53	-1.95	0.11	N/A	N/A	N/A	N/A	0.46	
Carlyle Energy Mezz. Opp. Fund	7.07	-50.53	-59.09	-70.88	-50.53	-70.88	-37.86	-35.50	N/A	N/A	N/A	N/A	-20.40	10/01/2012
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	5.09	
Value Added	-3.18	-46.87	-57.59	-70.69	-46.87	-70.69	-41.11	-40.24	N/A	N/A	N/A	N/A	-25.49	
Carlyle Energy Mezz. Opp. Fund II	7.65	-18.58	-21.96	-22.68	-18.58	-22.68	-6.04	N/A	N/A	N/A	N/A	N/A	-9.39	11/01/2015
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	5.60	
Value Added	-2.60	-14.92	-20.46	-22.49	-14.92	-22.49	-9.29	N/A	N/A	N/A	N/A	N/A	-14.99	
Cerberus Levered Loan Fund I	-16.26	-16.92	-16.78	-15.74	-16.92	-15.74	-1.52	0.60	N/A	N/A	N/A	N/A	3.20	01/01/2012
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	6.05	
Value Added	-26.51	-13.26	-15.28	-15.55	-13.26	-15.55	-4.77	-4.14	N/A	N/A	N/A	N/A	-2.85	
Cerberus Levered Loan Fund II	-2.64	-16.73	-18.91	-20.06	-16.73	-20.06	-5.67	-2.11	N/A	N/A	N/A	N/A	2.61	01/01/2013
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.81	
Value Added	-12.89	-13.07	-17.41	-19.87	-13.07	-19.87	-8.92	-6.85	N/A	N/A	N/A	N/A	-2.20	
Cerberus PSERS Levered Loan Opportunities Fund	1.87	3.01	6.35	9.33	3.01	9.33	10.96	N/A	N/A	N/A	N/A	N/A	20.53	10/01/2015
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	6.10	
Value Added	-8.38	6.67	7.85	9.52	6.67	9.52	7.71	N/A	N/A	N/A	N/A	N/A	14.43	
Clearlake Opportunities Partners II, LP	12.85	-1.63	2.06	N/A	-1.63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.06	09/01/2019
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	-1.14	
Value Added	2.60	2.03	3.56	N/A	2.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.20	
Galton Onshore Mortgage Recovery Fund III, LP	14.95	-8.29	-11.33	-11.13	-8.29	-11.13	1.72	3.57	N/A	N/A	N/A	N/A	1.77	11/01/2013
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.47	
Value Added	4.70	-4.63	-9.83	-10.94	-4.63	-10.94	-1.53	-1.17	N/A	N/A	N/A	N/A	-2.70	
Galton Onshore Mortgage Recovery Fund IV, L.P.	13.46	-61.60	-60.41	-61.24	-61.60	-61.24	N/A	N/A	N/A	N/A	N/A	N/A	-35.14	11/01/2017
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	2.75	
Value Added	3.21	-57.94	-58.91	-61.05	-57.94	-61.05	N/A	N/A	N/A	N/A	N/A	N/A	-37.89	
Hayfin SOF II USD LP	3.13	-7.81	-5.58	-5.41	-7.81	-5.41	2.67	N/A	N/A	N/A	N/A	N/A	N/A	09/01/2016
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.49	
Value Added	-7.12	-4.15	-4.08	-5.22	-4.15	-5.22	-0.58	N/A	N/A	N/A	N/A	N/A	N/A	
Hayfin SOF II USD Co-Invest	4.24	-10.23	-3.41	-6.41	-10.23	-6.41	1.46	N/A	N/A	N/A	N/A	N/A	N/A	08/01/2016
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.94	
Value Added	-6.01	-6.57	-1.91	-6.22	-6.57	-6.22	-1.79	N/A	N/A	N/A	N/A	N/A	N/A	
Hayfin Special Opportunities Credit LP	-1.65	-16.35	-13.80	-20.87	-16.35	-20.87	1.39	4.50	N/A	N/A	N/A	N/A	3.41	03/01/2013
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.66	
Value Added	-11.90	-12.69	-12.30	-20.68	-12.69	-20.68	-1.86	-0.24	N/A	N/A	N/A	N/A	-1.25	
ICG Europe Fund V	3.71	-3.46	14.45	7.94	-3.46	7.94	13.80	12.39	N/A	N/A	N/A	N/A	10.14	01/01/2013
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.81	
Value Added	-6.54	0.20	15.95	8.13	0.20	8.13	10.55	7.65	N/A	N/A	N/A	N/A	5.33	
ICG Europe Fund VI	4.88	1.26	9.10	4.70	1.26	4.70	12.94	N/A	N/A	N/A	N/A	N/A	34.07	02/01/2016
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	7.48	

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## Trailing Period Performance

	Performance (%)													
	1 Quarter	2 Quarters Ending Jun-2020	3 Quarters Ending Jun-2020	FYTD	YTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
Value Added	-5.37	4.92	10.60	4.89	4.92	4.89	9.69	N/A	N/A	N/A	N/A	N/A	26.59	
ICG Europe Fund VII	6.83	3.10	15.99	20.00	3.10	20.00	N/A	N/A	N/A	N/A	N/A	N/A	17.57	08/01/2018
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	3.15	
Value Added	-3.42	6.76	17.49	20.19	6.76	20.19	N/A	N/A	N/A	N/A	N/A	N/A	14.42	
Latitude Management Real Estate Capital IV	2.31	4.28	6.23	7.95	4.28	7.95	5.66	N/A	N/A	N/A	N/A	N/A	4.99	05/01/2017
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	3.41	
Value Added	-7.94	7.94	7.73	8.14	7.94	8.14	2.41	N/A	N/A	N/A	N/A	N/A	1.58	
LBC Credit Partners III	-6.82	-11.53	-11.62	-12.04	-11.53	-12.04	-4.09	1.04	N/A	N/A	N/A	N/A	5.83	04/01/2013
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.57	
Value Added	-17.07	-7.87	-10.12	-11.85	-7.87	-11.85	-7.34	-3.70	N/A	N/A	N/A	N/A	1.26	
LBC-P Credit Fund LP	0.57	1.24	2.98	3.51	1.24	3.51	8.34	N/A	N/A	N/A	N/A	N/A	11.26	10/01/2016
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.40	
Value Added	-9.68	4.90	4.48	3.70	4.90	3.70	5.09	N/A	N/A	N/A	N/A	N/A	6.86	
Mariner/Galton RMBS	12.10	3.33	3.76	6.69	3.33	6.69	6.75	5.64	7.87	N/A	N/A	N/A	7.93	05/01/2010
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	6.29	
Value Added	1.85	6.99	5.26	6.88	6.99	6.88	3.50	0.90	1.21	N/A	N/A	N/A	1.64	
Newmarket International Infrastructure Finance Company Fund, L.P.	2.63	5.82	7.78	10.90	5.82	10.90	9.11	9.19	N/A	N/A	N/A	N/A	5.85	12/01/2013
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.44	
Value Added	-7.62	9.48	9.28	11.09	9.48	11.09	5.86	4.45	N/A	N/A	N/A	N/A	1.41	
Park Square Credit Opportunities	9.54	-14.76	-13.62	-10.55	-14.76	-10.55	-0.49	N/A	N/A	N/A	N/A	N/A	5.07	11/01/2015
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	5.60	
Value Added	-0.71	-11.10	-12.12	-10.36	-11.10	-10.36	-3.74	N/A	N/A	N/A	N/A	N/A	-0.53	
PIMCO BRAVO Fund III Onshore Feeder, L.P.	5.98	-9.25	-8.34	-5.69	-9.25	-5.69	N/A	N/A	N/A	N/A	N/A	N/A	7.90	12/01/2017
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	2.94	
Value Added	-4.27	-5.59	-6.84	-5.50	-5.59	-5.50	N/A	N/A	N/A	N/A	N/A	N/A	4.96	
PIMCO Commercial Real Estate Debt Fund, L.P.	6.01	6.06	6.43	9.10	6.06	9.10	N/A	N/A	N/A	N/A	N/A	N/A	8.12	02/01/2019
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	3.49	
Value Added	-4.24	9.72	7.93	9.29	9.72	9.29	N/A	N/A	N/A	N/A	N/A	N/A	4.63	
Sixth Street Fundamental Strategies Partners	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	06/01/2020
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	1.31	
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SSG Capital Partners V, LP	12.01	5.54	N/A	N/A	5.54	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.54	01/01/2020
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	-3.66	
Value Added	1.76	9.20	N/A	N/A	9.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.20	
SSG Capital Partners V Sidecar, LP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/01/2020
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	-3.66	
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Summit Partners Credit Fund II LP	0.79	-6.26	-3.99	-2.73	-6.26	-2.73	4.00	5.65	N/A	N/A	N/A	N/A	4.98	11/01/2014
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.23	
Value Added	-9.46	-2.60	-2.49	-2.54	-2.60	-2.54	0.75	0.91	N/A	N/A	N/A	N/A	0.75	
TCI Real Estate Partners Fund III, L.P.	2.06	5.44	7.93	11.41	5.44	11.41	N/A	N/A	N/A	N/A	N/A	N/A	12.11	01/01/2019
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	6.39	
Value Added	-8.19	9.10	9.43	11.60	9.10	11.60	N/A	N/A	N/A	N/A	N/A	N/A	5.72	
The Varde Scratch and Dent Fund, LP	0.19	-2.12	-0.40	0.45	-2.12	0.45	4.80	5.86	N/A	N/A	N/A	N/A	6.55	12/01/2014
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.43	
Value Added	-10.06	1.54	1.10	0.64	1.54	0.64	1.55	1.12	N/A	N/A	N/A	N/A	2.12	
The Varde Scratch and Dent Fund Feed I-A	1.81	-2.44	-0.16	2.02	-2.44	2.02	6.21	N/A	N/A	N/A	N/A	N/A	N/A	08/01/2016
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.94	

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## Trailing Period Performance

	Performance (%)													
	1 Quarter	2 Quarters Ending Jun-2020	3 Quarters Ending Jun-2020	FYTD	YTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
Value Added	-8.44	1.22	1.34	2.21	1.22	2.21	2.96	N/A	N/A	N/A	N/A	N/A	N/A	
TOP NPL (A)	-2.34	-25.60	-29.84	-28.88	-25.60	-28.88	-11.19	-5.06	N/A	N/A	N/A	N/A	3.87	04/01/2012
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	5.57	
Value Added	-12.59	-21.94	-28.34	-28.69	-21.94	-28.69	-14.44	-9.80	N/A	N/A	N/A	N/A	-1.70	
TPG Opportunities Partners II, LP	1.49	-10.86	-12.91	-12.05	-10.86	-12.05	2.27	5.41	N/A	N/A	N/A	N/A	8.77	04/01/2012
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	5.57	
Value Added	-8.76	-7.20	-11.41	-11.86	-7.20	-11.86	-0.98	0.67	N/A	N/A	N/A	N/A	3.20	
TPG Opportunities Partners III, LP	4.79	-4.25	4.30	3.19	-4.25	3.19	7.87	10.02	N/A	N/A	N/A	N/A	5.48	02/01/2014
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.36	
Value Added	-5.46	-0.59	5.80	3.38	-0.59	3.38	4.62	5.28	N/A	N/A	N/A	N/A	1.12	
TPG TAO	2.95	-0.77	3.02	5.19	-0.77	5.19	7.09	7.95	N/A	N/A	N/A	N/A	8.76	01/01/2015
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	4.78	
Value Added	-7.30	2.89	4.52	5.38	2.89	5.38	3.84	3.21	N/A	N/A	N/A	N/A	3.98	
TSSP Opportunities Partners IV, LP	4.74	-0.22	-0.09	2.61	-0.22	2.61	N/A	N/A	N/A	N/A	N/A	N/A	6.56	02/01/2019
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	3.49	
Value Added	-5.51	3.44	1.41	2.80	3.44	2.80	N/A	N/A	N/A	N/A	N/A	N/A	3.07	
Whitehorse Liquidity Partners IV LP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	06/01/2020
Blended Policy (Private Credit)	10.25	-3.66	-1.50	-0.19	-3.66	-0.19	3.25	4.74	6.66	6.87	7.28	7.16	1.31	
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Inflation Protected (unlevered)	5.14	3.67	1.74	4.64	3.67	4.64	4.32	3.82	6.24	6.92	N/A	N/A	6.83	04/01/2004
Blended Policy (Inflation Protected)	5.87	6.54	4.16	8.31	6.54	8.31	6.11	5.27	4.27	4.51	5.86	N/A	4.53	
Value Added	-0.73	-2.87	-2.42	-3.67	-2.87	-3.67	-1.79	-1.45	1.97	2.41	N/A	N/A	2.30	
U.S. Inflation Protected (unlevered)	4.06	6.00	6.69	8.22	6.00	8.22	4.73	3.91	4.34	5.11	N/A	N/A	5.14	03/01/2004
Blended Policy (U.S. Inflation Protected)	4.36	6.37	7.15	8.60	6.37	8.60	5.15	3.81	3.55	4.03	5.49	N/A	4.16	
Value Added	-0.30	-0.37	-0.46	-0.38	-0.37	-0.38	-0.42	0.10	0.79	1.08	N/A	N/A	0.98	
PSERS Total TIPS (unlevered)	4.06	6.00	6.69	8.22	6.00	8.22	4.73	3.91	3.83	4.37	N/A	N/A	4.43	04/01/2004
Blended Policy (U.S. Inflation Protected)	4.36	6.37	7.15	8.60	6.37	8.60	5.15	3.81	3.55	4.03	5.49	N/A	4.08	
Value Added	-0.30	-0.37	-0.46	-0.38	-0.37	-0.38	-0.42	0.10	0.28	0.34	N/A	N/A	0.35	
PSERS TIPS	3.81	5.62	6.16	7.84	5.62	7.84	5.21	4.08	3.92	4.43	N/A	N/A	4.49	04/01/2004
Blended Policy (U.S. Inflation Protected)	4.36	6.37	7.15	8.60	6.37	8.60	5.15	3.81	3.55	4.03	5.49	N/A	4.08	
Value Added	-0.55	-0.75	-0.99	-0.76	-0.75	-0.76	0.06	0.27	0.37	0.40	N/A	N/A	0.41	
PSERS TIPS Swap (Long)	4.36	6.28	7.10	8.54	6.28	8.54	5.13	N/A	N/A	N/A	N/A	N/A	3.71	09/01/2016
TIPS Swap Custom Benchmark	4.36	6.37	7.15	8.60	6.37	8.60	5.15	3.81	3.55	4.03	5.49	N/A	3.72	
Value Added	0.00	-0.09	-0.05	-0.06	-0.09	-0.06	-0.02	N/A	N/A	N/A	N/A	N/A	-0.01	
Non-U.S. Inflation Protected (unlevered)	6.16	1.13	-2.95	0.93	1.13	0.93	3.93	3.82	N/A	N/A	N/A	N/A	2.98	02/01/2015
Bloomberg Barclays World Govt ex U.S. ILB Index (H\$)	7.39	6.66	1.17	7.27	6.66	7.27	6.50	6.58	5.87	5.44	5.50	N/A	5.31	
Value Added	-1.23	-5.53	-4.12	-6.34	-5.53	-6.34	-2.57	-2.76	N/A	N/A	N/A	N/A	-2.33	
Bridgewater TIPS (unlevered)	6.16	1.13	-2.95	0.93	1.13	0.93	3.93	3.82	N/A	N/A	N/A	N/A	2.98	02/01/2015
BGI Custom IL Bond Index (unlevered)	6.36	5.23	0.51	4.54	5.23	4.54	4.75	N/A	N/A	N/A	N/A	N/A	N/A	
Value Added	-0.20	-4.10	-3.46	-3.61	-4.10	-3.61	-0.82	N/A	N/A	N/A	N/A	N/A	N/A	
PIMCO Multi-Sector Strategy	4.15	-0.75	-1.54	1.43	-0.75	1.43	4.09	3.84	N/A	N/A	N/A	N/A	3.57	07/01/2012
Blended Policy (PIMCO Multi-Sector)	2.15	10.26	9.12	13.35	10.26	13.35	8.18	6.17	5.17	5.29	5.82	5.90	5.04	
Value Added	2.00	-11.01	-10.66	-11.92	-11.01	-11.92	-4.09	-2.33	N/A	N/A	N/A	N/A	-1.47	
Total Real Asset Exposure (unlevered/hedged)	5.77	-7.76	-5.73	-4.71	-7.76	-4.71	2.38	2.34	N/A	N/A	N/A	N/A	2.11	10/01/2014
Blended Policy (Real Assets) (Hedged)	5.35	-7.57	-5.34	-4.61	-7.57	-4.61	2.55	2.41	N/A	N/A	N/A	N/A	2.04	
Value Added	0.42	-0.19	-0.39	-0.10	-0.19	-0.10	-0.17	-0.07	N/A	N/A	N/A	N/A	0.07	

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## Trailing Period Performance

	Performance (%)													
	1 Quarter	2 Quarters Ending Jun-2020	3 Quarters Ending Jun-2020	FYTD	YTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
Public Real Assets (unlevered/hedged)	13.29	-12.68	-10.45	-10.70	-12.68	-10.70	-1.50	-3.73	N/A	N/A	N/A	N/A	-5.72	10/01/2014
<i>Blended Policy (Real Assets x Private) (Hedged)</i>	13.60	-12.35	-9.65	-9.46	-12.35	-9.46	-0.99	-2.71	0.40	3.07	N/A	N/A	-4.82	
Value Added	-0.31	-0.33	-0.80	-1.24	-0.33	-1.24	-0.51	-1.02	N/A	N/A	N/A	N/A	-0.90	
Insight Nevada Currency Hedge - Infra (notional)	-4.23	2.33	-0.26	3.22	2.33	3.22	2.59	N/A	N/A	N/A	N/A	N/A	0.92	12/01/2015
<i>Currency Hedge Benchmark - Infra</i>	-4.19	2.35	-0.22	3.34	2.35	3.34	2.67	N/A	N/A	N/A	N/A	N/A	1.04	
Value Added	-0.04	-0.02	-0.04	-0.12	-0.02	-0.12	-0.08	N/A	N/A	N/A	N/A	N/A	-0.12	
Publicly-Traded Infrastructure Composite (unlevered)	21.18	-24.76	-23.96	-25.84	-24.76	-25.84	-4.30	N/A	N/A	N/A	N/A	N/A	0.98	11/01/2015
<i>FTSE Developed Core Infrast 50/50 Index (Net)</i>	10.31	-13.56	-10.86	-8.96	-13.56	-8.96	2.47	5.54	9.09	N/A	N/A	N/A	5.52	
Value Added	10.87	-11.20	-13.10	-16.88	-11.20	-16.88	-6.77	N/A	N/A	N/A	N/A	N/A	-4.54	
PSERS Infrastructure Index (Long)	10.31	-13.56	-10.87	-8.96	-13.56	-8.96	2.47	N/A	N/A	N/A	N/A	N/A	5.51	11/01/2015
<i>FTSE Developed Core Infrast 50/50 Index (Net)</i>	10.31	-13.56	-10.86	-8.96	-13.56	-8.96	2.47	5.54	9.09	N/A	N/A	N/A	5.52	
Value Added	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	-0.01	
MLP Composite	32.64	-32.09	-32.15	-35.43	-32.09	-35.43	-13.04	-11.06	3.54	N/A	N/A	N/A	7.03	10/01/2008
<i>Blended Policy (MLP)</i>	32.63	-29.60	-28.06	-30.96	-29.60	-30.96	-11.20	-10.14	0.91	3.90	N/A	N/A	4.79	
Value Added	0.01	-2.49	-4.09	-4.47	-2.49	-4.47	-1.84	-0.92	2.63	N/A	N/A	N/A	2.24	
PSERS Midstream Energy Index	31.98	-32.46	-32.58	-35.84	-32.46	-35.84	-13.25	N/A	N/A	N/A	N/A	N/A	-10.04	08/01/2015
<i>MLP Internal Blended Benchmark</i>	32.63	-32.08	-32.14	-35.41	-32.08	-35.41	-13.02	-11.24	0.29	3.47	N/A	N/A	-10.61	
Value Added	-0.65	-0.38	-0.44	-0.43	-0.38	-0.43	-0.23	N/A	N/A	N/A	N/A	N/A	0.57	
External MLP Composite	33.18	-31.80	-31.86	-35.15	-31.80	-35.15	-12.90	N/A	N/A	N/A	N/A	N/A	-12.66	06/01/2017
<i>Blended Policy (MLP)</i>	32.63	-29.60	-28.06	-30.96	-29.60	-30.96	-11.20	-10.14	0.91	3.90	N/A	N/A	-10.99	
Value Added	0.55	-2.20	-3.80	-4.19	-2.20	-4.19	-1.70	N/A	N/A	N/A	N/A	N/A	-1.67	
Atlantic Trust	41.20	-29.91	-30.04	-33.92	-29.91	-33.92	-12.08	-10.16	N/A	N/A	N/A	N/A	-1.26	09/01/2012
<i>Blended Policy (MLP)</i>	32.63	-29.60	-28.06	-30.96	-29.60	-30.96	-11.20	-10.14	0.91	3.90	N/A	N/A	-3.76	
Value Added	8.57	-0.31	-1.98	-2.96	-0.31	-2.96	-0.88	-0.02	N/A	N/A	N/A	N/A	2.50	
Salient	26.47	-32.89	-32.14	-34.68	-32.89	-34.68	-12.86	-11.58	N/A	N/A	N/A	N/A	-1.53	08/01/2012
<i>Blended Policy (MLP)</i>	32.63	-29.60	-28.06	-30.96	-29.60	-30.96	-11.20	-10.14	0.91	3.90	N/A	N/A	-3.52	
Value Added	-6.16	-3.29	-4.08	-3.72	-3.29	-3.72	-1.66	-1.44	N/A	N/A	N/A	N/A	1.99	
Public Commodities Composite (unlevered)	10.96	-2.41	1.81	2.13	-2.41	2.13	6.17	2.65	0.76	N/A	N/A	N/A	0.07	11/01/2006
<i>Blended Policy (Commodities)</i>	7.72	-6.78	-3.03	-2.68	-6.78	-2.68	0.67	-1.84	-2.37	N/A	N/A	N/A	-3.25	
Value Added	3.24	4.37	4.84	4.81	4.37	4.81	5.50	4.49	3.13	N/A	N/A	N/A	3.32	
Public Commodities ex Gold (unlevered)	8.83	-20.13	-16.03	-18.08	-20.13	-18.08	-5.64	-5.57	N/A	N/A	N/A	N/A	-8.92	03/01/2013
<i>Bloomberg Commodity Index Total Return</i>	5.08	-19.40	-15.83	-17.38	-19.40	-17.38	-6.14	-7.69	-5.82	-4.34	-0.83	0.75	-8.91	
Value Added	3.75	-0.73	-0.20	-0.70	-0.73	-0.70	0.50	2.12	N/A	N/A	N/A	N/A	-0.01	
PSERS Commodity Beta (Long)	5.08	-19.40	-15.83	-17.38	-19.40	-17.38	-6.14	-7.69	N/A	N/A	N/A	N/A	-10.64	05/01/2014
<i>Bloomberg Commodity Index Total Return</i>	5.08	-19.40	-15.83	-17.38	-19.40	-17.38	-6.14	-7.69	-5.82	-4.34	-0.83	0.75	-10.64	
Value Added	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A	0.00	
Gresham	8.56	-20.25	-15.41	-17.18	-20.25	-17.18	-4.82	-6.59	-3.94	N/A	N/A	N/A	-5.08	10/01/2007
<i>Bloomberg Commodity Index Total Return</i>	5.08	-19.40	-15.83	-17.38	-19.40	-17.38	-6.14	-7.69	-5.82	-4.34	-0.83	0.75	-6.97	
Value Added	3.48	-0.85	0.42	0.20	-0.85	0.20	1.32	1.10	1.88	N/A	N/A	N/A	1.89	
Wellington Management Company	18.44	-18.25	-12.46	-16.72	-18.25	-16.72	-3.55	-3.82	-2.30	N/A	N/A	N/A	-2.18	01/01/2007
<i>Blended Benchmark (Wellington)</i>	13.82	-20.75	-15.73	-19.95	-20.75	-19.95	-3.90	-4.17	-1.76	N/A	N/A	N/A	-1.49	
Value Added	4.62	2.50	3.27	3.23	2.50	3.23	0.35	0.35	-0.54	N/A	N/A	N/A	-0.69	
Gold Composite (unlevered)	12.07	17.13	21.04	25.67	17.13	25.67	10.93	7.38	N/A	N/A	N/A	N/A	1.00	06/01/2012
<i>Bloomberg Gold Subindex Total Return</i>	12.07	17.13	21.04	25.67	17.13	25.67	12.16	8.07	3.03	9.00	8.81	6.06	1.05	
Value Added	0.00	0.00	0.00	0.00	0.00	0.00	-1.23	-0.69	N/A	N/A	N/A	N/A	-0.05	
PSERS Gold (Long)	12.07	17.13	21.04	25.67	17.13	25.67	12.16	N/A	N/A	N/A	N/A	N/A	9.16	09/01/2015
<i>Bloomberg Gold Subindex Total Return</i>	12.07	17.13	21.04	25.67	17.13	25.67	12.16	8.07	3.03	9.00	8.81	6.06	9.16	
Value Added	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	0.00	

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## Trailing Period Performance

	Performance (%)													
	1 Quarter	2 Quarters Ending Jun-2020	3 Quarters Ending Jun-2020	FYTD	YTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
Public Real Estate Composite (unlevered/hedged)	8.28	-23.47	-22.56	-18.36	-23.47	-18.36	-1.38	1.94	5.55	4.53	8.50	N/A	7.54	07/01/1998
<i>Blended Policy (PTRES) (Hedged)</i>	9.15	-20.51	-19.76	-15.02	-20.51	-15.02	-0.47	1.93	6.49	4.15	7.97	N/A	7.08	
Value Added	-0.87	-2.96	-2.80	-3.34	-2.96	-3.34	-0.91	0.01	-0.94	0.38	0.53	N/A	0.46	
Insight Sierra Currency Hedge - REIT (notional)	-1.93	1.77	-0.04	2.69	1.77	2.69	2.16	N/A	N/A	N/A	N/A	N/A	0.91	12/01/2015
<i>Currency Hedge Benchmark - REIT</i>	-1.93	1.73	-0.06	2.72	1.73	2.72	2.23	N/A	N/A	N/A	N/A	N/A	1.00	
Value Added	0.00	0.04	0.02	-0.03	0.04	-0.03	-0.07	N/A	N/A	N/A	N/A	N/A	-0.09	
PSERS REIT Index (Long)	10.06	-21.34	-19.97	-16.26	-21.34	-16.26	-1.61	N/A	N/A	N/A	N/A	N/A	0.52	11/01/2015
<i>FTSE EPRA/NAREIT Developed Index (Net)</i>	10.07	-21.33	-19.96	-16.25	-21.33	-16.25	-1.60	1.27	6.30	4.06	N/A	N/A	0.52	
Value Added	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	N/A	N/A	N/A	N/A	N/A	0.00	
Security Capital Preferred Growth	9.15	-8.15	-6.42	-2.01	-8.15	-2.01	5.72	6.79	8.04	N/A	N/A	N/A	6.96	07/01/2008
<i>Wilshire US Real Estate Securities Index</i>	10.57	-17.89	-18.76	-12.39	-17.89	-12.39	0.22	4.20	9.34	5.97	9.42	9.61	6.26	
Value Added	-1.42	9.74	12.34	10.38	9.74	10.38	5.50	2.59	-1.30	N/A	N/A	N/A	0.70	
Private Real Assets	-3.08	-0.37	1.30	4.57	-0.37	4.57	N/A	N/A	N/A	N/A	N/A	N/A	6.31	06/01/2019
Private Infrastructure Composite	-3.86	0.24	0.68	3.42	0.24	3.42	11.20	N/A	N/A	N/A	N/A	N/A	10.67	05/01/2017
<i>FTSE Developed Core Infrastructure 50/50 Index (Net) 1Q Lag</i>	-21.64	-19.19	-17.47	-14.09	-19.19	-14.09	0.83	2.85	7.17	N/A	N/A	N/A	2.67	
Value Added	17.78	19.43	18.15	17.51	19.43	17.51	10.37	N/A	N/A	N/A	N/A	N/A	8.00	
Private Infrastructure ex Co-Invest	-4.04	-0.64	-0.07	3.01	-0.64	3.01	9.95	N/A	N/A	N/A	N/A	N/A	9.50	05/01/2017
PSERS Private Infrastructure Internal Co-Invest	-2.32	8.17	7.23	6.96	8.17	6.96	N/A	N/A	N/A	N/A	N/A	N/A	24.91	11/01/2018
Private Commodities Composite	-15.77	-18.49	-19.16	-22.40	-18.49	-22.40	N/A	N/A	N/A	N/A	N/A	N/A	-18.05	11/01/2018
Private Commodities ex Co-Invest	-17.51	-20.39	-21.08	-24.38	-20.39	-24.38	N/A	N/A	N/A	N/A	N/A	N/A	-19.22	11/01/2018
PSERS Private Commodities Internal Co-Invest	0.03	-0.01	-0.01	-0.01	-0.01	-0.01	N/A	N/A	N/A	N/A	N/A	N/A	-0.01	04/01/2019
Private Real Estate Composite	-2.56	0.24	2.08	5.58	0.24	5.58	9.09	9.09	11.31	6.78	8.40	N/A	9.21	07/01/1996
<i>Blended Policy (Private Real Estate)</i>	-3.48	-0.47	0.69	2.59	-0.47	2.59	7.63	8.07	10.44	8.31	8.77	9.39	9.45	
Value Added	0.92	0.71	1.39	2.99	0.71	2.99	1.46	1.02	0.87	-1.53	-0.37	N/A	-0.24	
Private Real Estate ex Internal Co-Invest	-2.57	0.25	2.09	5.58	0.25	5.58	9.00	8.99	11.24	6.22	7.99	N/A	8.79	07/01/1996
PSERS Real Estate Internal Co-Invest	-1.95	-0.37	1.43	5.30	-0.37	5.30	12.72	14.88	N/A	N/A	N/A	N/A	19.38	07/01/2013
Risk Parity Composite (vol adjusted)	10.65	-4.89	-2.16	0.14	-4.89	0.14	4.96	4.39	N/A	N/A	N/A	N/A	3.85	10/01/2012
<i>Blended Policy (Risk Parity)</i>	14.37	4.06	6.86	10.51	4.06	10.51	8.66	7.37	8.78	7.94	9.05	N/A	5.67	
Value Added	-3.72	-8.95	-9.02	-10.37	-8.95	-10.37	-3.70	-2.98	N/A	N/A	N/A	N/A	-1.82	
BlackRock Market Advantage II (vol adjusted)	9.26	-9.84	-7.15	-5.19	-9.84	-5.19	5.91	5.96	N/A	N/A	N/A	N/A	4.82	04/01/2015
Bridgewater All Weather @15% (vol adjusted)	9.47	-3.56	-0.88	0.85	-3.56	0.85	5.71	4.67	N/A	N/A	N/A	N/A	3.88	10/01/2012
Bridgewater Optimal @ 12% (vol adjusted)	7.18	-12.51	-10.41	-10.67	-12.51	-10.67	-1.81	N/A	N/A	N/A	N/A	N/A	-0.32	11/01/2015
DE Shaw Orienteer HV (vol adjusted)	6.03	-23.06	-20.12	-16.41	-23.06	-16.41	0.97	N/A	N/A	N/A	N/A	N/A	3.67	02/01/2016
PSERS Risk Parity Composite (vol adjusted to 12%)	14.30	3.26	6.09	8.86	3.26	8.86	7.33	6.56	N/A	N/A	N/A	N/A	5.01	02/01/2013
Total Absolute Return Composite	5.04	-3.26	-1.09	-0.49	-3.26	-0.49	2.23	2.38	3.92	N/A	N/A	N/A	4.34	10/01/2005
<i>Blended Policy (Absolute Return)</i>	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	6.36	
Value Added	-0.79	-1.72	-1.40	-2.23	-1.72	-2.23	-2.16	-1.96	-1.67	N/A	N/A	N/A	-2.02	
Aeolus Property Catastrophe Keystone PF Fund, LP	-1.85	-0.57	1.17	5.94	-0.57	5.94	-6.89	0.23	N/A	N/A	N/A	N/A	6.72	06/01/2012
<i>Blended Policy (Absolute Return)</i>	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	5.08	
Value Added	-7.68	0.97	0.86	4.20	0.97	4.20	-11.28	-4.11	N/A	N/A	N/A	N/A	1.64	
AKAZ Offshore Fund Ltd	6.92	41.71	37.48	31.25	41.71	31.25	N/A	N/A	N/A	N/A	N/A	N/A	15.69	01/01/2019
<i>Blended Policy (Absolute Return)</i>	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	3.20	
Value Added	1.09	43.25	37.17	29.51	43.25	29.51	N/A	N/A	N/A	N/A	N/A	N/A	12.49	
Bridgewater Pure Alpha Fund II, Ltd.	3.60	-20.38	-17.29	-16.63	-20.38	-16.63	-0.99	-1.48	7.67	N/A	N/A	N/A	9.04	01/01/2006
<i>Blended Policy (Absolute Return)</i>	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	6.33	



As of June 30, 2020

## Trailing Period Performance

	Performance (%)													
	1 Quarter	2 Quarters Ending Jun-2020	3 Quarters Ending Jun-2020	FYTD	YTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
Value Added	-2.23	-18.84	-17.60	-18.37	-18.84	-18.37	-5.38	-5.82	2.08	N/A	N/A	N/A	2.71	
Brigade Leveraged Capital Structures Offshore Fund, Ltd.	1.51	-15.81	-14.80	-15.36	-15.81	-15.36	-1.83	0.80	2.76	N/A	N/A	N/A	3.85	10/01/2007
Blended Policy (Absolute Return)	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	6.10	
Value Added	-4.32	-14.27	-15.11	-17.10	-14.27	-17.10	-6.22	-3.54	-2.83	N/A	N/A	N/A	-2.25	
Capula Global Relative Value Fund Limited	2.12	5.16	8.84	9.69	5.16	9.69	6.89	7.14	N/A	N/A	N/A	N/A	6.87	04/01/2011
Blended Policy (Absolute Return)	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	5.39	
Value Added	-3.71	6.70	8.53	7.95	6.70	7.95	2.50	2.80	N/A	N/A	N/A	N/A	1.48	
Capula Tail Risk Fund Limited	-6.88	13.13	12.63	13.22	13.13	13.22	2.18	0.58	N/A	N/A	N/A	N/A	-0.43	07/01/2011
Blended Policy (Absolute Return)	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	5.32	
Value Added	-12.71	14.67	12.32	11.48	14.67	11.48	-2.21	-3.76	N/A	N/A	N/A	N/A	-5.75	
Carlyle Aviation/SASOF III LP	9.21	-21.20	-13.80	-3.45	-21.20	-3.45	12.57	11.59	N/A	N/A	N/A	N/A	4.08	02/01/2015
Blended Policy (Absolute Return)	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	4.30	
Value Added	3.38	-19.66	-14.11	-5.19	-19.66	-5.19	8.18	7.25	N/A	N/A	N/A	N/A	-0.22	
Carlyle Aviation/SASOF IV LP	-5.01	-18.01	-20.87	-16.19	-18.01	-16.19	N/A	N/A	N/A	N/A	N/A	N/A	-0.69	04/01/2018
Blended Policy (Absolute Return)	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	4.15	
Value Added	-10.84	-16.47	-21.18	-17.93	-16.47	-17.93	N/A	N/A	N/A	N/A	N/A	N/A	-4.84	
Carlyle Aviation/SASOF V LP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-40.53	05/01/2020
Blended Policy (Absolute Return)	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	3.94	
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-44.47	
Caspian Keystone Focused Fund, LP	8.56	6.45	9.57	16.53	6.45	16.53	12.16	N/A	N/A	N/A	N/A	N/A	12.50	06/01/2016
Blended Policy (Absolute Return)	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	4.42	
Value Added	2.73	7.99	9.26	14.79	7.99	14.79	7.77	N/A	N/A	N/A	N/A	N/A	8.08	
Caspian Select Credit International, Ltd.	8.60	-4.59	-2.61	-2.97	-4.59	-2.97	1.47	1.41	N/A	N/A	N/A	N/A	2.63	04/01/2011
Blended Policy (Absolute Return)	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	5.39	
Value Added	2.77	-3.05	-2.92	-4.71	-3.05	-4.71	-2.92	-2.93	N/A	N/A	N/A	N/A	-2.76	
Falko Regional Aircraft Opportunities Fund II	-20.93	-25.54	-27.82	N/A	-25.54	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-28.50	08/01/2019
Blended Policy (Absolute Return)	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	1.25	
Value Added	-26.76	-24.00	-28.13	N/A	-24.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-29.75	
Garda Fixed Income Relative Value Opportunity Fund Ltd.	7.05	13.75	16.12	18.64	13.75	18.64	9.38	7.87	N/A	N/A	N/A	N/A	6.96	01/01/2012
Blended Policy (Absolute Return)	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	5.19	
Value Added	1.22	15.29	15.81	16.90	15.29	16.90	4.99	3.53	N/A	N/A	N/A	N/A	1.77	
HS Group Sponsor Fund II, Ltd.	15.75	7.61	10.75	8.77	7.61	8.77	N/A	N/A	N/A	N/A	N/A	N/A	1.67	06/01/2018
Blended Policy (Absolute Return)	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	4.01	
Value Added	9.92	9.15	10.44	7.03	9.15	7.03	N/A	N/A	N/A	N/A	N/A	N/A	-2.34	
Independence Reinsurance Partners Composite	3.44	6.64	4.53	8.09	6.64	8.09	-3.20	N/A	N/A	N/A	N/A	N/A	0.39	02/01/2016
Blended Policy (Absolute Return)	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	4.40	
Value Added	-2.39	8.18	4.22	6.35	8.18	6.35	-7.59	N/A	N/A	N/A	N/A	N/A	-4.01	
DaVinci Reinsurance Ltd.	5.75	12.15	10.01	12.46	12.15	12.46	-0.35	N/A	N/A	N/A	N/A	N/A	3.47	02/01/2016
RenaissanceRe Medici Fund Ltd.	1.89	1.49	2.68	5.92	1.49	5.92	3.34	N/A	N/A	N/A	N/A	N/A	3.99	02/01/2016
Upsilon Diversified Fund Ltd.	2.96	6.87	2.55	6.93	6.87	6.93	-25.24	N/A	N/A	N/A	N/A	N/A	-21.35	01/01/2017
Nephila/Nimbus Weather Fund	-1.28	-0.98	-0.27	0.92	-0.98	0.92	N/A	N/A	N/A	N/A	N/A	N/A	0.18	01/01/2018
Blended Policy (Absolute Return)	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	4.28	
Value Added	-7.11	0.56	-0.58	-0.82	0.56	-0.82	N/A	N/A	N/A	N/A	N/A	N/A	-4.10	
Nephila/Palmetto Fund Ltd.	1.28	1.02	-1.07	0.95	1.02	0.95	-2.89	-0.11	N/A	N/A	N/A	N/A	2.97	07/01/2011
Blended Policy (Absolute Return)	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	5.32	
Value Added	-4.55	2.56	-1.38	-0.79	2.56	-0.79	-7.28	-4.45	N/A	N/A	N/A	N/A	-2.35	
Oceanwood Investments SPC Co-Invest	14.61	-21.97	-15.45	-17.71	-21.97	-17.71	N/A	N/A	N/A	N/A	N/A	N/A	0.06	10/01/2018



As of June 30, 2020

## Trailing Period Performance

	Performance (%)													
	1 Quarter	2 Quarters Ending Jun-2020	3 Quarters Ending Jun-2020	FYTD	YTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
<i>Blended Policy (Absolute Return)</i>	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	3.64	
Value Added	8.78	-20.43	-15.76	-19.45	-20.43	-19.45	N/A	N/A	N/A	N/A	N/A	N/A	-3.58	
Oceanwood Opportunities Fund	28.71	-1.48	2.67	2.99	-1.48	2.99	3.12	3.08	N/A	N/A	N/A	N/A	4.00	09/01/2014
<i>Blended Policy (Absolute Return)</i>	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	4.26	
Value Added	22.88	0.06	2.36	1.25	0.06	1.25	-1.27	-1.26	N/A	N/A	N/A	N/A	-0.26	
OWS Credit Opportunity Offshore Fund III, Ltd.	8.16	-9.87	-8.48	-7.16	-9.87	-7.16	3.86	N/A	N/A	N/A	N/A	N/A	6.39	12/01/2015
<i>Blended Policy (Absolute Return)</i>	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	4.39	
Value Added	2.33	-8.33	-8.79	-8.90	-8.33	-8.90	-0.53	N/A	N/A	N/A	N/A	N/A	2.00	
Perry Partners LP	2.73	-16.23	-21.76	-20.68	-16.23	-20.68	-5.48	-5.77	N/A	N/A	N/A	N/A	-5.14	12/01/2013
<i>Blended Policy (Absolute Return)</i>	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	4.53	
Value Added	-3.10	-14.69	-22.07	-22.42	-14.69	-22.42	-9.87	-10.11	N/A	N/A	N/A	N/A	-9.67	
PIMCO PARS/GCOF/MAV/PCAF Composite	12.98	-4.78	-0.06	-2.46	-4.78	-2.46	0.94	1.03	3.93	N/A	N/A	N/A	5.17	03/01/2008
<i>Blended Policy (Absolute Return)</i>	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	6.04	
Value Added	7.15	-3.24	-0.37	-4.20	-3.24	-4.20	-3.45	-3.31	-1.66	N/A	N/A	N/A	-0.87	
PIMCO Absolute Return Strategy V Offshore Fund, Ltd.	17.42	-23.30	-16.26	-12.02	-23.30	-12.02	-3.87	-1.85	N/A	N/A	N/A	N/A	2.10	10/01/2012
PIMCO Global Credit Opportunity Offshore Fund, Ltd.	3.72	7.89	7.22	-3.60	7.89	-3.60	1.82	3.33	N/A	N/A	N/A	N/A	5.86	10/01/2012
PIMCO Commodity Alpha Fund	18.97	1.91	8.03	6.58	1.91	6.58	8.37	12.56	N/A	N/A	N/A	N/A	10.86	03/01/2015
Two Sigma Risk Premia Enhanced Fund, LP	-1.46	-13.27	-12.63	-11.70	-13.27	-11.70	-0.96	N/A	N/A	N/A	N/A	N/A	N/A	04/01/2017
<i>Blended Policy (Absolute Return)</i>	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	4.42	
Value Added	-7.29	-11.73	-12.94	-13.44	-11.73	-13.44	-5.35	N/A	N/A	N/A	N/A	N/A	N/A	
Venor Capital Offshore, Ltd.	7.44	-3.82	-0.40	0.30	-3.82	0.30	4.42	N/A	N/A	N/A	N/A	N/A	3.87	09/01/2016
<i>Blended Policy (Absolute Return)</i>	5.83	-1.54	0.31	1.74	-1.54	1.74	4.39	4.34	5.59	6.38	6.79	7.03	4.43	
Value Added	1.61	-2.28	-0.71	-1.44	-2.28	-1.44	0.03	N/A	N/A	N/A	N/A	N/A	-0.56	
Cash & Cash Equivalents	0.24	0.65	1.14	1.67	0.65	1.67	1.89	1.15	0.75	0.34	0.25	N/A	0.31	07/01/1998
<i>ICE BofAML US Treasury Bills 0-3M</i>	0.02	0.49	0.93	1.47	0.49	1.47	1.68	1.12	0.59	1.27	1.57	2.29	1.88	
Value Added	0.22	0.16	0.21	0.20	0.16	0.20	0.21	0.03	0.16	-0.93	-1.32	N/A	-1.57	
PSERS Cash Management	0.31	0.72	1.21	1.79	0.72	1.79	1.98	1.27	0.85	0.32	0.28	0.87	2.40	07/01/1985
PSERS Derivatives Collateral	0.11	0.50	0.96	1.36	0.50	1.36	N/A	N/A	N/A	N/A	N/A	N/A	1.69	01/01/2018

As of June 30, 2020

## Trailing Period Performance

	Performance (%)													
	1 Quarter	2 Quarters Ending Jun-2020	3 Quarters Ending Jun-2020	FYTD	YTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	Inception Date
<b>Financing Composite</b>	0.09	0.49	0.92	1.44	0.49	1.44	N/A	N/A	N/A	N/A	N/A	N/A	1.44	07/01/2019
<i>ICE BofAML USD 3-Mo Deposit Offered Rate Average Index</i>	0.27	0.73	1.26	1.86	0.73	1.86	2.04	1.50	N/A	N/A	N/A	N/A	1.86	
Value Added	-0.18	-0.24	-0.34	-0.42	-0.24	-0.42	N/A	N/A	N/A	N/A	N/A	N/A	-0.42	
<b>PSERS Commodity Beta (Short/Financing)</b>	-0.18	0.14	0.48	0.91	0.14	0.91	N/A	N/A	N/A	N/A	N/A	N/A	0.91	07/01/2019
<i>FTSE 1 Month T-Bill</i>	0.02	0.40	0.84	1.37	0.40	1.37	1.64	1.09	0.56	1.20	1.49	2.15	1.37	
Value Added	-0.20	-0.26	-0.36	-0.46	-0.26	-0.46	N/A	N/A	N/A	N/A	N/A	N/A	-0.46	
<b>PSERS Gold (Short/Financing)</b>	0.00	0.31	0.71	1.25	0.31	1.25	N/A	N/A	N/A	N/A	N/A	N/A	1.25	07/01/2019
<i>FTSE 1 Month T-Bill</i>	0.02	0.40	0.84	1.37	0.40	1.37	1.64	1.09	0.56	1.20	1.49	2.15	1.37	
Value Added	-0.02	-0.09	-0.13	-0.12	-0.09	-0.12	N/A	N/A	N/A	N/A	N/A	N/A	-0.12	
<b>PSERS Infrastructure Index (Short/Financing)</b>	0.03	0.38	0.68	1.00	0.38	1.00	N/A	N/A	N/A	N/A	N/A	N/A	1.00	07/01/2019
<i>ICE BofAML USD 3-Mo Deposit Offered Rate Average Index</i>	0.27	0.73	1.26	1.86	0.73	1.86	2.04	1.50	N/A	N/A	N/A	N/A	1.86	
Value Added	-0.24	-0.35	-0.58	-0.86	-0.35	-0.86	N/A	N/A	N/A	N/A	N/A	N/A	-0.86	
<b>PSERS REIT Index (Short/Financing)</b>	0.04	0.43	0.72	0.99	0.43	0.99	N/A	N/A	N/A	N/A	N/A	N/A	0.99	07/01/2019
<i>ICE BofAML USD 3-Mo Deposit Offered Rate Average Index</i>	0.27	0.73	1.26	1.86	0.73	1.86	2.04	1.50	N/A	N/A	N/A	N/A	1.86	
Value Added	-0.23	-0.30	-0.54	-0.87	-0.30	-0.87	N/A	N/A	N/A	N/A	N/A	N/A	-0.87	
<b>PSERS TIPS Swap (Short/Financing)</b>	0.32	0.85	1.41	2.05	0.85	2.05	N/A	N/A	N/A	N/A	N/A	N/A	2.05	07/01/2019
<i>ICE BofAML USD 3-Mo Deposit Offered Rate Average Index</i>	0.27	0.73	1.26	1.86	0.73	1.86	2.04	1.50	N/A	N/A	N/A	N/A	1.86	
Value Added	0.05	0.12	0.15	0.19	0.12	0.19	N/A	N/A	N/A	N/A	N/A	N/A	0.19	

The Short/Financing segments represent leverage, and therefore have negative asset balances. Due to the negative asset balance, a negative value-added relative to the benchmark represents outperformance, while a positive value added represents underperformance.

As of June 30, 2020

## Trailing Period Performance

	Performance (%)													Inception Date
	1 Quarter	2 Quarters Ending Jun-2020	3 Quarters Ending Jun-2020	FYTD	YTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years	Since Inception	
<b>PSERS Ultra Short Duration</b>	0.30	0.60	1.10	1.68	0.60	1.68	1.91	1.36	0.80	N/A	N/A	N/A	0.81	01/01/2009
<i>ICE BofAML US Treasury Bills 0-3M</i>	0.02	0.49	0.93	1.47	0.49	1.47	1.68	1.12	0.59	1.27	1.57	2.29	0.53	
Value Added	0.28	0.11	0.17	0.21	0.11	0.21	0.23	0.24	0.21	N/A	N/A	N/A	0.28	
<b>LIBOR Composite</b>	2.29	1.27	1.89	2.71	1.27	2.71	2.55	2.09	1.56	N/A	N/A	N/A	2.06	01/01/2007
<i>LIBOR Plus Hybrid</i>	0.27	0.73	1.26	1.86	0.73	1.86	2.04	1.50	0.91	1.74	2.01	N/A	1.41	
Value Added	2.02	0.54	0.63	0.85	0.54	0.85	0.51	0.59	0.65	N/A	N/A	N/A	0.65	
<b>Penn Mutual Asset Management</b>	5.45	-0.88	-0.28	0.60	-0.88	0.60	2.18	N/A	N/A	N/A	N/A	N/A	2.19	06/01/2017
<i>LIBOR Plus Hybrid</i>	0.27	0.73	1.26	1.86	0.73	1.86	2.04	1.50	0.91	1.74	2.01	N/A	2.01	
Value Added	5.18	-1.61	-1.54	-1.26	-1.61	-1.26	0.14	N/A	N/A	N/A	N/A	N/A	0.18	
<b>PSERS LIBOR Plus</b>	1.47	0.62	1.21	1.94	0.62	1.94	2.25	1.82	1.28	N/A	N/A	N/A	1.87	01/01/2007
<i>LIBOR Plus Hybrid</i>	0.27	0.73	1.26	1.86	0.73	1.86	2.04	1.50	0.91	1.74	2.01	N/A	1.41	
Value Added	1.20	-0.11	-0.05	0.08	-0.11	0.08	0.21	0.32	0.37	N/A	N/A	N/A	0.46	
<b>Radcliffe Ultra Short Duration</b>	3.81	1.18	2.00	3.02	1.18	3.02	3.19	3.20	N/A	N/A	N/A	N/A	2.93	06/01/2012
<i>Blended Benchmark (Radcliffe Ultra Short)</i>	0.36	0.81	1.33	1.93	0.81	1.93	2.09	1.55	0.93	1.70	1.93	2.69	1.06	
Value Added	3.45	0.37	0.67	1.09	0.37	1.09	1.10	1.65	N/A	N/A	N/A	N/A	1.87	
<b>PSERS Healthcare &amp; HOP</b>														
<b>PSERS Healthcare - HOP</b>	0.27	0.60	1.11	1.69	0.60	1.69	1.92	1.38	0.82	1.62	N/A	N/A	1.68	02/01/2002
<i>ICE BofAML 3 Month U.S. T-Bill</i>	0.02	0.60	1.06	1.63	0.60	1.63	1.77	1.19	0.64	1.34	1.66	2.38	1.39	
Value Added	0.25	0.00	0.05	0.06	0.00	0.06	0.15	0.19	0.18	0.28	N/A	N/A	0.29	
<b>PSERS Healthcare - Premium Assist</b>	0.59	0.80	1.35	1.98	0.80	1.98	2.09	1.57	1.08	2.06	2.43	N/A	2.80	01/01/1998
<i>ICE BofAML 3 Month U.S. T-Bill</i>	0.02	0.60	1.06	1.63	0.60	1.63	1.77	1.19	0.64	1.34	1.66	2.38	2.05	
Value Added	0.57	0.20	0.29	0.35	0.20	0.35	0.32	0.38	0.44	0.72	0.77	N/A	0.75	
<b>E/M Total Program Composite</b>	8.10	-0.89	0.61	2.53	-0.89	2.53	3.53	3.46	5.62	4.33	3.01	N/A	3.34	01/01/2000
<b>E/M Short Duration Cash</b>	8.10	-0.89	0.61	2.46	-0.89	2.46	3.54	3.77	N/A	N/A	N/A	N/A	3.77	10/01/2014
<b>Radcliffe Ultra Short Duration</b>	3.81	1.18	2.00	3.02	1.18	3.02	3.19	3.20	N/A	N/A	N/A	N/A	2.93	06/01/2012
<i>Blended Benchmark (Radcliffe Ultra Short)</i>	0.36	0.81	1.33	1.93	0.81	1.93	2.09	1.55	0.93	1.70	1.93	2.69	1.06	
Value Added	3.45	0.37	0.67	1.09	0.37	1.09	1.10	1.65	N/A	N/A	N/A	N/A	1.87	
<b>Radcliffe Specialty Finance Debt</b>	10.93	-3.03	-1.04	1.41	-3.03	1.41	3.60	4.10	N/A	N/A	N/A	N/A	4.09	10/01/2014
<i>3-Month Libor + 0.60%</i>	0.42	1.03	1.71	2.43	1.03	2.43	2.67	2.14	1.52	2.30	2.54	3.30	1.97	
Value Added	10.51	-4.06	-2.75	-1.02	-4.06	-1.02	0.93	1.96	N/A	N/A	N/A	N/A	2.12	

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## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
<b>PSERS Total Fund</b>	12.95	0.55	12.19	10.83	-1.43	8.73	8.63	11.35	4.31	14.22
<i>Blended Policy (Total Plan)</i>	14.25	0.25	11.97	10.38	-1.48	8.71	7.70	10.19	3.70	11.98
Value Added	-1.30	0.30	0.22	0.45	0.05	0.02	0.93	1.16	0.61	2.24
<b>Total Public Global and Private Equity Exposure (hedged)</b>	16.53	1.32	19.44	9.51	3.86	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Total Equity Exposure)</i>	16.56	2.07	19.51	9.49	2.64	N/A	N/A	N/A	N/A	N/A
Value Added	-0.03	-0.75	-0.07	0.02	1.22	N/A	N/A	N/A	N/A	N/A
<b>Total Public Global Equity Composite (hedged)</b>	26.11	-8.20	22.26	9.23	5.10	8.00	24.43	17.07	-6.96	16.95
<i>Blended Policy (Public Equity) (Hedged)</i>	25.37	-9.06	22.74	8.89	-0.51	7.93	24.18	16.73	-7.83	14.34
Value Added	0.74	0.86	-0.48	0.34	5.61	0.07	0.25	0.34	0.87	2.61
<b>Total US Equity Composite</b>	31.17	-6.08	19.21	16.49	0.15	11.71	34.04	15.65	1.65	18.37
<i>Blended Policy (Tot US Eq)</i>	30.71	-5.20	21.28	12.66	0.64	12.51	33.39	16.42	0.80	16.52
Value Added	0.46	-0.88	-2.07	3.83	-0.49	-0.80	0.65	-0.77	0.85	1.85
<b>PSERS-S&amp;P 500 Index Composite</b>	33.17	-4.94	20.69	13.90	1.43	13.66	32.85	16.09	2.03	16.03
<i>S&amp;P 500 Index</i>	31.49	-4.38	21.83	11.96	1.38	13.69	32.39	16.00	2.11	15.06
Value Added	1.68	-0.56	-1.14	1.94	0.05	-0.03	0.46	0.09	-0.08	0.97
<b>Radcliffe Specialty Finance Debt</b>	10.26	1.83	5.47	5.97	3.22	N/A	N/A	N/A	N/A	N/A
<i>3-Month Libor + 0.60%</i>	3.00	2.95	1.88	1.35	0.92	0.84	0.87	1.03	0.94	0.95
Value Added	7.26	-1.12	3.59	4.62	2.30	N/A	N/A	N/A	N/A	N/A
<b>PSERS-S&amp;P 400 Index Composite</b>	26.27	-10.98	16.49	21.34	-2.20	9.87	33.45	18.78	-1.60	27.42
<i>S&amp;P MidCap 400</i>	26.20	-11.08	16.24	20.74	-2.18	9.77	33.50	17.88	-1.73	26.64
Value Added	0.07	0.10	0.25	0.60	-0.02	0.10	-0.05	0.90	0.13	0.78
<b>PSERS-S&amp;P 600 Index Composite</b>	22.96	-8.27	13.53	28.05	-1.47	6.23	43.13	17.70	1.64	27.47
<i>S&amp;P SmallCap 600</i>	22.78	-8.48	13.23	26.56	-1.97	5.76	41.31	16.33	1.02	26.31
Value Added	0.18	0.21	0.30	1.49	0.50	0.47	1.82	1.37	0.62	1.16
<b>Total Non-U.S. Equity Composite (hedged)</b>	26.55	-11.76	24.78	5.15	9.59	4.81	15.95	18.39	-13.34	16.00
<i>Blended Policy (Total Non-US Eq) (Hedged)</i>	22.92	-11.96	23.62	6.43	-0.50	3.97	16.36	17.03	-14.30	12.73
Value Added	3.63	0.20	1.16	-1.28	10.09	0.84	-0.41	1.36	0.96	3.27
<b>Total Non-U.S. Equity x Emerging Markets Composite (hedged)</b>	27.31	-11.71	24.30	5.60	12.82	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Non-US Equity x EM) (Hedged)</i>	22.75	-11.87	23.03	6.25	0.66	4.75	16.36	17.03	-14.30	12.73
Value Added	4.56	0.16	1.27	-0.65	12.16	N/A	N/A	N/A	N/A	N/A
<b>Insight Everest Currency Hedge - Int'l Eq (notional)</b>	1.42	5.95	-6.57	4.02	7.13	10.98	-0.37	-1.46	0.00	1.39
<i>Currency Hedge Benchmark - Int'l Eq</i>	1.56	5.98	-6.46	4.18	7.24	11.05	-1.39	0.00	0.00	0.00
Value Added	-0.14	-0.03	-0.11	-0.16	-0.11	-0.07	1.02	-1.46	0.00	1.39
<b>Non-US Large/Mid Cap Equity Composite</b>	26.40	-13.84	29.17	3.99	6.77	-3.76	17.33	17.78	-11.96	12.69
<i>Blended Policy (MSCI World AC World ex USA net)</i>	21.51	-14.20	27.19	4.50	-5.66	-3.87	15.29	16.83	-13.71	11.15
Value Added	4.89	0.36	1.98	-0.51	12.43	0.11	2.04	0.95	1.75	1.54
<b>PSERS ACWI x US Fund</b>	22.89	-13.83	28.03	5.35	-5.24	-3.41	16.07	17.57	-13.06	11.85
<i>MSCI ACWI/EAFE Index Blend</i>	21.51	-14.20	27.19	4.50	-5.66	-3.87	15.29	16.83	-13.71	11.15

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## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Value Added	1.38	0.37	0.84	0.85	0.42	0.46	0.78	0.74	0.65	0.70
BlackRock EMEA	17.13	-13.60	40.71	13.37	N/A	N/A	N/A	N/A	N/A	N/A
<i>MSCI Emerging Markets Index (Net)</i>	18.44	-14.58	37.28	11.19	-14.92	-2.19	-2.60	18.23	-18.42	18.88
Value Added	-1.31	0.98	3.43	2.18	N/A	N/A	N/A	N/A	N/A	N/A
Active Non-US Large/Mid Cap Composite	29.89	-13.85	30.77	2.28	1.15	-4.73	19.34	18.60	-8.26	15.23
<i>MSCI AC World ex USA Index (Net)</i>	21.51	-14.20	27.19	4.50	-5.66	-3.87	15.29	16.83	-13.71	11.15
Value Added	8.38	0.35	3.58	-2.22	6.81	-0.86	4.05	1.77	5.45	4.08
Baillie Gifford	32.51	-16.41	35.09	5.65	-1.91	-2.19	17.46	21.25	-11.41	15.75
<i>MSCI AC World ex USA Index (Net)</i>	21.51	-14.20	27.19	4.50	-5.66	-3.87	15.29	16.83	-13.71	11.15
Value Added	11.00	-2.21	7.90	1.15	3.75	1.68	2.17	4.42	2.30	4.60
BlackRock Emerging Markets Alpha Advantage Fund Ltd	16.88	-13.00	41.88	13.99	-4.61	0.42	0.71	26.62	-5.74	33.19
<i>MSCI Emerging Markets Index (Net)</i>	18.44	-14.58	37.28	11.19	-14.92	-2.19	-2.60	18.23	-18.42	18.88
Value Added	-1.56	1.58	4.60	2.80	10.31	2.61	3.31	8.39	12.68	14.31
Effissimo Capital Partners Feeder Fund 2 LP	27.81	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>MSCI Japan in LC (Net)</i>	18.48	-15.15	19.75	-0.74	9.93	9.48	54.58	21.57	-18.73	0.57
Value Added	9.33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Marathon Asset Mgmt	24.46	-13.16	26.05	1.25	3.53	-5.35	25.79	18.82	-9.23	17.59
<i>Blended Benchmark (MSCI ACWI ex USA net)</i>	21.51	-14.20	27.19	4.50	-5.66	-3.87	15.29	16.83	-13.71	11.15
Value Added	2.95	1.04	-1.14	-3.25	9.19	-1.48	10.50	1.99	4.48	6.44
The Children's Investment Fund, LP	42.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>MSCI World Index (Net)</i>	27.67	-8.71	22.40	7.51	-0.87	4.94	26.68	15.83	-5.54	11.76
Value Added	14.43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-US Small Cap Equity Composite	25.20	-19.07	36.26	-0.91	9.34	-3.47	30.37	25.17	-15.55	29.62
<i>MSCI AC World ex USA Small Cap (Net)</i>	22.42	-18.20	31.65	3.91	2.60	-4.03	19.73	18.52	-18.50	25.21
Value Added	2.78	-0.87	4.61	-4.82	6.74	0.56	10.64	6.65	2.95	4.41
Acadian Asset Mgmt	20.12	-18.36	37.99	8.76	3.08	-0.19	24.86	25.11	-16.94	26.02
<i>Blended Benchmark (MSCI AC World ex USA Small Cap net)</i>	22.42	-18.20	31.65	3.91	2.60	-4.03	19.73	18.52	-18.50	25.21
Value Added	-2.30	-0.16	6.34	4.85	0.48	3.84	5.13	6.59	1.56	0.81
Oberweis Asset Mgmt	24.55	-23.62	41.55	-4.84	16.17	-2.82	59.12	31.95	-14.60	31.03
<i>MSCI AC World ex USA Small Cap (Net)</i>	22.42	-18.20	31.65	3.91	2.60	-4.03	19.73	18.52	-18.50	25.21
Value Added	2.13	-5.42	9.90	-8.75	13.57	1.21	39.39	13.43	3.90	5.82
QS Investors	21.77	-20.01	31.70	3.28	4.60	-0.18	26.34	21.71	-12.22	26.52
<i>MSCI AC World ex USA Small Cap (Net)</i>	22.42	-18.20	31.65	3.91	2.60	-4.03	19.73	18.52	-18.50	25.21
Value Added	-0.65	-1.81	0.05	-0.63	2.00	3.85	6.61	3.19	6.28	1.31
Wasatch Int'l Small Cap	31.44	-14.32	33.33	-7.75	14.73	-7.31	28.25	33.41	-13.75	34.70
<i>Blended Benchmark (MSCI AC World ex USA Small Cap net)</i>	22.42	-18.20	31.65	3.91	2.60	-4.03	19.73	18.52	-18.50	25.21
Value Added	9.02	3.88	1.68	-11.66	12.13	-3.28	8.52	14.89	4.75	9.49
Emerging Markets Equity Composite	18.07	-15.70	35.73	-3.95	-32.75	1.48	-0.24	21.03	-17.81	17.04
<i>Blended Policy (EM)</i>	17.65	-15.05	37.58	11.19	-14.92	-2.19	-2.60	18.23	-18.42	18.87

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## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Value Added	0.42	-0.65	-1.85	-15.14	-17.83	3.67	2.36	2.80	0.61	-1.83
<i>MSCI Emerging Markets IMI (Net)</i>	17.65	-15.05	36.83	9.90	-13.86	-1.79	-2.20	18.69	-19.49	19.90
Value Added	0.42	-0.65	-1.10	-13.85	-18.89	3.27	1.96	2.34	1.68	-2.86
Cederberg China Equity Fund	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>MSCI Golden Dragon Index (Net)</i>	23.78	-14.80	43.79	5.40	-7.43	7.72	6.89	22.19	-18.67	13.24
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Steadview Capital Partners LP	-2.60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Nifty 50 Index</i>	12.12	4.72	30.27	4.48	-2.76	33.48	8.47	29.92	-23.62	19.54
Value Added	-14.72	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wasatch EM Small Cap	28.27	-16.33	35.73	-3.95	-10.36	2.13	1.87	28.06	-12.98	42.87
<i>Blended Policy (Wasatch EM)</i>	12.96	-17.34	33.33	4.03	-9.81	1.49	1.01	22.60	-26.96	27.47
Value Added	15.31	1.01	2.40	-7.98	-0.55	0.64	0.86	5.46	13.98	15.40
Total Private Equity (hedged)	7.00	14.47	16.09	9.78	2.38	10.03	12.73	13.27	9.96	15.58
<i>Burgiss Private Equity (1Q Lag)</i>	8.24	15.77	15.66	8.74	7.39	15.79	15.05	12.02	12.77	16.00
Value Added	-1.24	-1.30	0.43	1.04	-5.01	-5.76	-2.32	1.25	-2.81	-0.42
Private Equity Composite (Buyout/Venture/Special Situations/Co-Invest)	6.84	14.52	16.11	9.59	2.39	10.03	12.71	N/A	N/A	N/A
Insight Wilson Currency Hedge - PE Internal Co-Invest (1Q Lag)(Notional)	9.09	4.51	-2.90	3.31	N/A	N/A	N/A	N/A	N/A	N/A
<i>Currency Hedge Benchmark - PE (1Q Lag)</i>	9.16	4.48	-2.78	3.51	N/A	N/A	N/A	N/A	N/A	N/A
Value Added	-0.07	0.03	-0.12	-0.20	N/A	N/A	N/A	N/A	N/A	N/A
PSERS Private Equity Internal Co-Invest Composite	9.48	8.34	23.34	27.85	26.47	37.82	39.75	N/A	N/A	N/A
PSERS Private Equity Internal Co-Invest ex PA	10.03	7.52	21.35	28.67	26.48	37.82	39.75	N/A	N/A	N/A
PSERS Private Equity Internal Pennsylvania Co-Invest Composite	5.43	14.75	43.44	12.12	N/A	N/A	N/A	N/A	N/A	N/A
Special Situations Composite	1.70	11.46	8.28	1.58	0.50	12.79	12.21	13.49	2.43	19.36
Buyout/Venture Capital-Growth Equity Composite	7.55	15.61	16.92	10.08	1.97	9.30	12.53	13.20	12.00	14.24
Buyout	6.56	14.36	18.02	10.41	1.29	8.82	13.12	12.89	13.13	15.04
Buyout x Tobacco Composite	6.56	14.36	18.02	10.41	1.75	8.82	13.12	12.89	13.13	15.04
Venture Capital - Growth Equity	12.73	22.15	11.23	8.19	6.92	13.50	7.10	15.97	2.26	7.84
Total Fixed Income Exposure	9.80	2.09	7.96	10.94	-0.70	10.29	-2.52	11.76	9.54	14.11
<i>Blended Policy (Total FI)</i>	11.36	-0.43	5.10	9.49	-2.62	5.19	-4.69	9.86	7.27	10.27
Value Added	-1.56	2.52	2.86	1.45	1.92	5.10	2.17	1.90	2.27	3.84
Global Fixed Income Composite	9.73	-1.25	7.11	4.64	-1.00	3.66	-1.89	N/A	N/A	N/A
<i>Blended Policy (Global FI)</i>	9.15	-0.23	5.01	4.55	-3.35	2.65	-2.76	7.49	5.36	8.07
Value Added	0.58	-1.02	2.10	0.09	2.35	1.01	0.87	N/A	N/A	N/A
Total US Fixed Income Composite	8.84	2.24	7.93	11.28	0.35	12.94	-2.44	11.42	10.83	14.58
<i>Blended Policy (Total US FI)</i>	12.66	-0.35	4.87	9.61	-1.72	5.60	-2.92	9.48	8.46	10.45
Value Added	-3.82	2.59	3.06	1.67	2.07	7.34	0.48	1.94	2.37	4.13
Total US Fixed Income ex TIPS Composite	9.63	2.98	10.04	8.22	1.27	13.46	3.53	13.15	4.98	13.50
Investment Grade Composite	11.60	-3.54	9.46	2.62	-0.39	N/A	N/A	N/A	N/A	N/A

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## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
<i>Blended Policy (Investment Grade)</i>	12.48	0.40	5.11	2.23	-0.58	11.06	-5.59	4.39	14.57	7.30
Value Added	-0.88	-3.94	4.35	0.39	0.19	N/A	N/A	N/A	N/A	N/A
<b>US Core Plus Fixed Income Composite</b>	9.43	-1.47	6.25	3.95	1.55	7.12	-0.86	8.06	9.31	10.25
<i>Blended Policy (Barclays Aggregate Index)</i>	8.72	0.01	3.54	2.65	0.55	5.97	-2.02	4.21	7.06	7.16
Value Added	0.71	-1.48	2.71	1.30	1.00	1.15	1.16	3.85	2.25	3.09
<b>BlackRock Global Alpha</b>	12.84	-5.50	8.99	4.31	2.25	7.79	1.52	12.05	11.18	13.67
<i>Blended Policy (Barclays Aggregate Index)</i>	8.72	0.01	3.54	2.65	0.55	5.97	-2.02	4.21	7.06	7.16
Value Added	4.12	-5.51	5.45	1.66	1.70	1.82	3.54	7.84	4.12	6.51
<b>PSERS Active Core Plus Fixed Income</b>	7.56	1.36	4.26	3.50	1.59	7.27	-2.01	5.78	9.34	8.54
<i>Blmbg. Barc. U.S. Aggregate</i>	8.72	0.01	3.54	2.65	0.55	5.97	-2.02	4.21	7.84	6.54
Value Added	-1.16	1.35	0.72	0.85	1.04	1.30	0.01	1.57	1.50	2.00
<b>SEI Investment Management</b>	4.17	0.85	7.83	7.34	0.04	N/A	N/A	N/A	N/A	N/A
<i>ICE BofAML 1-3 Year U.S. Corporate</i>	5.43	1.62	1.91	2.39	1.01	1.19	1.78	4.49	1.76	4.86
Value Added	-1.26	-0.77	5.92	4.95	-0.97	N/A	N/A	N/A	N/A	N/A
<b>Non-U.S. Developed Markets Fixed Income Composite</b>	2.81	0.42	3.43	6.23	-6.07	-1.09	-2.49	7.16	3.79	8.63
<i>Blended Policy (Barclays GlobalAgg GDP Weighted Dev xUS hedged)</i>	8.07	2.88	2.79	4.90	-5.56	-2.28	-1.49	6.70	4.48	5.84
Value Added	-5.26	-2.46	0.64	1.33	-0.51	1.19	-1.00	0.46	-0.69	2.79
<b>Alliance Bernstein Global Fixed</b>	2.81	0.42	3.43	6.23	-5.71	-1.80	-1.82	7.30	N/A	N/A
<i>Spliced Barclays GlobalAgg GDPWeighted Dev xUS</i>	8.07	2.88	2.79	4.90	-5.56	-2.28	-1.49	6.70	3.95	3.47
Value Added	-5.26	-2.46	0.64	1.33	-0.15	0.48	-0.33	0.60	N/A	N/A
<b>U.S. Treasuries Total (unlevered)</b>	13.31	-4.72	7.12	-0.04	-1.84	19.66	-12.10	N/A	N/A	N/A
<i>Blmbg. Barc. U.S. Treasury: Long</i>	14.83	-1.84	8.53	1.33	-1.21	25.07	-12.66	3.56	29.93	9.38
Value Added	-1.52	-2.88	-1.41	-1.37	-0.63	-5.41	0.56	N/A	N/A	N/A
<b>PSERS Funded U.S. Long Treasuries</b>	14.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blmbg. Barc. U.S. Treasury: Long</i>	14.83	-1.84	8.53	1.33	-1.21	25.07	-12.66	3.56	29.93	9.38
Value Added	-0.08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Credit-Related (hedged)</b>	9.55	5.38	10.49	11.05	0.70	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Credit-Related)</i>	13.79	-2.29	8.30	15.99	-6.30	N/A	N/A	N/A	N/A	N/A
Value Added	-4.24	7.67	2.19	-4.94	7.00	N/A	N/A	N/A	N/A	N/A
<b>Emerging Markets Fixed Income Composite</b>	11.54	-0.96	15.68	9.28	-6.91	-3.52	-4.08	16.81	0.82	N/A
<i>Blended Policy (EM FI)</i>	10.64	-4.77	14.94	6.85	-11.72	-3.14	-5.39	16.00	-1.49	15.68
Value Added	0.90	3.81	0.74	2.43	4.81	-0.38	1.31	0.81	2.31	N/A
<b>Franklin Templeton Emerging Fixed Income</b>	11.54	-0.96	15.68	9.04	-1.75	-1.66	0.87	18.99	1.96	14.19
<i>Blended Benchmark (Franklin)</i>	13.29	-4.80	14.94	6.85	-11.72	-3.14	-5.39	19.47	4.47	10.95
Value Added	-1.75	3.84	0.74	2.19	9.97	1.48	6.26	-0.48	-2.51	3.24
<b>Private Credit Composite (hedged)</b>	6.48	5.85	10.10	11.12	-0.56	8.54	10.17	17.31	1.64	15.95
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-7.42	7.93	2.60	-6.01	3.91	6.09	2.73	1.50	-3.34	0.83
<b>Insight Oxygen Currency Hedge - Private Credit (notional)</b>	4.84	7.96	-10.54	4.29	N/A	N/A	N/A	N/A	N/A	N/A

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## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Currency Hedge Benchmark - Private Credit	4.96	8.07	-10.43	4.41	N/A	N/A	N/A	N/A	N/A	N/A
Value Added	-0.12	-0.11	-0.11	-0.12	N/A	N/A	N/A	N/A	N/A	N/A
PSERS Private Credit Internal Co-Invest	9.92	4.93	-13.32	-32.79	-33.14	15.79	N/A	N/A	N/A	N/A
Blended Policy (Private Credit)	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-3.98	7.01	-20.82	-49.92	-28.67	13.34	N/A	N/A	N/A	N/A
Apollo European Principal Fund II	-7.01	-1.81	12.25	14.56	6.31	8.80	-0.83	N/A	N/A	N/A
Blended Policy (Private Credit)	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-20.91	0.27	4.75	-2.57	10.78	6.35	-8.27	N/A	N/A	N/A
Apollo European Principal Fund III	29.89	-22.85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blended Policy (Private Credit)	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	15.99	-20.77	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Avenue Energy Opportunities Fund	-5.39	0.51	4.50	41.63	N/A	N/A	N/A	N/A	N/A	N/A
Blended Policy (Private Credit)	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-19.29	2.59	-3.00	24.50	N/A	N/A	N/A	N/A	N/A	N/A
Avenue Energy Opportunities Fund II	8.04	-1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blended Policy (Private Credit)	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-5.86	1.08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Avenue Europe SS III	7.70	4.11	10.73	5.81	N/A	N/A	N/A	N/A	N/A	N/A
Blended Policy (Private Credit)	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-6.20	6.19	3.23	-11.32	N/A	N/A	N/A	N/A	N/A	N/A
Bain Capital Credit Managed Account (PSERS), L.P.	4.64	0.33	11.22	17.80	-5.03	4.28	7.66	10.67	2.10	14.16
Blended Policy (Private Credit)	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-9.26	2.41	3.72	0.67	-0.56	1.83	0.22	-5.14	-2.88	-0.96
Bain Capital Credit Opp. Fund IV	13.14	12.06	25.20	2.05	-7.15	1.69	9.20	6.47	0.81	13.76
Blended Policy (Private Credit)	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-0.76	14.14	17.70	-15.08	-2.68	-0.76	1.76	-9.34	-4.17	-1.36
Bain Capital Distressed and Special Situations 2013	-4.90	5.36	12.90	7.00	-3.02	10.46	10.06	N/A	N/A	N/A
Blended Policy (Private Credit)	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-18.80	7.44	5.40	-10.13	1.45	8.01	2.62	N/A	N/A	N/A
Bain Capital Distressed and Special Situations 2016 (A), L.P.	4.38	10.30	12.41	29.32	N/A	N/A	N/A	N/A	N/A	N/A
Blended Policy (Private Credit)	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-9.52	12.38	4.91	12.19	N/A	N/A	N/A	N/A	N/A	N/A
Bain Capital Distressed and Special Situations 2019 (A), L.P.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blended Policy (Private Credit)	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bain Capital Middle Market Credit 2010, L.P.	17.99	-4.09	7.34	-6.05	4.81	6.37	11.04	19.37	8.64	N/A
Blended Policy (Private Credit)	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	4.09	-2.01	-0.16	-23.18	9.28	3.92	3.60	3.56	3.66	N/A
Bain Capital Middle Market Credit 2014, L.P.	4.24	9.22	10.41	5.91	0.81	7.00	N/A	N/A	N/A	N/A



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## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-9.66	11.30	2.91	-11.22	5.28	4.55	N/A	N/A	N/A	N/A
Brigade Distressed Value	7.25	1.18	11.34	34.96	-17.17	3.66	11.12	10.71	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-6.65	3.26	3.84	17.83	-12.70	1.21	3.68	-5.10	N/A	N/A
Brigade Structured Credit Offshore Fund	11.89	1.14	8.52	26.20	-5.62	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-2.01	3.22	1.02	9.07	-1.15	N/A	N/A	N/A	N/A	N/A
Carlyle Energy Mezz. Opp. Fund	-44.42	-10.83	-11.38	-41.34	-9.01	19.08	20.66	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-58.32	-8.75	-18.88	-58.47	-4.54	16.63	13.22	N/A	N/A	N/A
Carlyle Energy Mezz. Opp. Fund II	-4.41	4.15	-1.36	-10.87	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-18.31	6.23	-8.86	-28.00	N/A	N/A	N/A	N/A	N/A	N/A
Cerberus Levered Loan Fund I	4.66	6.21	6.89	6.04	-1.29	3.38	9.09	12.20	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-9.24	8.29	-0.61	-11.09	3.18	0.93	1.65	-3.61	N/A	N/A
Cerberus Levered Loan Fund II	-2.56	3.29	1.52	3.25	8.03	13.92	12.21	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-16.46	5.37	-5.98	-13.88	12.50	11.47	4.77	N/A	N/A	N/A
Cerberus PSERS Levered Loan Opportunities Fund	11.97	11.52	18.25	36.14	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-1.93	13.60	10.75	19.01	N/A	N/A	N/A	N/A	N/A	N/A
Clearlake Opportunities Partners II, LP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Galton Onshore Mortgage Recovery Fund III, LP	2.36	7.56	15.62	1.83	-1.33	-4.44	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-11.54	9.64	8.12	-15.30	3.14	-6.89	N/A	N/A	N/A	N/A
Galton Onshore Mortgage Recovery Fund IV, L.P.	-2.10	-12.51	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-16.00	-10.43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hayfin SOF II USD LP	6.74	6.35	20.95	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-7.16	8.43	13.45	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hayfin SOF II USD Co-Invest	7.46	5.11	6.72	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-6.44	7.19	-0.78	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hayfin Special Opportunities Credit LP	-7.59	21.50	25.60	5.14	-2.76	-6.95	N/A	N/A	N/A	N/A

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## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-21.49	23.58	18.10	-11.99	1.71	-9.40	N/A	N/A	N/A	N/A
ICG Europe Fund V	16.77	14.74	27.83	6.38	-2.00	4.03	15.07	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	2.87	16.82	20.33	-10.75	2.47	1.58	7.63	N/A	N/A	N/A
ICG Europe Fund VI	7.18	4.03	63.62	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-6.72	6.11	56.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ICG Europe Fund VII	33.77	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	19.87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Latitude Management Real Estate Capital IV	6.74	6.22	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-7.16	8.30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LBC Credit Partners III	-3.60	0.60	2.33	13.28	14.46	11.66	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-17.50	2.68	-5.17	-3.85	18.93	9.21	N/A	N/A	N/A	N/A
LBC-P Credit Fund LP	5.12	9.89	25.65	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-8.78	11.97	18.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mariner/Galton RMBS	10.85	3.03	7.78	3.87	4.38	8.61	8.55	21.64	1.67	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-3.05	5.11	0.28	-13.26	8.85	6.16	1.11	5.83	-3.31	N/A
Newmarket International Infrastructure Finance Company Fund, L.P.	9.35	9.47	8.44	8.67	5.82	-5.53	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-4.55	11.55	0.94	-8.46	10.29	-7.98	N/A	N/A	N/A	N/A
Park Square Credit Opportunities	13.96	0.90	4.29	20.66	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	0.06	2.98	-3.21	3.53	N/A	N/A	N/A	N/A	N/A	N/A
PIMCO BRAVO Fund III Onshore Feeder, L.P.	10.52	10.96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-3.38	13.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PIMCO Commercial Real Estate Debt Fund, L.P.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sixth Street Fundamental Strategies Partners	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SSG Capital Partners V, LP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SSG Capital Partners V Sidecar, LP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Summit Partners Credit Fund II LP	6.39	6.93	12.18	13.37	-0.21	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-7.51	9.01	4.68	-3.76	4.26	N/A	N/A	N/A	N/A	N/A
TCI Real Estate Partners Fund III, L.P.	12.59	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-1.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
The Varde Scratch and Dent Fund, LP	7.18	5.60	8.25	6.67	7.48	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-6.72	7.68	0.75	-10.46	11.95	N/A	N/A	N/A	N/A	N/A
The Varde Scratch and Dent Fund Feed I-A	8.92	8.45	6.39	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-4.98	10.53	-1.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOP NPL (A)	-7.63	-1.84	2.02	-3.30	27.19	30.38	12.18	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-21.53	0.24	-5.48	-20.43	31.66	27.93	4.74	N/A	N/A	N/A
TPG Opportunities Partners II, LP	-2.11	20.72	4.07	6.52	21.82	25.75	13.76	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-16.01	22.80	-3.43	-10.61	26.29	23.30	6.32	N/A	N/A	N/A
TPG Opportunities Partners III, LP	11.80	9.58	13.79	17.10	3.39	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-2.10	11.66	6.29	-0.03	7.86	N/A	N/A	N/A	N/A	N/A
TPG TAO	11.50	11.01	6.56	10.10	10.13	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	-2.40	13.09	-0.94	-7.03	14.60	N/A	N/A	N/A	N/A	N/A
TSSP Opportunities Partners IV, LP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Whitehorse Liquidity Partners IV LP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	13.90	-2.08	7.50	17.13	-4.47	2.45	7.44	15.81	4.98	15.12
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Inflation Protected (unlevered)	6.32	0.50	2.11	9.25	2.47	12.49	-10.76	9.15	23.56	18.13
<i>Blended Policy (Inflation Protected)</i>	8.73	0.10	3.32	10.22	-1.76	3.64	-8.61	6.98	13.56	6.31
Value Added	-2.41	0.40	-1.21	-0.97	4.23	8.85	-2.15	2.17	10.00	11.82
U.S. Inflation Protected (unlevered)	7.48	-1.43	3.03	6.20	-1.46	5.03	-7.97	7.10	18.25	11.31

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## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
<i>Blended Policy (U.S. Inflation Protected)</i>	8.37	-1.26	3.01	4.68	-1.44	3.64	-8.61	6.98	13.56	6.31
Value Added	-0.89	-0.17	0.02	1.52	-0.02	1.39	0.64	0.12	4.69	5.00
PSERS Total TIPS (unlevered)	7.48	-1.43	3.03	6.20	-1.46	5.03	-7.97	7.03	13.96	7.12
<i>Blended Policy (U.S. Inflation Protected)</i>	8.37	-1.26	3.01	4.68	-1.44	3.64	-8.61	6.98	13.56	6.31
Value Added	-0.89	-0.17	0.02	1.52	-0.02	1.39	0.64	0.05	0.40	0.81
PSERS TIPS	8.05	-0.75	3.94	5.23	-1.46	5.03	-7.97	7.03	13.96	7.12
<i>Blended Policy (U.S. Inflation Protected)</i>	8.37	-1.26	3.01	4.68	-1.44	3.64	-8.61	6.98	13.56	6.31
Value Added	-0.32	0.51	0.93	0.55	-0.02	1.39	0.64	0.05	0.40	0.81
PSERS TIPS Swap (Long)	8.41	-1.26	3.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>TIPS Swap Custom Benchmark</i>	8.37	-1.26	3.01	4.68	-1.44	3.64	-8.61	6.98	13.56	6.31
Value Added	0.04	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-U.S. Inflation Protected (unlevered)	5.33	2.52	1.55	11.69	N/A	N/A	N/A	N/A	N/A	N/A
<i>Bloomberg Barclays World Govt ex U.S. ILB Index (H\$)</i>	7.98	1.29	3.29	14.53	-0.63	13.00	-1.99	4.35	9.22	4.85
Value Added	-2.65	1.23	-1.74	-2.84	N/A	N/A	N/A	N/A	N/A	N/A
Bridgewater TIPS (unlevered)	5.33	2.52	1.55	11.69	N/A	N/A	N/A	N/A	N/A	N/A
<i>BGI Custom IL Bond Index (unlevered)</i>	5.90	0.69	1.67	11.34	N/A	N/A	N/A	N/A	N/A	N/A
Value Added	-0.57	1.83	-0.12	0.35	N/A	N/A	N/A	N/A	N/A	N/A
PIMCO Multi-Sector Strategy	9.50	1.86	4.78	7.11	-3.32	5.22	-1.24	N/A	N/A	N/A
<i>Blended Policy (PIMCO Multi-Sector)</i>	10.51	2.07	3.95	6.36	-2.70	6.32	-0.73	7.46	7.84	6.54
Value Added	-1.01	-0.21	0.83	0.75	-0.62	-1.10	-0.51	N/A	N/A	N/A
Total Real Asset Exposure (unlevered/hedged)	12.57	-1.62	7.25	14.01	-8.04	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Real Assets) (Hedged)</i>	12.21	-0.67	7.07	11.38	-6.49	N/A	N/A	N/A	N/A	N/A
Value Added	0.36	-0.95	0.18	2.63	-1.55	N/A	N/A	N/A	N/A	N/A
Public Real Assets (unlevered/hedged)	15.18	-8.33	4.06	17.17	-29.41	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Real Assets x Private) (Hedged)</i>	15.64	-7.44	4.12	14.10	-24.87	-4.38	0.33	2.89	2.25	26.86
Value Added	-0.46	-0.89	-0.06	3.07	-4.54	N/A	N/A	N/A	N/A	N/A
Insight Nevada Currency Hedge - Infra (notional)	0.84	7.21	-7.14	1.84	N/A	N/A	N/A	N/A	N/A	N/A
<i>Currency Hedge Benchmark - Infra</i>	1.03	7.30	-7.04	1.99	N/A	N/A	N/A	N/A	N/A	N/A
Value Added	-0.19	-0.09	-0.10	-0.15	N/A	N/A	N/A	N/A	N/A	N/A
Publicly-Traded Infrastructure Composite (unlevered)	17.03	-4.63	18.18	10.63	N/A	N/A	N/A	N/A	N/A	N/A
<i>FTSE Developed Core Infracst 50/50 Index (Net)</i>	25.04	-4.63	18.18	10.63	-7.56	16.02	15.48	11.49	8.00	10.34
Value Added	-8.01	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
PSERS Infrastructure Index (Long)	25.04	-4.63	18.18	10.63	N/A	N/A	N/A	N/A	N/A	N/A
<i>FTSE Developed Core Infracst 50/50 Index (Net)</i>	25.04	-4.63	18.18	10.63	-7.56	16.02	15.48	11.49	8.00	10.34
Value Added	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
MLP Composite	13.38	-12.47	-5.68	24.62	-32.85	16.30	37.44	12.77	18.88	39.82
<i>Blended Policy (MLP)</i>	15.76	-11.67	-5.58	21.95	-35.07	7.66	29.75	4.95	14.47	35.17

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## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Value Added	-2.38	-0.80	-0.10	2.67	2.22	8.64	7.69	7.82	4.41	4.65
PSERS Midstream Energy Index	13.35	-12.73	-4.92	22.29	N/A	N/A	N/A	N/A	N/A	N/A
MLP Internal Blended Benchmark	13.39	-12.37	-5.32	21.95	-35.07	7.66	29.75	4.95	14.47	35.17
Value Added	-0.04	-0.36	0.40	0.34	N/A	N/A	N/A	N/A	N/A	N/A
External MLP Composite	13.39	-12.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blended Policy (MLP)	15.76	-11.67	-5.58	21.95	-35.07	7.66	29.75	4.95	14.47	35.17
Value Added	-2.37	-0.70	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Atlantic Trust	11.11	-9.96	-7.28	28.14	-33.34	15.38	38.77	N/A	N/A	N/A
Blended Policy (MLP)	15.76	-11.67	-5.58	21.95	-35.07	7.66	29.75	4.95	14.47	35.17
Value Added	-4.65	1.71	-1.70	6.19	1.73	7.72	9.02	N/A	N/A	N/A
Salient	15.94	-13.40	-5.19	29.46	-36.06	15.15	38.62	N/A	N/A	N/A
Blended Policy (MLP)	15.76	-11.67	-5.58	21.95	-35.07	7.66	29.75	4.95	14.47	35.17
Value Added	0.18	-1.73	0.39	7.51	-0.99	7.49	8.87	N/A	N/A	N/A
Public Commodities Composite (unlevered)	23.49	-7.43	7.48	14.75	-18.59	-10.18	-11.16	2.41	-10.00	18.13
Blended Policy (Commodities)	11.67	-7.97	5.83	10.81	-19.85	-12.05	-10.34	-1.05	-13.32	16.82
Value Added	11.82	0.54	1.65	3.94	1.26	1.87	-0.82	3.46	3.32	1.31
Public Commodities ex Gold (unlevered)	7.94	-10.74	5.35	18.03	-23.16	-15.07	N/A	N/A	N/A	N/A
Bloomberg Commodity Index Total Return	7.69	-11.25	1.70	11.77	-24.66	-17.01	-9.52	-1.06	-13.32	16.83
Value Added	0.25	0.51	3.65	6.26	1.50	1.94	N/A	N/A	N/A	N/A
PSERS Commodity Beta (Long)	7.69	-11.25	1.70	11.77	-24.66	N/A	N/A	N/A	N/A	N/A
Bloomberg Commodity Index Total Return	7.69	-11.25	1.70	11.77	-24.66	-17.01	-9.52	-1.06	-13.32	16.83
Value Added	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A
Gresham	10.05	-11.23	6.13	12.90	-24.91	-16.31	-7.06	0.66	-6.15	20.92
Bloomberg Commodity Index Total Return	7.69	-11.25	1.70	11.77	-24.66	-17.01	-9.52	-1.06	-13.32	16.83
Value Added	2.36	0.02	4.43	1.13	-0.25	0.70	2.46	1.72	7.17	4.09
Wellington Management Company	12.11	-13.10	6.28	25.32	-24.58	-15.09	-5.05	2.92	-11.05	19.62
Blended Benchmark (Wellington)	10.45	-11.28	8.43	23.33	-24.75	-14.23	-2.79	4.39	-7.71	19.25
Value Added	1.66	-1.82	-2.15	1.99	0.17	-0.86	-2.26	-1.47	-3.34	0.37
Gold Composite (unlevered)	16.89	-4.57	11.82	7.68	-10.16	0.39	-28.37	N/A	N/A	N/A
Bloomberg Gold Subindex Total Return	18.03	-2.81	12.79	7.73	-10.88	-1.75	-28.66	6.08	9.63	28.72
Value Added	-1.14	-1.76	-0.97	-0.05	0.72	2.14	0.29	N/A	N/A	N/A
PSERS Gold (Long)	18.03	-2.81	12.79	7.73	N/A	N/A	N/A	N/A	N/A	N/A
Bloomberg Gold Subindex Total Return	18.03	-2.81	12.79	7.73	-10.88	-1.75	-28.66	6.08	9.63	28.72
Value Added	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
Public Real Estate Composite (unlevered/hedged)	23.21	-3.00	6.31	7.91	-1.89	20.09	4.10	13.75	4.71	16.82
Blended Policy (PTRES) (Hedged)	22.75	-3.36	7.64	5.36	-0.32	14.73	2.24	29.85	-8.13	20.03
Value Added	0.46	0.36	-1.33	2.55	-1.57	5.36	1.86	-16.10	12.84	-3.21
Insight Sierra Currency Hedge - REIT (notional)	1.35	5.00	-5.51	2.31	N/A	N/A	N/A	N/A	N/A	N/A
Currency Hedge Benchmark - REIT	1.47	5.11	-5.40	2.45	N/A	N/A	N/A	N/A	N/A	N/A

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## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Value Added	-0.12	-0.11	-0.11	-0.14	N/A	N/A	N/A	N/A	N/A	N/A
PSERS REIT Index (Long)	21.91	-5.63	10.36	4.06	N/A	N/A	N/A	N/A	N/A	N/A
<i>FTSE EPRA/NAREIT Developed Index (Net)</i>	21.91	-5.63	10.36	4.06	-0.79	15.02	3.67	27.73	-6.46	19.63
Value Added	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
Security Capital Preferred Growth	21.16	-0.45	2.25	12.23	2.15	20.09	4.10	13.75	4.71	24.71
<i>Wilshire US Real Estate Securities Index</i>	25.79	-4.80	4.84	7.62	4.81	31.53	2.15	17.55	8.56	29.12
Value Added	-4.63	4.35	-2.59	4.61	-2.66	-11.44	1.95	-3.80	-3.85	-4.41
Private Real Assets	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Private Infrastructure Composite	15.59	15.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>FTSE Developed Core Infrastructure 50/50 Index (Net) 1Q Lag</i>	17.10	0.74	11.38	14.65	-3.62	15.62	15.39	18.40	2.93	N/A
Value Added	-1.51	14.32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Private Infrastructure ex Co-Invest	12.75	15.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PSERS Private Infrastructure Internal Co-Invest	28.90	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Private Commodities Composite	5.36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Private Commodities ex Co-Invest	5.30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PSERS Private Commodities Internal Co-Invest	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Private Real Estate Composite	9.76	9.98	12.53	10.10	9.54	17.15	11.92	9.79	13.48	1.04
<i>Blended Policy (Private Real Estate)</i>	6.32	10.42	11.87	8.06	11.37	15.00	10.53	9.04	15.58	5.60
Value Added	3.44	-0.44	0.66	2.04	-1.83	2.15	1.39	0.75	-2.10	-4.56
Private Real Estate ex Internal Co-Invest	9.64	9.79	12.51	9.97	9.46	17.07	11.85	9.79	13.48	1.04
PSERS Real Estate Internal Co-Invest	14.68	18.06	13.70	18.13	18.51	28.93	N/A	N/A	N/A	N/A
Risk Parity Composite (vol adjusted)	20.63	-6.80	12.94	11.14	-6.54	10.17	-4.74	N/A	N/A	N/A
<i>Blended Policy (Risk Parity)</i>	23.53	-7.79	14.91	12.20	-5.66	10.41	-5.28	14.00	16.70	20.34
Value Added	-2.90	0.99	-1.97	-1.06	-0.88	-0.24	0.54	N/A	N/A	N/A
BlackRock Market Advantage II (vol adjusted)	27.35	-5.42	16.06	11.69	N/A	N/A	N/A	N/A	N/A	N/A
Bridgewater All Weather @15% (vol adjusted)	19.61	-6.28	14.19	11.60	-8.35	9.49	-4.57	N/A	N/A	N/A
Bridgewater Optimal @ 12% (vol adjusted)	8.98	-5.48	3.00	7.72	N/A	N/A	N/A	N/A	N/A	N/A
DE Shaw Orienteer HV (vol adjusted)	35.54	-9.41	13.90	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PSERS Risk Parity Composite (vol adjusted to 12%)	19.06	-6.79	13.75	14.17	-6.14	10.21	N/A	N/A	N/A	N/A
Total Absolute Return Composite	4.02	3.81	4.14	3.98	-0.58	3.06	4.76	3.54	7.72	17.25
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	-2.46	-2.11	-0.68	-0.29	-4.41	-2.55	-2.74	-3.96	-0.03	9.25
Aeolus Property Catastrophe Keystone PF Fund, LP	5.80	-5.61	-17.60	10.24	14.72	19.41	22.65	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	-0.68	-11.53	-22.42	5.97	10.89	13.80	15.15	N/A	N/A	N/A
AKAZ Offshore Fund Ltd	-12.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	-18.66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bridgewater Pure Alpha Fund II, Ltd.	-0.25	17.42	1.78	2.94	7.58	5.93	6.99	1.56	32.86	56.55
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	-6.73	11.50	-3.04	-1.33	3.75	0.32	-0.51	-5.94	25.11	48.55
Brigade Leveraged Capital Structures Offshore Fund, Ltd.	8.05	1.54	7.10	22.88	-11.10	0.51	6.12	7.05	2.90	7.84
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	1.57	-4.38	2.28	18.61	-14.93	-5.10	-1.38	-0.45	-4.85	-0.16
Capula Global Relative Value Fund Limited	8.63	5.14	4.30	9.01	8.09	8.62	8.18	0.83	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	2.15	-0.78	-0.52	4.74	4.26	3.01	0.68	-6.67	N/A	N/A
Capula Tail Risk Fund Limited	-4.40	0.80	-7.90	-0.57	3.32	-1.04	-3.41	-14.28	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	-10.88	-5.12	-12.72	-4.84	-0.51	-6.65	-10.91	-21.78	N/A	N/A
Carlyle Aviation/SASOF III LP	39.25	31.66	10.10	15.42	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	32.77	25.74	5.28	11.15	N/A	N/A	N/A	N/A	N/A	N/A
Carlyle Aviation/SASOF IV LP	5.87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	-0.61	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carlyle Aviation/SASOF V LP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Caspian Keystone Focused Fund, LP	28.20	-0.66	9.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	21.72	-6.58	5.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Caspian Select Credit International, Ltd.	5.20	0.97	6.71	8.92	-10.40	3.11	9.82	11.83	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	-1.28	-4.95	1.89	4.65	-14.23	-2.50	2.32	4.33	N/A	N/A
Falko Regional Aircraft Opportunities Fund II	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Garda Fixed Income Relative Value Opportunity Fund Ltd.	10.08	1.48	7.09	6.83	2.18	6.39	5.06	6.70	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	3.60	-4.44	2.27	2.56	-1.65	0.78	-2.44	-0.80	N/A	N/A
HS Group Sponsor Fund II, Ltd.	6.53	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Independence Reinsurance Partners Composite	4.76	-0.36	-15.52	N/A	N/A	N/A	N/A	N/A	N/A	N/A



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## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	-1.72	-6.28	-20.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DaVinci Reinsurance Ltd.	11.70	1.97	-17.45	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RenaissanceRe Medici Fund Ltd.	5.00	4.06	1.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Upsilon Diversified Fund Ltd.	2.29	-5.34	-58.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nephila/Nimbus Weather Fund	-2.33	3.85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	-8.81	-2.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nephila/Palmetto Fund Ltd.	1.79	-4.70	-5.84	2.83	5.37	6.92	6.96	10.04	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	-4.69	-10.62	-10.66	-1.44	1.54	1.31	-0.54	2.54	N/A	N/A
Oceanwood Investments SPC Co-Invest	32.78	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	26.30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oceanwood Opportunities Fund	7.99	-2.51	17.40	-5.12	9.10	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	1.51	-8.43	12.58	-9.39	5.27	N/A	N/A	N/A	N/A	N/A
OWS Credit Opportunity Offshore Fund III, Ltd.	7.42	8.88	15.28	10.03	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	0.94	2.96	10.46	5.76	N/A	N/A	N/A	N/A	N/A	N/A
Perry Partners LP	18.34	-22.48	0.98	8.03	-13.32	-4.25	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	11.86	-28.40	-3.84	3.76	-17.15	-9.86	N/A	N/A	N/A	N/A
PIMCO PARS/GCOF/MAV/PCAF Composite	3.79	2.19	2.68	0.54	6.56	4.70	2.16	14.21	5.85	2.03
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	-2.69	-3.73	-2.14	-3.73	2.73	-0.91	-5.34	6.71	-1.90	-5.97
PIMCO Absolute Return Strategy V Offshore Fund, Ltd.	16.13	-3.04	5.77	-0.14	8.20	14.38	0.90	N/A	N/A	N/A
PIMCO Global Credit Opportunity Offshore Fund, Ltd.	-12.91	11.38	0.42	10.19	10.03	7.34	11.11	N/A	N/A	N/A
PIMCO Commodity Alpha Fund	10.10	6.34	12.44	20.81	N/A	N/A	N/A	N/A	N/A	N/A
Two Sigma Risk Premia Enhanced Fund, LP	-0.25	7.30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	-6.73	1.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Venor Capital Offshore, Ltd.	11.23	-1.19	3.60	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	6.48	5.92	4.82	4.27	3.83	5.61	7.50	7.50	7.75	8.00
Value Added	4.75	-7.11	-1.22	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cash & Cash Equivalents	2.28	1.81	1.03	0.40	-6.05	0.29	0.28	3.84	3.06	0.47



As of June 30, 2020

## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
<i>ICE BofAML US Treasury Bills 0-3M</i>	2.21	1.83	0.82	0.25	0.02	0.03	0.05	0.08	0.07	0.13
Value Added	0.07	-0.02	0.21	0.15	-6.07	0.26	0.23	3.76	2.99	0.34
PSERS Cash Management	2.35	2.06	0.93	0.40	-0.05	0.30	0.29	0.55	0.77	0.46
PSERS Derivatives Collateral	2.07	1.66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

As of June 30, 2020

## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
<b>Financing Composite</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>ICE BofAML USD 3-Mo Deposit Offered Rate Average Index</i>	2.49	2.22	1.22	0.70	0.29	N/A	N/A	N/A	N/A	N/A
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PSERS Commodity Beta (Short/Financing)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>FTSE 1 Month T-Bill</i>	2.20	1.82	0.80	0.21	0.02	0.02	0.01	0.04	0.04	0.10
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PSERS Gold (Short/Financing)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>FTSE 1 Month T-Bill</i>	2.20	1.82	0.80	0.21	0.02	0.02	0.01	0.04	0.04	0.10
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PSERS Infrastructure Index (Short/Financing)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>ICE BofAML USD 3-Mo Deposit Offered Rate Average Index</i>	2.49	2.22	1.22	0.70	0.29	N/A	N/A	N/A	N/A	N/A
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PSERS REIT Index (Short/Financing)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>ICE BofAML USD 3-Mo Deposit Offered Rate Average Index</i>	2.49	2.22	1.22	0.70	0.29	N/A	N/A	N/A	N/A	N/A
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PSERS TIPS Swap (Short/Financing)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>ICE BofAML USD 3-Mo Deposit Offered Rate Average Index</i>	2.49	2.22	1.22	0.70	0.29	N/A	N/A	N/A	N/A	N/A
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

The Short/Financing segments represent leverage, and therefore have negative asset balances. Due to the negative asset balance, a negative value-added relative to the benchmark represents outperformance, while a positive value added represents underperformance.

As of June 30, 2020

## Calendar Year Performance

	Performance (%)									
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
<b>PSERS Ultra Short Duration</b>	2.42	2.08	1.09	0.56	0.20	0.19	0.24	0.29	0.22	0.31
<i>ICE BofAML US Treasury Bills 0-3M</i>	2.21	1.83	0.82	0.25	0.02	0.03	0.05	0.08	0.07	0.13
Value Added	0.21	0.25	0.27	0.31	0.18	0.16	0.19	0.21	0.15	0.18
<b>LIBOR Composite</b>	3.40	2.16	1.48	1.90	0.76	0.76	1.39	1.35	0.62	0.97
<i>LIBOR Plus Hybrid</i>	2.49	2.25	1.18	0.71	0.28	0.24	0.28	0.46	0.32	0.34
Value Added	0.91	-0.09	0.30	1.19	0.48	0.52	1.11	0.89	0.30	0.63
<b>Penn Mutual Asset Management</b>	4.72	1.47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>LIBOR Plus Hybrid</i>	2.49	2.25	1.18	0.71	0.28	0.24	0.28	0.46	0.32	0.34
Value Added	2.23	-0.78	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PSERS LIBOR Plus</b>	3.16	2.17	1.58	1.43	0.46	0.59	0.86	0.76	0.63	1.04
<i>LIBOR Plus Hybrid</i>	2.49	2.25	1.18	0.71	0.28	0.24	0.28	0.46	0.32	0.34
Value Added	0.67	-0.08	0.40	0.72	0.18	0.35	0.58	0.30	0.31	0.70
<b>Radcliffe Ultra Short Duration</b>	4.69	2.61	2.66	4.26	2.19	1.38	3.25	N/A	N/A	N/A
<i>Blended Benchmark (Radcliffe Ultra Short)</i>	2.45	2.30	1.27	0.74	0.32	0.23	0.27	0.42	0.34	0.34
Value Added	2.24	0.31	1.39	3.52	1.87	1.15	2.98	N/A	N/A	N/A
<b>PSERS Healthcare &amp; HOP</b>										
<b>PSERS Healthcare - HOP</b>	2.42	2.13	1.08	0.53	0.24	0.20	0.24	0.29	0.24	0.47
<i>ICE BofAML 3 Month U.S. T-Bill</i>	2.28	1.87	0.86	0.33	0.05	0.04	0.07	0.11	0.10	0.13
Value Added	0.14	0.26	0.22	0.20	0.19	0.16	0.17	0.18	0.14	0.34
<b>PSERS Healthcare - Premium Assist</b>	2.61	2.21	1.12	0.97	0.31	0.19	0.50	0.79	0.83	1.28
<i>ICE BofAML 3 Month U.S. T-Bill</i>	2.28	1.87	0.86	0.33	0.05	0.04	0.07	0.11	0.10	0.13
Value Added	0.33	0.34	0.26	0.64	0.26	0.15	0.43	0.68	0.73	1.15
<b>E/M Total Program Composite</b>	8.15	1.81	4.20	4.09	2.07	-0.74	19.28	8.37	-5.72	16.52
<b>E/M Short Duration Cash</b>	7.80	2.17	4.22	5.20	2.74	N/A	N/A	N/A	N/A	N/A
<b>Radcliffe Ultra Short Duration</b>	4.69	2.61	2.66	4.26	2.19	1.38	3.25	N/A	N/A	N/A
<i>Blended Benchmark (Radcliffe Ultra Short)</i>	2.45	2.30	1.27	0.74	0.32	0.23	0.27	0.42	0.34	0.34
Value Added	2.24	0.31	1.39	3.52	1.87	1.15	2.98	N/A	N/A	N/A
<b>Radcliffe Specialty Finance Debt</b>	10.26	1.83	5.47	5.97	3.22	N/A	N/A	N/A	N/A	N/A
<i>3-Month Libor + 0.60%</i>	3.00	2.95	1.88	1.35	0.92	0.84	0.87	1.03	0.94	0.95
Value Added	7.26	-1.12	3.59	4.62	2.30	N/A	N/A	N/A	N/A	N/A

As of June 30, 2020

## Fiscal Year Performance

	Performance (%)									
	FY20	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11
<b>PSERS Total Fund</b>	1.11	6.66	9.26	10.20	1.33	3.41	14.82	7.95	3.44	20.36
<i>Blended Policy (Total Plan)</i>	2.74	7.91	8.21	8.46	3.24	3.03	14.32	6.68	2.35	19.34
Value Added	-1.63	-1.25	1.05	1.74	-1.91	0.38	0.50	1.27	1.09	1.02
<b>Total Public Global and Private Equity Exposure (hedged)</b>	0.27	7.59	13.13	18.16	-0.80	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Total Equity Exposure)</i>	1.13	7.77	13.64	18.00	-0.29	N/A	N/A	N/A	N/A	N/A
Value Added	-0.86	-0.18	-0.51	0.16	-0.51	N/A	N/A	N/A	N/A	N/A
<b>Total Public Global Equity Composite (hedged)</b>	3.34	4.99	11.27	21.31	-3.85	12.11	21.51	18.57	-5.93	31.46
<i>Blended Policy (Public Equity) (Hedged)</i>	-0.69	4.76	11.00	20.85	-4.97	6.59	23.10	17.43	-6.73	31.01
Value Added	4.03	0.23	0.27	0.46	1.12	5.52	-1.59	1.14	0.80	0.45
<b>Total US Equity Composite</b>	3.23	7.84	14.02	19.32	3.79	6.26	25.27	21.89	3.62	32.69
<i>Blended Policy (Tot US Eq)</i>	3.25	8.96	14.93	18.43	2.25	7.36	25.20	21.38	3.83	31.98
Value Added	-0.02	-1.12	-0.91	0.89	1.54	-1.10	0.07	0.51	-0.21	0.71
<b>PSERS-S&amp;P 500 Index Composite</b>	7.28	11.07	12.88	18.86	4.58	7.54	24.77	21.30	5.38	30.90
<i>S&amp;P 500 Index</i>	7.51	10.42	14.37	17.90	3.99	7.42	24.61	20.60	5.45	30.69
Value Added	-0.23	0.65	-1.49	0.96	0.59	0.12	0.16	0.70	-0.07	0.21
<b>Radcliffe Specialty Finance Debt</b>	1.41	6.98	2.50	5.73	3.96	N/A	N/A	N/A	N/A	N/A
<i>3-Month Libor + 0.60%</i>	2.43	3.18	2.38	1.60	1.10	0.85	0.84	0.93	1.04	0.91
Value Added	-1.02	3.80	0.12	4.13	2.86	N/A	N/A	N/A	N/A	N/A
<b>PSERS-S&amp;P 400 Index Composite</b>	-6.61	1.48	13.64	19.03	1.53	6.48	25.07	25.63	-1.74	39.65
<i>S&amp;P MidCap 400</i>	-6.70	1.36	13.50	18.57	1.33	6.40	25.24	25.18	-2.33	39.38
Value Added	0.09	0.12	0.14	0.46	0.20	0.08	-0.17	0.45	0.59	0.27
<b>PSERS-S&amp;P 600 Index Composite</b>	-11.21	-4.69	21.16	22.83	0.67	7.22	26.98	26.74	2.23	38.21
<i>S&amp;P SmallCap 600</i>	-11.29	-4.88	20.50	22.47	-0.03	6.72	25.54	25.18	1.43	37.03
Value Added	0.08	0.19	0.66	0.36	0.70	0.50	1.44	1.56	0.80	1.18
<b>Total Non-U.S. Equity Composite (hedged)</b>	1.77	2.84	10.43	22.77	-8.11	16.50	17.62	16.08	-13.14	30.44
<i>Blended Policy (Total Non-US Eq) (Hedged)</i>	-2.53	2.15	8.48	22.32	-9.38	6.23	21.10	13.91	-14.78	30.25
Value Added	4.30	0.69	1.95	0.45	1.27	10.27	-3.48	2.17	1.64	0.19
<b>Total Non-U.S. Equity x Emerging Markets Composite (hedged)</b>	0.91	3.09	10.58	23.22	-8.07	20.07	N/A	N/A	N/A	N/A
<i>Blended Policy (Non-US Equity x EM) (Hedged)</i>	-2.86	2.22	8.47	22.26	-9.32	7.79	21.10	13.91	-14.78	30.25
Value Added	3.77	0.87	2.11	0.96	1.25	12.28	N/A	N/A	N/A	N/A
<b>Insight Everest Currency Hedge - Int'l Eq (notional)</b>	3.00	3.18	1.25	2.42	0.17	16.92	-3.68	1.05	-0.74	-1.68
<i>Currency Hedge Benchmark - Int'l Eq</i>	3.02	3.31	1.24	2.59	0.30	16.85	-3.06	0.00	0.00	0.00
Value Added	-0.02	-0.13	0.01	-0.17	-0.13	0.07	-0.62	1.05	-0.74	-1.68
<b>Non-US Large/Mid Cap Equity Composite</b>	-1.59	2.46	9.08	21.86	-9.21	6.70	21.42	14.73	-12.91	31.93
<i>Blended Policy (MSCI World AC World ex USA net)</i>	-4.80	1.29	7.28	20.45	-10.24	-5.26	21.75	13.63	-14.56	29.73
Value Added	3.21	1.17	1.80	1.41	1.03	11.96	-0.33	1.10	1.65	2.20
<b>PSERS ACWI x US Fund</b>	-3.01	1.56	8.48	21.13	-9.72	-4.44	21.74	14.66	-13.93	30.50
<i>MSCI ACWI/EAFE Index Blend</i>	-4.80	1.29	7.28	20.45	-10.24	-5.26	21.75	13.63	-14.56	29.73

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## Fiscal Year Performance

	Performance (%)									
	FY20	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11
Value Added	1.79	0.27	1.20	0.68	0.52	0.82	-0.01	1.03	0.63	0.77
BlackRock EMAA	-3.53	-1.56	12.54	26.14	-10.82	N/A	N/A	N/A	N/A	N/A
<i>MSCI Emerging Markets Index (Net)</i>	-3.39	1.21	8.20	23.75	-12.05	-5.12	14.31	2.87	-15.94	27.80
Value Added	-0.14	-2.77	4.34	2.39	1.23	N/A	N/A	N/A	N/A	N/A
Active Non-US Large/Mid Cap Composite	-0.07	3.37	9.82	22.82	-8.25	-0.62	20.72	14.47	-9.64	36.61
<i>MSCI AC World ex USA Index (Net)</i>	-4.80	1.29	7.28	20.45	-10.24	-5.26	21.75	13.63	-14.56	29.73
Value Added	4.73	2.08	2.54	2.37	1.99	4.64	-1.03	0.84	4.92	6.88
Baillie Gifford	8.80	3.55	9.84	26.71	-7.56	-0.19	21.03	14.86	-9.48	32.66
<i>MSCI AC World ex USA Index (Net)</i>	-4.80	1.29	7.28	20.45	-10.24	-5.26	21.75	13.63	-14.56	29.73
Value Added	13.60	2.26	2.56	6.26	2.68	5.07	-0.72	1.23	5.08	2.93
BlackRock Emerging Markets Alpha Advantage Fund Ltd	-3.88	-1.53	14.00	26.85	0.09	-1.93	12.01	10.52	-7.90	48.97
<i>MSCI Emerging Markets Index (Net)</i>	-3.39	1.21	8.20	23.75	-12.05	-5.12	14.31	2.87	-15.94	27.80
Value Added	-0.49	-2.74	5.80	3.10	12.14	3.19	-2.30	7.65	8.04	21.17
Effissimo Capital Partners Feeder Fund 2 LP	-16.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>MSCI Japan in LC (Net)</i>	3.24	-6.80	8.94	30.53	-23.66	30.83	12.03	52.19	-8.34	3.14
Value Added	-19.36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Marathon Asset Mgmt	-8.11	1.93	7.29	20.66	-7.75	-2.58	22.73	20.83	-9.22	30.67
<i>Blended Benchmark (MSCI ACWI ex USA net)</i>	-4.80	1.29	7.28	20.45	-10.24	-5.26	21.75	13.63	-14.56	29.73
Value Added	-3.31	0.64	0.01	0.21	2.49	2.68	0.98	7.20	5.34	0.94
The Children's Investment Fund, LP	5.31	17.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>MSCI World Index (Net)</i>	2.84	6.33	11.09	18.20	-2.78	1.43	24.05	18.58	-4.98	30.51
Value Added	2.47	10.69	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-US Small Cap Equity Composite	5.05	-6.53	15.81	18.41	-1.64	0.57	26.17	28.16	-13.11	37.28
<i>MSCI AC World ex USA Small Cap (Net)</i>	-4.34	-5.94	10.57	20.32	-5.46	-3.07	26.09	15.94	-16.43	34.24
Value Added	9.39	-0.59	5.24	-1.91	3.82	3.64	0.08	12.22	3.32	3.04
Acadian Asset Mgmt	-2.03	-7.07	13.14	29.10	-2.57	-4.93	31.72	24.81	-13.84	33.88
<i>Blended Benchmark (MSCI AC World ex USA Small Cap net)</i>	-4.34	-5.94	10.57	20.32	-5.46	-3.07	26.09	15.94	-16.43	34.24
Value Added	2.31	-1.13	2.57	8.78	2.89	-1.86	5.63	8.87	2.59	-0.36
Oberweis Asset Mgmt	15.64	-8.91	18.50	15.94	1.85	3.24	37.58	51.23	-14.30	48.16
<i>MSCI AC World ex USA Small Cap (Net)</i>	-4.34	-5.94	10.57	20.32	-5.46	-3.07	26.09	15.94	-16.43	34.24
Value Added	19.98	-2.97	7.93	-4.38	7.31	6.31	11.49	35.29	2.13	13.92
QS Investors	-5.45	-7.60	9.53	22.29	-7.42	2.82	26.68	22.72	-11.81	39.46
<i>MSCI AC World ex USA Small Cap (Net)</i>	-4.34	-5.94	10.57	20.32	-5.46	-3.07	26.09	15.94	-16.43	34.24
Value Added	-1.11	-1.66	-1.04	1.97	-1.96	5.89	0.59	6.78	4.62	5.22
Wasatch Int'l Small Cap	7.12	-3.33	19.25	11.10	0.59	4.10	17.17	29.93	-7.19	38.95
<i>Blended Benchmark (MSCI AC World ex USA Small Cap net)</i>	-4.34	-5.94	10.57	20.32	-5.46	-3.07	26.09	15.94	-16.43	34.24
Value Added	11.46	2.61	8.68	-9.22	6.05	7.17	-8.92	13.99	9.24	4.71
Emerging Markets Equity Composite	8.84	-2.31	7.32	13.21	-9.57	-26.42	10.02	8.26	-12.32	25.38
<i>Blended Policy (EM)</i>	-3.97	0.47	8.20	23.75	-12.05	-5.12	14.31	2.86	-15.95	27.79

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## Fiscal Year Performance

	Performance (%)									
	FY20	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11
Value Added	12.81	-2.78	-0.88	-10.54	2.48	-21.30	-4.29	5.40	3.63	-2.41
<i>MSCI Emerging Markets IMI (Net)</i>	-3.97	0.47	7.90	22.82	-12.16	-4.41	14.31	3.66	-16.28	27.53
Value Added	12.81	-2.78	-0.58	-9.61	2.59	-22.01	-4.29	4.60	3.96	-2.15
Cederberg China Equity Fund	25.63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>MSCI Golden Dragon Index (Net)</i>	9.89	-1.96	14.49	30.56	-17.13	15.19	17.40	10.54	-14.22	21.76
Value Added	15.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Steadview Capital Partners LP	-10.63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Nifty 50 Index</i>	-12.61	10.88	14.09	16.28	0.56	11.55	32.35	12.38	-5.01	7.76
Value Added	1.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wasatch EM Small Cap	9.33	2.85	7.32	13.21	-9.57	-0.22	5.09	14.95	-3.33	32.42
<i>Blended Policy (Wasatch EM)</i>	-9.85	-2.19	5.34	16.91	-11.86	-2.49	15.94	9.37	-18.64	25.53
Value Added	19.18	5.04	1.98	-3.70	2.29	2.27	-10.85	5.58	15.31	6.89
Total Private Equity (hedged)	-4.18	11.21	16.27	14.32	3.61	2.63	14.27	10.34	9.43	18.60
<i>Burgiss Private Equity (1Q Lag)</i>	1.79	10.86	17.27	13.06	6.47	8.51	19.00	10.16	8.07	20.83
Value Added	-5.97	0.35	-1.00	1.26	-2.86	-5.88	-4.73	0.18	1.36	-2.23
Private Equity Composite (Buyout/Venture/Special Situations/Co-Invest)	-4.50	11.12	16.35	14.27	3.44	2.63	14.25	10.34	N/A	N/A
Insight Wilson Currency Hedge - PE Internal Co-Invest (1Q Lag)(Notional)	5.87	11.93	-10.77	9.77	N/A	N/A	N/A	N/A	N/A	N/A
<i>Currency Hedge Benchmark - PE (1Q Lag)</i>	5.85	11.89	-10.67	9.84	N/A	N/A	N/A	N/A	N/A	N/A
Value Added	0.02	0.04	-0.10	-0.07	N/A	N/A	N/A	N/A	N/A	N/A
PSERS Private Equity Internal Co-Invest Composite	-10.56	13.32	15.72	23.97	27.62	27.43	48.77	47.86	N/A	N/A
PSERS Private Equity Internal Co-Invest ex PA	-10.30	14.09	13.36	23.93	28.17	27.43	48.77	47.86	N/A	N/A
PSERS Private Equity Internal Pennsylvania Co-Invest Composite	-14.07	7.19	37.67	23.23	N/A	N/A	N/A	N/A	N/A	N/A
Special Situations Composite	-8.76	5.72	12.28	6.34	-2.75	4.15	13.54	12.43	3.52	14.86
Buyout/Venture Capital-Growth Equity Composite	-2.91	11.89	17.09	15.08	3.59	1.97	14.03	9.81	10.71	19.73
Buyout	-4.97	10.81	16.69	15.86	4.60	0.62	13.53	10.28	11.27	20.46
Buyout x Tobacco Composite	-4.97	10.81	16.69	15.86	5.15	0.55	13.53	10.28	11.27	20.46
Venture Capital - Growth Equity	7.62	17.36	19.24	11.10	-2.23	11.74	18.72	5.27	5.72	13.38
Total Fixed Income Exposure	7.10	7.94	6.43	5.39	6.40	2.67	9.86	2.62	9.31	11.90
<i>Blended Policy (Total FI)</i>	8.70	8.38	2.18	3.09	6.32	-1.19	6.52	-0.33	6.98	11.62
Value Added	-1.60	-0.44	4.25	2.30	0.08	3.86	3.34	2.95	2.33	0.28
Global Fixed Income Composite	6.73	7.87	1.32	4.34	4.51	-2.58	6.27	2.20	N/A	N/A
<i>Blended Policy (Global FI)</i>	7.12	8.13	-0.01	0.65	5.60	-3.95	5.83	0.21	4.33	9.05
Value Added	-0.39	-0.26	1.33	3.69	-1.09	1.37	0.44	1.99	N/A	N/A
Total US Fixed Income Composite	6.46	8.00	6.77	5.41	6.96	5.08	10.50	2.56	10.64	11.55
<i>Blended Policy (Total US FI)</i>	10.03	8.37	2.25	3.18	5.87	1.51	7.06	-0.50	8.52	10.38
Value Added	-3.57	-0.37	4.52	2.23	1.09	3.57	3.44	3.06	2.12	1.17
Total US Fixed Income ex TIPS Composite	19.20	8.09	6.45	6.78	6.60	6.16	10.43	8.10	7.83	9.29
Investment Grade Composite	19.38	8.44	0.04	-1.84	15.02	N/A	N/A	N/A	N/A	N/A

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## Fiscal Year Performance

	Performance (%)									
	FY20	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11
<i>Blended Policy (Investment Grade)</i>	18.68	11.44	0.11	-2.57	10.21	1.54	5.63	-3.23	14.55	3.54
Value Added	0.70	-3.00	-0.07	0.73	4.81	N/A	N/A	N/A	N/A	N/A
<b>US Core Plus Fixed Income Composite</b>	8.34	7.56	0.93	3.39	6.27	1.88	5.33	1.97	9.97	6.34
<i>Blended Policy (Barclays Aggregate Index)</i>	8.74	7.87	-0.40	-0.31	6.00	1.86	4.37	-0.69	6.50	4.78
Value Added	-0.40	-0.31	1.33	3.70	0.27	0.02	0.96	2.66	3.47	1.56
<b>BlackRock Global Alpha</b>	11.26	7.36	0.93	6.09	6.82	1.00	6.23	6.44	13.51	8.26
<i>Blended Policy (Barclays Aggregate Index)</i>	8.74	7.87	-0.40	-0.31	6.00	1.86	4.37	-0.69	6.50	4.78
Value Added	2.52	-0.51	1.33	6.40	0.82	-0.86	1.86	7.13	7.01	3.48
<b>PSERS Active Core Plus Fixed Income</b>	7.72	8.10	0.66	0.90	6.94	2.65	4.91	0.14	9.08	4.74
<i>Blmbg. Barc. U.S. Aggregate</i>	8.74	7.87	-0.40	-0.31	6.00	1.86	4.37	-0.69	7.47	3.90
Value Added	-1.02	0.23	1.06	1.21	0.94	0.79	0.54	0.83	1.61	0.84
<b>SEI Investment Management</b>	-5.50	3.27	5.03	14.10	-4.32	4.17	N/A	N/A	N/A	N/A
<i>ICE BofAML 1-3 Year U.S. Corporate</i>	4.58	5.06	0.68	1.43	2.32	0.95	2.66	2.55	2.24	4.10
Value Added	-10.08	-1.79	4.35	12.67	-6.64	3.22	N/A	N/A	N/A	N/A
<b>Non-U.S. Developed Markets Fixed Income Composite</b>	1.94	1.42	2.37	1.49	8.62	-13.83	9.33	-0.61	0.92	11.47
<i>Blended Policy (Barclays GlobalAgg GDP Weighted Dev xUS hedged)</i>	4.71	7.99	3.11	-0.21	8.02	-14.08	9.76	-0.53	1.55	10.77
Value Added	-2.77	-6.57	-0.74	1.70	0.60	0.25	-0.43	-0.08	-0.63	0.70
<b>Alliance Bernstein Global Fixed</b>	1.94	1.42	2.37	1.49	8.62	-14.28	10.00	0.00	N/A	N/A
<i>Spliced Barclays GlobalAgg GDPWeighted Dev xUS</i>	4.71	7.99	3.11	-0.21	8.02	-14.08	9.76	-0.53	-0.51	15.50
Value Added	-2.77	-6.57	-0.74	1.70	0.60	-0.20	0.24	0.53	N/A	N/A
<b>U.S. Treasuries Total (unlevered)</b>	25.06	8.86	-2.11	-9.17	20.03	3.65	3.92	-7.36	N/A	N/A
<i>Blmbg. Barc. U.S. Treasury: Long</i>	25.40	12.30	-0.13	-7.22	19.30	6.33	6.26	-8.36	32.26	-1.14
Value Added	-0.34	-3.44	-1.98	-1.95	0.73	-2.68	-2.34	1.00	N/A	N/A
<b>PSERS Funded U.S. Long Treasuries</b>	25.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blmbg. Barc. U.S. Treasury: Long</i>	25.40	12.30	-0.13	-7.22	19.30	6.33	6.26	-8.36	32.26	-1.14
Value Added	-0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Credit-Related (hedged)</b>	-3.11	7.92	9.69	12.52	-0.41	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Credit-Related)</i>	0.99	7.62	2.29	11.37	2.00	N/A	N/A	N/A	N/A	N/A
Value Added	-4.10	0.30	7.40	1.15	-2.41	N/A	N/A	N/A	N/A	N/A
<b>Emerging Markets Fixed Income Composite</b>	-3.11	10.00	3.54	13.54	-2.12	-9.19	7.20	4.24	0.69	16.60
<i>Blended Policy (EM FI)</i>	0.17	8.71	-1.43	4.85	2.85	-12.57	7.31	2.69	-2.29	19.67
Value Added	-3.28	1.29	4.97	8.69	-4.97	3.38	-0.11	1.55	2.98	-3.07
<b>Franklin Templeton Emerging Fixed Income</b>	-3.11	10.00	3.54	13.54	-0.35	-3.98	9.17	8.74	2.55	14.85
<i>Blended Benchmark (Franklin)</i>	1.02	10.37	-1.43	4.85	2.85	-12.57	7.31	4.35	8.06	10.96
Value Added	-4.13	-0.37	4.97	8.69	-3.20	8.59	1.86	4.39	-5.51	3.89
<b>Private Credit Composite (hedged)</b>	-4.27	5.11	10.14	12.45	0.12	4.45	12.29	14.03	6.21	11.85
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-4.08	-2.37	7.52	-0.25	-1.50	4.85	0.56	4.54	-1.06	-3.78
<b>Insight Oxygen Currency Hedge - Private Credit (notional)</b>	3.80	5.64	-0.07	-1.06	1.15	N/A	N/A	N/A	N/A	N/A

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## Fiscal Year Performance

	Performance (%)									
	FY20	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11
Currency Hedge Benchmark - Private Credit	3.75	5.71	0.04	-0.90	2.12	N/A	N/A	N/A	N/A	N/A
Value Added	0.05	-0.07	-0.11	-0.16	-0.97	N/A	N/A	N/A	N/A	N/A
PSERS Private Credit Internal Co-Invest	6.99	5.48	-0.20	-11.18	-53.48	8.13	N/A	N/A	N/A	N/A
Blended Policy (Private Credit)	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	7.18	-2.00	-2.82	-23.88	-55.10	8.53	N/A	N/A	N/A	N/A
Apollo European Principal Fund II	-12.29	-8.78	8.25	12.66	13.91	6.43	11.84	N/A	N/A	N/A
Blended Policy (Private Credit)	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-12.10	-16.26	5.63	-0.04	12.29	6.83	0.11	N/A	N/A	N/A
Apollo European Principal Fund III	13.09	12.94	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blended Policy (Private Credit)	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	13.28	5.46	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Avenue Energy Opportunities Fund	-14.15	-5.43	10.88	20.70	-14.28	N/A	N/A	N/A	N/A	N/A
Blended Policy (Private Credit)	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-13.96	-12.91	8.26	8.00	-15.90	N/A	N/A	N/A	N/A	N/A
Avenue Energy Opportunities Fund II	5.49	-5.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blended Policy (Private Credit)	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	5.68	-13.36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Avenue Europe SS III	-3.65	5.10	9.10	17.43	N/A	N/A	N/A	N/A	N/A	N/A
Blended Policy (Private Credit)	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-3.46	-2.38	6.48	4.73	N/A	N/A	N/A	N/A	N/A	N/A
Bain Capital Credit Managed Account (PSERS), L.P.	-7.29	2.08	8.26	16.85	-0.75	1.05	9.21	9.28	3.48	14.37
Blended Policy (Private Credit)	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-7.10	-5.40	5.64	4.15	-2.37	1.45	-2.52	-0.21	-3.79	-1.26
Bain Capital Credit Opp. Fund IV	-6.74	-17.48	74.59	8.74	-4.05	-1.73	5.63	8.55	-0.48	12.99
Blended Policy (Private Credit)	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-6.55	-24.96	71.97	-3.96	-5.67	-1.33	-6.10	-0.94	-7.75	-2.64
Bain Capital Distressed and Special Situations 2013	-23.08	-0.82	17.51	14.21	-10.89	9.04	11.17	N/A	N/A	N/A
Blended Policy (Private Credit)	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-22.89	-8.30	14.89	1.51	-12.51	9.44	-0.56	N/A	N/A	N/A
Bain Capital Distressed and Special Situations 2016 (A), L.P.	0.39	5.79	14.84	22.38	N/A	N/A	N/A	N/A	N/A	N/A
Blended Policy (Private Credit)	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	0.58	-1.69	12.22	9.68	N/A	N/A	N/A	N/A	N/A	N/A
Bain Capital Distressed and Special Situations 2019 (A), L.P.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blended Policy (Private Credit)	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bain Capital Middle Market Credit 2010, L.P.	-9.60	13.19	1.00	0.80	-6.21	7.90	9.09	18.35	11.81	6.52
Blended Policy (Private Credit)	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-9.41	5.71	-1.62	-11.90	-7.83	8.30	-2.64	8.86	4.54	-9.11
Bain Capital Middle Market Credit 2014, L.P.	1.20	5.89	11.69	8.40	-3.13	8.55	N/A	N/A	N/A	N/A



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## Fiscal Year Performance

	Performance (%)									
	FY20	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	1.39	-1.59	9.07	-4.30	-4.75	8.95	N/A	N/A	N/A	N/A
Brigade Distressed Value	-8.22	1.44	12.55	17.50	-4.43	1.41	16.08	10.29	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-8.03	-6.04	9.93	4.80	-6.05	1.81	4.35	0.80	N/A	N/A
Brigade Structured Credit Offshore Fund	-9.72	7.82	6.80	19.43	2.07	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-9.53	0.34	4.18	6.73	0.45	N/A	N/A	N/A	N/A	N/A
Carlyle Energy Mezz. Opp. Fund	-70.88	-15.51	-2.50	-18.66	-42.81	9.64	19.47	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-70.69	-22.99	-5.12	-31.36	-44.43	10.04	7.74	N/A	N/A	N/A
Carlyle Energy Mezz. Opp. Fund II	-22.68	-0.15	7.43	-25.54	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-22.49	-7.63	4.81	-38.24	N/A	N/A	N/A	N/A	N/A	N/A
Cerberus Levered Loan Fund I	-15.74	6.91	6.02	7.23	0.59	2.98	4.48	11.28	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-15.55	-0.57	3.40	-5.47	-1.03	3.38	-7.25	1.79	N/A	N/A
Cerberus Levered Loan Fund II	-20.06	3.16	1.79	4.27	2.67	12.80	14.08	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-19.87	-4.32	-0.83	-8.43	1.05	13.20	2.35	N/A	N/A	N/A
Cerberus PSERS Levered Loan Opportunities Fund	9.33	10.23	13.34	27.07	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	9.52	2.75	10.72	14.37	N/A	N/A	N/A	N/A	N/A	N/A
Clearlake Opportunities Partners II, LP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Galton Onshore Mortgage Recovery Fund III, LP	-11.13	10.35	7.34	12.49	0.66	-5.01	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-10.94	2.87	4.72	-0.21	-0.96	-4.61	N/A	N/A	N/A	N/A
Galton Onshore Mortgage Recovery Fund IV, L.P.	-61.24	-8.83	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-61.05	-16.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hayfin SOF II USD LP	-5.41	7.33	6.62	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-5.22	-0.15	4.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hayfin SOF II USD Co-Invest	-6.41	5.46	5.82	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-6.22	-2.02	3.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hayfin Special Opportunities Credit LP	-20.87	17.62	12.00	11.38	7.32	-12.42	12.68	N/A	N/A	N/A

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## Fiscal Year Performance

	Performance (%)									
	FY20	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-20.68	10.14	9.38	-1.32	5.70	-12.02	0.95	N/A	N/A	N/A
ICG Europe Fund V	7.94	17.80	15.92	13.97	6.73	-8.96	31.02	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	8.13	10.32	13.30	1.27	5.11	-8.56	19.29	N/A	N/A	N/A
ICG Europe Fund VI	4.70	8.34	26.99	47.09	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	4.89	0.86	24.37	34.39	N/A	N/A	N/A	N/A	N/A	N/A
ICG Europe Fund VII	20.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	20.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Latitude Management Real Estate Capital IV	7.95	6.92	2.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	8.14	-0.56	-0.43	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LBC Credit Partners III	-12.04	-3.51	3.93	4.05	14.72	15.81	9.47	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-11.85	-10.99	1.31	-8.65	13.10	16.21	-2.26	N/A	N/A	N/A
LBC-P Credit Fund LP	3.51	7.91	13.84	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	3.70	0.43	11.22	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mariner/Galton RMBS	6.69	10.52	3.17	7.30	0.81	10.27	6.20	18.40	8.12	8.08
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	6.88	3.04	0.55	-5.40	-0.81	10.67	-5.53	8.91	0.85	-7.55
Newmarket International Infrastructure Finance Company Fund, L.P.	10.90	11.07	5.46	8.53	10.09	-2.89	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	11.09	3.59	2.84	-4.17	8.47	-2.49	N/A	N/A	N/A	N/A
Park Square Credit Opportunities	-10.55	8.50	1.53	9.88	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-10.36	1.02	-1.09	-2.82	N/A	N/A	N/A	N/A	N/A	N/A
PIMCO BRAVO Fund III Onshore Feeder, L.P.	-5.69	8.24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-5.50	0.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PIMCO Commercial Real Estate Debt Fund, L.P.	9.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	9.29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sixth Street Fundamental Strategies Partners	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SSG Capital Partners V, LP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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## Fiscal Year Performance

	Performance (%)									
	FY20	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SSG Capital Partners V Sidecar, LP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Summit Partners Credit Fund II LP	-2.73	6.53	8.55	14.17	2.50	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-2.54	-0.95	5.93	1.47	0.88	N/A	N/A	N/A	N/A	N/A
TCI Real Estate Partners Fund III, L.P.	11.41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	11.60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
The Varde Scratch and Dent Fund, LP	0.45	7.53	6.56	7.29	7.65	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	0.64	0.05	3.94	-5.41	6.03	N/A	N/A	N/A	N/A	N/A
The Varde Scratch and Dent Fund Feed I-A	2.02	8.91	7.85	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	2.21	1.43	5.23	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOP NPL (A)	-28.88	-4.43	3.04	-7.61	19.20	28.56	23.03	10.82	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-28.69	-11.91	0.42	-20.31	17.58	28.96	11.30	1.33	N/A	N/A
TPG Opportunities Partners II, LP	-12.05	1.84	19.41	5.30	15.55	20.34	14.77	15.10	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	-11.86	-5.64	16.79	-7.40	13.93	20.74	3.04	5.61	N/A	N/A
TPG Opportunities Partners III, LP	3.19	3.04	18.07	13.83	12.79	-4.83	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	3.38	-4.44	15.45	1.13	11.17	-4.43	N/A	N/A	N/A	N/A
TPG TAO	5.19	7.83	8.28	11.66	6.88	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	5.38	0.35	5.66	-1.04	5.26	N/A	N/A	N/A	N/A	N/A
TSSP Opportunities Partners IV, LP	2.61	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	2.80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Whitehorse Liquidity Partners IV LP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Private Credit)</i>	-0.19	7.48	2.62	12.70	1.62	-0.40	11.73	9.49	7.27	15.63
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Inflation Protected (unlevered)	4.64	4.76	3.58	1.96	4.21	5.47	11.03	-5.27	16.80	17.17
<i>Blended Policy (Inflation Protected)</i>	8.31	6.63	3.44	1.93	6.16	-1.73	4.44	-4.78	11.66	7.74
Value Added	-3.67	-1.87	0.14	0.03	-1.95	7.20	6.59	-0.49	5.14	9.43
U.S. Inflation Protected (unlevered)	8.22	3.82	2.24	0.75	4.66	-1.21	5.01	-4.12	14.36	10.96

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## Fiscal Year Performance

	Performance (%)									
	FY20	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11
<i>Blended Policy (U.S. Inflation Protected)</i>	8.60	4.84	2.11	-0.63	4.35	-1.73	4.44	-4.78	11.66	7.74
Value Added	-0.38	-1.02	0.13	1.38	0.31	0.52	0.57	0.66	2.70	3.22
PSERS Total TIPS (unlevered)	8.22	3.82	2.24	0.75	4.66	-1.21	5.01	-4.12	12.17	7.80
<i>Blended Policy (U.S. Inflation Protected)</i>	8.60	4.84	2.11	-0.63	4.35	-1.73	4.44	-4.78	11.66	7.74
Value Added	-0.38	-1.02	0.13	1.38	0.31	0.52	0.57	0.66	0.51	0.06
PSERS TIPS	7.84	4.98	2.87	0.19	4.66	-1.21	5.01	-4.12	12.17	7.80
<i>Blended Policy (U.S. Inflation Protected)</i>	8.60	4.84	2.11	-0.63	4.35	-1.73	4.44	-4.78	11.66	7.74
Value Added	-0.76	0.14	0.76	0.82	0.31	0.52	0.57	0.66	0.51	0.06
PSERS TIPS Swap (Long)	8.54	4.84	2.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>TIPS Swap Custom Benchmark</i>	8.60	4.84	2.11	-0.63	4.35	-1.73	4.44	-4.78	11.66	7.74
Value Added	-0.06	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-U.S. Inflation Protected (unlevered)	0.93	5.92	5.01	3.06	4.26	N/A	N/A	N/A	N/A	N/A
<i>Bloomberg Barclays World Govt ex U.S. ILB Index (H\$)</i>	7.27	7.98	4.29	4.02	9.47	7.79	4.13	1.04	7.24	5.70
Value Added	-6.34	-2.06	0.72	-0.96	-5.21	N/A	N/A	N/A	N/A	N/A
Bridgewater TIPS (unlevered)	0.93	5.92	5.01	3.06	4.26	N/A	N/A	N/A	N/A	N/A
<i>BGI Custom IL Bond Index (unlevered)</i>	4.54	5.83	3.90	1.50	N/A	N/A	N/A	N/A	N/A	N/A
Value Added	-3.61	0.09	1.11	1.56	N/A	N/A	N/A	N/A	N/A	N/A
PIMCO Multi-Sector Strategy	1.43	9.66	1.39	1.32	5.66	-1.01	7.47	3.06	N/A	N/A
<i>Blended Policy (PIMCO Multi-Sector)</i>	13.35	10.34	1.23	-1.30	7.97	-0.87	8.00	2.61	7.47	3.90
Value Added	-11.92	-0.68	0.16	2.62	-2.31	-0.14	-0.53	0.45	N/A	N/A
Total Real Asset Exposure (unlevered/hedged)	-4.71	4.49	7.77	4.12	0.48	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Real Assets) (Hedged)</i>	-4.61	5.13	7.54	2.49	1.92	N/A	N/A	N/A	N/A	N/A
Value Added	-0.10	-0.64	0.23	1.63	-1.44	N/A	N/A	N/A	N/A	N/A
Public Real Assets (unlevered/hedged)	-10.70	3.18	3.73	0.68	-14.08	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Real Assets x Private) (Hedged)</i>	-9.46	3.81	3.28	-1.04	-9.28	-18.14	14.92	1.98	-1.37	26.17
Value Added	-1.24	-0.63	0.45	1.72	-4.80	N/A	N/A	N/A	N/A	N/A
Insight Nevada Currency Hedge - Infra (notional)	3.22	3.09	1.46	0.23	N/A	N/A	N/A	N/A	N/A	N/A
<i>Currency Hedge Benchmark - Infra</i>	3.34	3.21	1.49	0.51	N/A	N/A	N/A	N/A	N/A	N/A
Value Added	-0.12	-0.12	-0.03	-0.28	N/A	N/A	N/A	N/A	N/A	N/A
Publicly-Traded Infrastructure Composite (unlevered)	-25.84	14.33	3.38	9.82	N/A	N/A	N/A	N/A	N/A	N/A
<i>FTSE Developed Core Infrast 50/50 Index (Net)</i>	-8.96	14.33	3.38	9.82	10.84	-3.64	24.35	14.29	5.76	25.80
Value Added	-16.88	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
PSERS Infrastructure Index (Long)	-8.96	14.33	3.38	9.82	N/A	N/A	N/A	N/A	N/A	N/A
<i>FTSE Developed Core Infrast 50/50 Index (Net)</i>	-8.96	14.33	3.38	9.82	10.84	-3.64	24.35	14.29	5.76	25.80
Value Added	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
MLP Composite	-35.43	1.55	0.27	4.19	-18.75	-10.44	35.97	37.08	13.73	34.02
<i>Blended Policy (MLP)</i>	-30.96	3.23	-1.76	3.23	-18.93	-16.48	24.87	29.50	7.72	28.44

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## Fiscal Year Performance

	Performance (%)									
	FY20	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11
Value Added	-4.47	-1.68	2.03	0.96	0.18	6.04	11.10	7.58	6.01	5.58
PSERS Midstream Energy Index	-35.84	1.13	0.60	3.41	N/A	N/A	N/A	N/A	N/A	N/A
MLP Internal Blended Benchmark	-35.41	1.72	0.18	3.23	-18.93	-16.48	24.87	29.50	7.72	28.44
Value Added	-0.43	-0.59	0.42	0.18	N/A	N/A	N/A	N/A	N/A	N/A
External MLP Composite	-35.15	1.72	0.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blended Policy (MLP)	-30.96	3.23	-1.76	3.23	-18.93	-16.48	24.87	29.50	7.72	28.44
Value Added	-4.19	-1.51	1.94	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Atlantic Trust	-33.92	2.27	0.56	3.98	-17.20	-9.18	34.56	N/A	N/A	N/A
Blended Policy (MLP)	-30.96	3.23	-1.76	3.23	-18.93	-16.48	24.87	29.50	7.72	28.44
Value Added	-2.96	-0.96	2.32	0.75	1.73	7.30	9.69	N/A	N/A	N/A
Salient	-34.68	1.78	-0.48	6.61	-23.36	-13.08	42.46	N/A	N/A	N/A
Blended Policy (MLP)	-30.96	3.23	-1.76	3.23	-18.93	-16.48	24.87	29.50	7.72	28.44
Value Added	-3.72	-1.45	1.28	3.38	-4.43	3.40	17.59	N/A	N/A	N/A
Public Commodities Composite (unlevered)	2.13	11.22	5.36	-3.48	-1.34	-18.27	9.69	-7.55	-13.38	31.84
Blended Policy (Commodities)	-2.68	0.17	4.67	-6.41	-4.56	-19.59	8.22	-8.00	-14.32	25.89
Value Added	4.81	11.05	0.69	2.93	3.22	1.32	1.47	0.45	0.94	5.95
Public Commodities ex Gold (unlevered)	-18.08	-6.61	9.83	-0.99	-9.73	-21.81	9.06	N/A	N/A	N/A
Bloomberg Commodity Index Total Return	-17.38	-6.75	7.35	-6.50	-13.32	-23.71	8.21	-8.01	-14.32	25.91
Value Added	-0.70	0.14	2.48	5.51	3.59	1.90	0.85	N/A	N/A	N/A
PSERS Commodity Beta (Long)	-17.38	-6.75	7.35	-6.50	-13.32	-23.71	N/A	N/A	N/A	N/A
Bloomberg Commodity Index Total Return	-17.38	-6.75	7.35	-6.50	-13.32	-23.71	8.21	-8.01	-14.32	25.91
Value Added	0.00	0.00	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A
Gresham	-17.18	-7.89	13.01	-3.23	-14.74	-23.20	10.36	-5.18	-11.94	32.94
Bloomberg Commodity Index Total Return	-17.38	-6.75	7.35	-6.50	-13.32	-23.71	8.21	-8.01	-14.32	25.91
Value Added	0.20	-1.14	5.66	3.27	-1.42	0.51	2.15	2.83	2.38	7.03
Wellington Management Company	-16.72	-5.14	13.57	1.06	-9.21	-24.65	17.89	-6.57	-15.16	36.73
Blended Benchmark (Wellington)	-19.95	-5.76	17.66	-0.28	-8.70	-24.61	18.45	-3.65	-11.97	36.87
Value Added	3.23	0.62	-4.09	1.34	-0.51	-0.04	-0.56	-2.92	-3.19	-0.14
Gold Composite (unlevered)	25.67	9.84	-1.10	-7.45	12.97	-11.54	9.78	-23.83	N/A	N/A
Bloomberg Gold Subindex Total Return	25.67	12.06	0.20	-6.94	12.23	-11.72	7.70	-24.26	6.01	19.78
Value Added	0.00	-2.22	-1.30	-0.51	0.74	0.18	2.08	0.43	N/A	N/A
PSERS Gold (Long)	25.67	12.06	0.20	-6.94	N/A	N/A	N/A	N/A	N/A	N/A
Bloomberg Gold Subindex Total Return	25.67	12.06	0.20	-6.94	12.23	-11.72	7.70	-24.26	6.01	19.78
Value Added	0.00	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
Public Real Estate Composite (unlevered/hedged)	-18.36	9.80	7.02	0.32	14.37	-0.66	9.42	10.62	9.58	18.35
Blended Policy (PTRES) (Hedged)	-15.02	9.08	6.35	1.41	10.08	-0.26	12.49	14.21	1.14	31.53
Value Added	-3.34	0.72	0.67	-1.09	4.29	-0.40	-3.07	-3.59	8.44	-13.18
Insight Sierra Currency Hedge - REIT (notional)	2.69	2.65	1.14	2.41	N/A	N/A	N/A	N/A	N/A	N/A
Currency Hedge Benchmark - REIT	2.72	2.77	1.22	2.57	N/A	N/A	N/A	N/A	N/A	N/A

As of June 30, 2020

## Fiscal Year Performance

	Performance (%)									
	FY20	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11
Value Added	-0.03	-0.12	-0.08	-0.16	N/A	N/A	N/A	N/A	N/A	N/A
PSERS REIT Index (Long)	-16.26	7.68	5.64	0.21	N/A	N/A	N/A	N/A	N/A	N/A
<i>FTSE EPRA/NAREIT Developed Index (Net)</i>	-16.25	7.68	5.64	0.21	11.58	-0.36	13.55	13.50	1.62	32.52
Value Added	-0.01	0.00	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A
Security Capital Preferred Growth	-2.01	9.33	10.31	-5.05	23.75	-0.66	9.42	10.62	9.58	18.39
<i>Wilshire US Real Estate Securities Index</i>	-12.39	10.47	4.00	-1.23	23.55	5.59	13.77	8.38	12.56	35.69
Value Added	10.38	-1.14	6.31	-3.82	0.20	-6.25	-4.35	2.24	-2.98	-17.30
Private Real Assets	4.57	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Private Infrastructure Composite	3.42	15.06	15.55	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>FTSE Developed Core Infrastructure 50/50 Index (Net) 1Q Lag</i>	-14.09	14.07	4.61	9.20	2.78	8.13	12.42	16.86	7.82	13.41
Value Added	17.51	0.99	10.94	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Private Infrastructure ex Co-Invest	3.01	11.68	15.55	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PSERS Private Infrastructure Internal Co-Invest	6.96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Private Commodities Composite	-22.40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Private Commodities ex Co-Invest	-24.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PSERS Private Commodities Internal Co-Invest	-0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Private Real Estate Composite	5.58	7.45	14.45	9.58	8.59	14.38	16.65	9.24	7.88	20.17
<i>Blended Policy (Private Real Estate)</i>	2.59	6.26	14.36	7.89	9.60	16.19	11.08	9.71	9.79	17.75
Value Added	2.99	1.19	0.09	1.69	-1.01	-1.81	5.57	-0.47	-1.91	2.42
Private Real Estate ex Internal Co-Invest	5.58	7.21	14.43	9.50	8.44	14.33	16.53	9.24	7.88	20.17
PSERS Real Estate Internal Co-Invest	5.30	17.39	15.86	13.70	22.90	20.44	43.40	N/A	N/A	N/A
Risk Parity Composite (vol adjusted)	0.14	8.16	6.76	7.18	0.01	-0.86	18.07	N/A	N/A	N/A
<i>Blended Policy (Risk Parity)</i>	10.51	9.41	6.11	5.81	5.14	-0.81	16.45	-1.58	14.02	25.44
Value Added	-10.37	-1.25	0.65	1.37	-5.13	-0.05	1.62	N/A	N/A	N/A
BlackRock Market Advantage II (vol adjusted)	-5.19	14.12	9.80	9.32	2.84	N/A	N/A	N/A	N/A	N/A
Bridgewater All Weather @15% (vol adjusted)	0.85	7.69	8.75	6.11	0.23	-1.39	17.61	N/A	N/A	N/A
Bridgewater Optimal @ 12% (vol adjusted)	-10.67	2.98	2.92	10.15	N/A	N/A	N/A	N/A	N/A	N/A
DE Shaw Orienteer HV (vol adjusted)	-16.41	16.55	5.67	5.80	N/A	N/A	N/A	N/A	N/A	N/A
PSERS Risk Parity Composite (vol adjusted to 12%)	8.86	6.53	6.63	7.82	3.06	1.22	16.65	N/A	N/A	N/A
Total Absolute Return Composite	-0.49	2.42	4.84	9.00	-3.43	0.00	6.69	4.34	2.79	14.13
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	-2.23	-3.74	-0.50	4.47	-7.44	-3.76	-0.81	-3.16	-4.71	6.13
Aeolus Property Catastrophe Keystone PF Fund, LP	5.94	-6.01	-18.92	10.44	13.46	17.42	20.76	17.52	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	4.20	-12.17	-24.26	5.91	9.45	13.66	13.26	10.02	N/A	N/A
AKAZ Offshore Fund Ltd	31.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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## Fiscal Year Performance

	Performance (%)									
	FY20	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	29.51	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Bridgewater Pure Alpha Fund II, Ltd.</b>	-16.63	4.78	11.11	13.87	-16.02	9.04	18.96	4.35	13.55	46.81
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	-18.37	-1.38	5.77	9.34	-20.03	5.28	11.46	-3.15	6.05	38.81
<b>Brigade Leveraged Capital Structures Offshore Fund, Ltd.</b>	-15.36	4.43	7.03	13.44	-3.04	-0.58	9.38	5.22	2.72	7.34
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	-17.10	-1.73	1.69	8.91	-7.05	-4.34	1.88	-2.28	-4.78	-0.66
<b>Capula Global Relative Value Fund Limited</b>	9.69	6.76	4.29	8.19	6.85	9.48	8.50	4.71	4.33	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	7.95	0.60	-1.05	3.66	2.84	5.72	1.00	-2.79	-3.17	N/A
<b>Capula Tail Risk Fund Limited</b>	13.22	-2.15	-3.70	-5.07	1.62	0.05	-4.72	-6.02	4.38	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	11.48	-8.31	-9.04	-9.60	-2.39	-3.71	-12.22	-13.52	-3.12	N/A
<b>Carlyle Aviation/SASOF III LP</b>	-3.45	34.92	9.49	29.78	-6.52	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	-5.19	28.76	4.15	25.25	-10.53	N/A	N/A	N/A	N/A	N/A
<b>Carlyle Aviation/SASOF IV LP</b>	-16.19	12.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	-17.93	5.90	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Carlyle Aviation/SASOF V LP</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Caspian Keystone Focused Fund, LP</b>	16.53	17.11	3.39	11.46	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	14.79	10.95	-1.95	6.93	N/A	N/A	N/A	N/A	N/A	N/A
<b>Caspian Select Credit International, Ltd.</b>	-2.97	3.17	4.36	12.60	-8.81	-3.26	10.05	11.26	-0.33	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	-4.71	-2.99	-0.98	8.07	-12.82	-7.02	2.55	3.76	-7.83	N/A
<b>Falko Regional Aircraft Opportunities Fund II</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Garda Fixed Income Relative Value Opportunity Fund Ltd.</b>	18.64	5.82	4.24	8.67	2.70	2.61	8.19	5.71	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	16.90	-0.34	-1.10	4.14	-1.31	-1.15	0.69	-1.79	N/A	N/A
<b>HS Group Sponsor Fund II, Ltd.</b>	8.77	-3.41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	7.03	-9.57	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Independence Reinsurance Partners Composite</b>	8.09	-1.73	-14.61	7.55	N/A	N/A	N/A	N/A	N/A	N/A



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## Fiscal Year Performance

	Performance (%)									
	FY20	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	6.35	-7.89	-19.95	3.02	N/A	N/A	N/A	N/A	N/A	N/A
DaVinci Reinsurance Ltd.	12.46	6.18	-17.12	10.99	N/A	N/A	N/A	N/A	N/A	N/A
RenaissanceRe Medici Fund Ltd.	5.92	0.87	3.28	5.09	N/A	N/A	N/A	N/A	N/A	N/A
Upsilon Diversified Fund Ltd.	6.93	-7.45	-57.78	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nephila/Nimbus Weather Fund	0.92	-0.32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	-0.82	-6.48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nephila/Palmetto Fund Ltd.	0.95	-2.98	-6.49	2.72	5.73	6.01	6.96	9.40	5.47	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	-0.79	-9.14	-11.83	-1.81	1.72	2.25	-0.54	1.90	-2.03	N/A
Oceanwood Investments SPC Co-Invest	-17.71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	-19.45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oceanwood Opportunities Fund	2.99	0.88	5.55	22.41	-13.29	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	1.25	-5.28	0.21	17.88	-17.30	N/A	N/A	N/A	N/A	N/A
OWS Credit Opportunity Offshore Fund III, Ltd.	-7.16	6.30	13.52	19.58	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	-8.90	0.14	8.18	15.05	N/A	N/A	N/A	N/A	N/A	N/A
Perry Partners LP	-20.68	7.68	-1.12	2.13	-13.85	-8.99	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	-22.42	1.52	-6.46	-2.40	-17.86	-12.75	N/A	N/A	N/A	N/A
PIMCO PARS/GCOF/MAV/PCAF Composite	-2.46	3.78	1.61	2.25	0.06	7.01	3.75	8.55	6.96	8.40
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	-4.20	-2.38	-3.73	-2.28	-3.95	3.25	-3.75	1.05	-0.54	0.40
PIMCO Absolute Return Strategy V Offshore Fund, Ltd.	-12.02	1.15	-0.18	2.76	-0.21	16.79	7.24	N/A	N/A	N/A
PIMCO Global Credit Opportunity Offshore Fund, Ltd.	-3.60	3.31	6.01	7.54	3.76	8.15	5.93	N/A	N/A	N/A
PIMCO Commodity Alpha Fund	6.58	6.95	11.65	19.37	18.94	N/A	N/A	N/A	N/A	N/A
Two Sigma Risk Premia Enhanced Fund, LP	-11.70	2.00	7.85	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	-13.44	-4.16	2.51	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Venor Capital Offshore, Ltd.	0.30	-0.35	13.92	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>Blended Policy (Absolute Return)</i>	1.74	6.16	5.34	4.53	4.01	3.76	7.50	7.50	7.50	8.00
Value Added	-1.44	-6.51	8.58	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cash & Cash Equivalents	1.67	2.20	1.79	0.34	-0.24	-5.56	0.33	0.54	6.14	0.68



As of June 30, 2020

## Fiscal Year Performance

	Performance (%)									
	FY20	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11
<i>ICE BofAML US Treasury Bills 0-3M</i>	1.47	2.28	1.30	0.44	0.13	0.02	0.03	0.08	0.04	0.13
Value Added	0.20	-0.08	0.49	-0.10	-0.37	-5.58	0.30	0.46	6.10	0.55
PSERS Cash Management	1.79	2.42	1.73	0.34	0.08	0.15	0.33	0.55	0.46	0.70
PSERS Derivatives Collateral	1.36	2.22	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

As of June 30, 2020

## Fiscal Year Performance

	Performance (%)									
	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11	FY10
<b>Financing Composite</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>ICE BofAML USD 3-Mo Deposit Offered Rate Average Index</i>	2.59	1.67	0.94	0.46	N/A	N/A	N/A	N/A	N/A	N/A
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PSERS Commodity Beta (Short/Financing)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>FTSE 1 Month T-Bill</i>	2.28	1.27	0.42	0.11	0.02	0.01	0.04	0.03	0.08	0.09
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PSERS Gold (Short/Financing)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>FTSE 1 Month T-Bill</i>	2.28	1.27	0.42	0.11	0.02	0.01	0.04	0.03	0.08	0.09
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PSERS Infrastructure Index (Short/Financing)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>ICE BofAML USD 3-Mo Deposit Offered Rate Average Index</i>	2.59	1.67	0.94	0.46	N/A	N/A	N/A	N/A	N/A	N/A
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PSERS REIT Index (Short/Financing)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>ICE BofAML USD 3-Mo Deposit Offered Rate Average Index</i>	2.59	1.67	0.94	0.46	N/A	N/A	N/A	N/A	N/A	N/A
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PSERS TIPS Swap (Short/Financing)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>ICE BofAML USD 3-Mo Deposit Offered Rate Average Index</i>	2.59	1.67	0.94	0.46	N/A	N/A	N/A	N/A	N/A	N/A
Value Added	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

The Short/Financing segments represent leverage, and therefore have negative asset balances. Due to the negative asset balance, a negative value-added relative to the benchmark represents outperformance, while a positive value added represents underperformance.

As of June 30, 2020

## Fiscal Year Performance

	Performance (%)									
	FY19	FY18	FY17	FY16	FY15	FY14	FY13	FY12	FY11	FY10
<b>PSERS Ultra Short Duration</b>	2.50	1.54	0.75	0.36	0.19	0.26	0.22	0.27	0.30	0.33
<i>ICE BofAML US Treasury Bills 0-3M</i>	2.28	1.30	0.44	0.13	0.02	0.03	0.08	0.04	0.13	0.12
Value Added	0.22	0.24	0.31	0.23	0.17	0.23	0.14	0.23	0.17	0.21
<b>LIBOR Composite</b>	3.07	1.86	1.60	1.21	0.73	1.38	1.29	0.90	0.92	1.35
<i>LIBOR Plus Hybrid</i>	2.59	1.67	0.92	0.47	0.25	0.25	0.35	0.43	0.35	0.35
Value Added	0.48	0.19	0.68	0.74	0.48	1.13	0.94	0.47	0.57	1.00
<b>Penn Mutual Asset Management</b>	3.43	2.52	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>LIBOR Plus Hybrid</i>	2.59	1.67	0.92	0.47	0.25	0.25	0.35	0.43	0.35	0.35
Value Added	0.84	0.85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>PSERS LIBOR Plus</b>	2.90	1.92	1.48	0.87	0.49	0.94	0.65	0.70	0.96	1.53
<i>LIBOR Plus Hybrid</i>	2.59	1.67	0.92	0.47	0.25	0.25	0.35	0.43	0.35	0.35
Value Added	0.31	0.25	0.56	0.40	0.24	0.69	0.30	0.27	0.61	1.18
<b>Radcliffe Ultra Short Duration</b>	4.19	2.38	3.35	3.09	1.77	3.10	2.81	N/A	N/A	N/A
<i>Blended Benchmark (Radcliffe Ultra Short)</i>	2.57	1.77	0.99	0.50	0.25	0.24	0.33	0.43	0.31	0.34
Value Added	1.62	0.61	2.36	2.59	1.52	2.86	2.48	N/A	N/A	N/A
<b>PSERS Healthcare &amp; HOP</b>										
<b>PSERS Healthcare - HOP</b>	2.51	1.57	0.76	0.38	0.21	0.21	0.25	0.27	0.36	0.52
<i>ICE BofAML 3 Month U.S. T-Bill</i>	2.31	1.36	0.49	0.19	0.02	0.06	0.11	0.05	0.16	0.16
Value Added	0.20	0.21	0.27	0.19	0.19	0.15	0.14	0.22	0.20	0.36
<b>PSERS Healthcare - Premium Assist</b>	2.68	1.63	0.90	0.68	0.30	0.41	0.41	0.79	1.10	1.57
<i>ICE BofAML 3 Month U.S. T-Bill</i>	2.31	1.36	0.49	0.19	0.02	0.06	0.11	0.05	0.16	0.16
Value Added	0.37	0.27	0.41	0.49	0.28	0.35	0.30	0.74	0.94	1.41
<b>E/M Total Program Composite</b>	6.03	2.08	3.62	3.07	-0.32	15.74	10.26	-5.04	20.63	14.69
<b>E/M Short Duration Cash</b>	5.75	2.45	4.66	3.57	N/A	N/A	N/A	N/A	N/A	N/A
<b>Radcliffe Ultra Short Duration</b>	4.19	2.38	3.35	3.09	1.77	3.10	2.81	N/A	N/A	N/A
<i>Blended Benchmark (Radcliffe Ultra Short)</i>	2.57	1.77	0.99	0.50	0.25	0.24	0.33	0.43	0.31	0.34
Value Added	1.62	0.61	2.36	2.59	1.52	2.86	2.48	N/A	N/A	N/A
<b>Radcliffe Specialty Finance Debt</b>	6.98	2.50	5.73	3.96	N/A	N/A	N/A	N/A	N/A	N/A
<i>3-Month Libor + 0.60%</i>	3.18	2.38	1.60	1.10	0.85	0.84	0.93	1.04	0.91	0.95
Value Added	3.80	0.12	4.13	2.86	N/A	N/A	N/A	N/A	N/A	N/A

## Asset Allocation

	(\$)	Total Fund	%
<b>PSERS Total Fund Composite</b>	<b>56,614,371</b>		<b>100.0</b>
<b>Total Public Global Equity Composite (hedged)</b>	<b>9,852,090</b>		<b>17.4</b>
Equity Rebalance Account	-		0.0
PSERS Non-US Equity Rebalance Account	-46,742		-0.1
PSERS Equity Liquidation	561		0.0
Global Tax Reclaim	4		0.0
<b>Total US Equity Composite</b>	<b>2,780,081</b>		<b>4.9</b>
<b>PSERS-S&amp;P 500 Index Composite</b>	<b>2,087,713</b>		<b>3.7</b>
Radcliffe Specialty Finance Debt	361,417		0.6
PSERS-S&P 400 Index Composite	345,712		0.6
PSERS-S&P 600 Index Composite	346,657		0.6
<b>Total Non-U.S. Equity Composite (hedged)</b>	<b>7,118,185</b>		<b>12.6</b>
<b>Total Non-U.S. Equity x Emerging Markets Composite (hedged)</b>	<b>6,319,883</b>		<b>11.2</b>
Insight Everest Currency Hedge - Int'l Eq	5,311		0.0
<b>Non-US Large/Mid Cap Equity Composite</b>	<b>5,435,316</b>		<b>9.6</b>
<b>PSERS ACWI x US Fund</b>	<b>2,909,881</b>		<b>5.1</b>
BlackRock EMAA	449,030		0.8
<b>Active Non-US Large/Mid Cap Composite</b>	<b>2,525,435</b>		<b>4.5</b>
Baillie Gifford	953,471		1.7
BlackRock Emerging Markets Alpha Advantage Fund Ltd	148,165		0.3
Effissimo Capital Partners Feeder Fund 2 LP	166,115		0.3
Marathon Asset Mgmt	752,839		1.3
The Children's Investment Fund, LP	504,845		0.9
<b>Non-US Small Cap Equity Composite</b>	<b>879,256</b>		<b>1.6</b>
Acadian Asset Mgmt	245,925		0.4
Fidelity Institutional Int'l Small Cap	85		0.0
Oberweis Asset Mgmt	230,979		0.4
QS Investors	85,833		0.2
Wasatch Int'l Small Cap	316,434		0.6
<b>Emerging Markets Equity Composite</b>	<b>798,302</b>		<b>1.4</b>
Cederberg China Equity Fund	257,112		0.5
Steadview Capital Partners LP	178,330		0.3

Private Equity, Private Real Estate, Private Infrastructure, and Private Commodities investments are valued on a one quarter lag.

## Asset Allocation

	Total Fund	
	(\$)	%
Wasatch EM Small Cap	362,860	0.6
<b>Total Private Equity (hedged)</b>	<b>7,721,296</b>	<b>13.6</b>
Insight Wilson Currency Hedge - PE Internal Co-Invest (1Q Lag)	-36	0.0
Managed Stock Distribution	26,437	0.0
PSERS Private Equity Internal Co-Invest ex PA	641,285	1.1
PSERS Private Equity Internal Pennsylvania Co-Invest Composite	45,683	0.1
PSERS Private Equity Internal Co-Invest - PA Internal	2,519	0.0
PSERS Private Equity Internal Co-Invest - PA External	43,165	0.1
Buyout	4,831,220	8.5
Special Situations Composite	1,067,814	1.9
Venture Capital - Growth Equity	1,108,893	2.0
<b>Total Fixed Income Exposure</b>	<b>17,843,121</b>	<b>31.5</b>
<b>Investment Grade Composite</b>	<b>5,746,537</b>	<b>10.2</b>
US Core Plus Fixed Income Composite	2,479,310	4.4
BlackRock Global Alpha	916,464	1.6
PSERS Active Core Plus Fixed Income	1,448,508	2.6
SEI Investment Management	114,338	0.2
Non-U.S. Developed Markets Fixed Income Composite	24	0.0
Alliance Bernstein Global Fixed	24	0.0
U.S. Treasuries Total Composite	3,267,203	5.8
PSERS Funded U.S. Long Treasuries	3,267,203	5.8
<b>Credit-Related (hedged)</b>	<b>371,649</b>	<b>0.7</b>
Emerging Markets Fixed Income Composite	371,649	0.7
Franklin Templeton Emerging Fixed Income	371,649	0.7
<b>Private Credit Composite (hedged)</b>	<b>5,220,365</b>	<b>9.2</b>
Insight Oxygen Currency Hedge - Private Credit	-8,725	0.0
PSERS Private Credit Internal Co-Invest	137,213	0.2
Apollo European Principal Fund II	33,554	0.1
Apollo European Principal Fund III	91,036	0.2
Avenue Energy Opportunities Fund	168,051	0.3

Private Equity, Private Real Estate, Private Infrastructure, and Private Commodities investments are valued on a one quarter lag.

## Asset Allocation

	Total Fund	
	(\$)	%
Avenue Energy Opportunities Fund II	100,396	0.2
Avenue Europe SS III	188,437	0.3
Bain Capital Credit Managed Account (PSERS), L.P.	369,818	0.7
Bain Capital Credit Opp. Fund IV	16,424	0.0
Bain Capital Distressed and Special Situations 2013	134,664	0.2
Bain Capital Distressed and Special Situations 2016 (A), L.P.	261,471	0.5
Bain Capital Distressed and Special Situations 2019 (A), L.P.	78,630	0.1
Bain Capital Middle Market Credit 2010, L.P.	24,474	0.0
Bain Capital Middle Market Credit 2014, L.P.	82,595	0.1
Brigade Distressed Value	158,837	0.3
Brigade Structured Credit Offshore Fund	259,330	0.5
Carlyle Energy Mezz. Opp. Fund	20,794	0.0
Carlyle Energy Mezz. Opp. Fund II	86,294	0.2
Cerberus Levered Loan Fund I	1,216	0.0
Cerberus Levered Loan Fund II	47,561	0.1
Cerberus PSERS Levered Loan Opportunities Fund	362,705	0.6
Clearlake Opportunities Partners II, LP	26,982	0.0
Galton Onshore Mortgage Recovery Fund III, LP	23,395	0.0
Galton Onshore Mortgage Recovery Fund IV, L.P.	43,375	0.1
Hayfin SOF II USD LP	126,747	0.2
Hayfin SOF II USD Co-Invest	31,141	0.1
Hayfin Special Opportunities Credit LP	24,065	0.0
ICG Europe Fund V	46,225	0.1
ICG Europe Fund VI	145,367	0.3
ICG Europe Fund VII	80,826	0.1
Latitude Management Real Estate Capital IV	52,500	0.1
LBC Credit Partners III	42,402	0.1
LBC-P Credit Fund LP	275,098	0.5
Mariner/Galton RMBS	221,613	0.4
Newmarket International Infrastructure Finance Company Fund, L.P.	35,201	0.1
Park Square Credit Opportunities	204,093	0.4
PIMCO BRAVO Fund III Onshore Feeder, L.P.	264,991	0.5
PIMCO Commercial Real Estate Debt Fund, L.P.	102,039	0.2

Private Equity, Private Real Estate, Private Infrastructure, and Private Commodities investments are valued on a one quarter lag.

## Asset Allocation

	Total Fund	
	(\$)	%
Sixth Street Fundamental Strategies Partners	-	0.0
SSG Capital Partners V, LP	20,787	0.0
SSG Capital Partners V Sidecar, LP	3,597	0.0
Summit Partners Credit Fund II LP	136,858	0.2
TCI Real Estate Partners Fund III, L.P.	67,116	0.1
The Varde Scratch and Dent Fund, LP	37,971	0.1
The Varde Scratch and Dent Fund Feed I-A	36,279	0.1
TOP NPL (A)	3,539	0.0
TPG Opportunities Partners II, LP	8,128	0.0
TPG Opportunities Partners III, LP	62,715	0.1
TPG TAO	427,716	0.8
TSSP Opportunities Partners IV, LP	54,001	0.1
Whitehorse Liquidity Partners IV LP	827	0.0
<b>Inflation Protected</b>	<b>6,486,582</b>	<b>11.5</b>
U.S. Inflation Protected (unlevered)	4,222,785	7.5
PSERS Total TIPS (unlevered)	4,222,785	7.5
Non-U.S. Inflation Protected (levered)	2,263,797	4.0
Bridgewater TIPS (levered)	2,263,797	4.0
PIMCO Multi-Sector Strategy	16,642	0.0
PSERS Fixed Liquidation	1,346	0.0
Fixed Rebalance Account	-	0.0
<b>Total Real Asset Exposure (unlevered/hedged)</b>	<b>13,175,089</b>	<b>23.3</b>
<b>Public Infrastructure (unlevered/hedged)</b>	<b>2,490,846</b>	<b>4.4</b>
Insight Nevada Currency Hedge - Infra	-13,537	0.0
PSERS Infrastructure Index (Long)	1,282,390	2.3
MLP Composite	1,221,994	2.2
PSERS Midstream Energy Index	548,591	1.0
External MLP Composite	673,403	1.2
Atlantic Trust	330,182	0.6
Salient	343,221	0.6

Private Equity, Private Real Estate, Private Infrastructure, and Private Commodities investments are valued on a one quarter lag.

## Asset Allocation

	Total Fund	
	(\$)	%
Public Commodities Composite (unlevered)	4,535,194	8.0
PSERS Commodity Beta (Long)	1,007,678	1.8
Gresham	271,865	0.5
Wellington Management Company	370,710	0.7
Gold Composite (unlevered)	2,884,942	5.1
PSERS Gold (Long)	2,884,942	5.1
Public Real Estate Composite (unlevered/hedged)	797,209	1.4
Insight Sierra Currency Hedge - REIT	-3,157	0.0
PSERS REIT Index (Long)	620,942	1.1
Security Capital Preferred Growth	179,423	0.3
<b>Private Real Assets</b>	<b>5,351,840</b>	<b>9.5</b>
Private Infrastructure Composite	363,942	0.6
Private Infrastructure ex Co-Invest	324,243	0.6
PSERS Private Infrastructure Internal Co-Invest	39,699	0.1
Private Commodities Composite	152,540	0.3
Private Commodities ex Co-Invest	135,022	0.2
PSERS Private Commodities Internal Co-Invest	17,518	0.0
Private Real Estate	4,835,358	8.5
Private Real Estate ex Internal Co-Invest	4,765,948	8.4
PSERS Real Estate Internal Co-Invest	69,410	0.1
<b>Risk Parity Composite</b>	<b>3,963,080</b>	<b>7.0</b>
BlackRock Market Advantage II	446,985	0.8
Bridgewater All Weather @15%	667,283	1.2
Bridgewater Optimal @ 12%	413,710	0.7
DE Shaw Orienteer HV	341,695	0.6
PSERS Risk Parity Composite	2,093,407	3.7
PSERS Risk Parity	1,780,695	3.1
PSERS Risk Parity LIBOR	312,712	0.6
<b>Total Absolute Return Composite</b>	<b>6,005,519</b>	<b>10.6</b>
Aeolus Property Catastrophe Keystone PF Fund, LP	357,528	0.6
AKAZ Offshore Fund Ltd	248,885	0.4

Private Equity, Private Real Estate, Private Infrastructure, and Private Commodities investments are valued on a one quarter lag.



## Asset Allocation

	Total Fund	
	(\$)	%
Bridgewater Pure Alpha Fund II, Ltd.	839,808	1.5
Brigade Leveraged Capital Structures Offshore Fund, Ltd.	278,111	0.5
Capula Global Relative Value Fund Limited	513,472	0.9
Capula Tail Risk Fund Limited	257,608	0.5
Carlyle Aviation/SASOF II LP	1,010	0.0
Carlyle Aviation/SASOF III LP	21,366	0.0
Carlyle Aviation/SASOF IV LP	70,069	0.1
Carlyle Aviation/SASOF V LP	907	0.0
Caspian Keystone Focused Fund, LP	90,927	0.2
Caspian Select Credit International, Ltd.	254,170	0.4
Falko Regional Aircraft Opportunities Fund II	54,586	0.1
Garda Fixed Income Relative Value Opportunity Fund Ltd.	518,171	0.9
HS Group Sponsor Fund II, Ltd.	63,051	0.1
<b>Independence Reinsurance Partners Composite</b>	<b>220,826</b>	<b>0.4</b>
Independence Reinsurance Partners Cash	-21	0.0
DaVinci Reinsurance Ltd.	63,647	0.1
Renaissance Medici Fund Ltd.	65,383	0.1
Upsilon Diversified Fund	91,817	0.2
Nephila/Nimbus Weather Fund	148,670	0.3
Nephila/Palmetto Fund Ltd.	208,952	0.4
Oceanwood Investments SPC Co-Invest	11,053	0.0
Oceanwood Opportunities Fund	251,435	0.4
OWS Credit Opportunity Offshore Fund III, Ltd.	346,735	0.6
Perry Partners LP	8,688	0.0
<b>PIMCO PARS/GCOF/MAV/PCAF Composite</b>	<b>874,347</b>	<b>1.5</b>
PIMCO PARS	236,442	0.4
PIMCO GCOF	294,280	0.5
PIMCO Commodity Alpha Fund	343,624	0.6
Two Sigma Risk Premia Enhanced Fund, LP	191,663	0.3
Venor Capital Offshore, Ltd.	173,483	0.3
<b>Cash &amp; Cash Equivalents</b>	<b>3,501,842</b>	<b>6.2</b>
PSERS Cash Management	2,643,073	4.7

Private Equity, Private Real Estate, Private Infrastructure, and Private Commodities investments are valued on a one quarter lag.

## Asset Allocation

	Total Fund	
	(\$)	%
PSERS Derivatives Collateral	858,769	1.5
<b>Financing Composite</b>	<b>-5,447,665</b>	<b>-9.6</b>
PSERS Commodity Beta (Short/Financing)	-504,658	-0.9
PSERS Gold (Short/Financing)	-2,404,041	-4.2
PSERS Infrastructure Index (Short/Financing)	-635,971	-1.1
PSERS REIT Index (Short/Financing)	-308,557	-0.5
PSERS TIPS Swap (Short/Financing)	-1,594,438	-2.8

Private Equity, Private Real Estate, Private Infrastructure, and Private Commodities investments are valued on a one quarter lag.

## Schedule of Investable Assets

Quarter Ending	Beginning Market Value (\$000)	Contributions (\$000)	Withdrawals (\$000)	Net Cash Flow (\$000)	Net Gain/Loss (\$000)	Ending Market Value (\$000)	Net Return (%)
Jun-2013	-	-	-	-	-	49,017,040.37	-
Sep-2013	49,017,040.37	4,636,922.82	6,172,104.01	-1,535,181.19	1,390,116.47	48,871,975.66	2.9
Dec-2013	48,871,975.66	5,867,242.37	6,252,435.21	-385,192.84	1,652,703.45	50,139,486.27	3.4
Mar-2014	50,139,486.27	4,406,958.92	5,416,004.58	-1,009,045.66	1,799,515.72	50,929,956.34	3.6
Jun-2014	50,929,956.34	7,554,255.99	8,049,348.85	-495,092.86	2,126,107.48	52,560,970.96	4.2
Sep-2014	52,560,970.96	5,613,796.98	6,298,432.85	-684,635.87	305,918.49	52,182,253.57	0.6
Dec-2014	52,182,253.57	9,486,756.02	10,202,396.23	-715,640.21	73,391.93	51,540,005.29	0.1
Mar-2015	51,540,005.29	10,008,587.78	10,707,898.63	-699,310.86	1,465,859.22	52,306,553.66	2.9
Jun-2015	52,306,553.66	5,794,431.23	6,620,947.13	-826,515.90	-85,942.86	51,394,094.90	-0.2
Sep-2015	51,394,094.90	8,230,771.92	9,673,052.94	-1,442,281.03	-2,021,300.10	47,930,513.77	-4.0
Dec-2015	47,930,513.77	7,625,267.24	8,688,588.51	-1,063,321.26	11,691.83	46,878,884.34	0.0
Mar-2016	46,878,884.34	5,942,062.19	6,052,023.77	-109,961.58	695,895.38	47,464,818.14	1.5
Jun-2016	47,464,818.14	5,626,818.39	6,000,209.13	-373,390.75	1,880,401.97	48,971,829.36	4.0
Sep-2016	48,971,829.36	5,501,625.43	6,080,823.79	-579,198.36	1,805,042.28	50,197,673.28	3.7
Dec-2016	50,197,673.28	6,462,818.85	6,783,275.18	-320,456.32	613,829.27	50,491,046.22	1.2
Mar-2017	50,491,046.22	4,304,959.51	4,961,133.73	-656,174.21	1,627,829.91	51,462,701.92	3.3
Jun-2017	51,462,701.92	4,192,658.62	4,236,025.27	-43,366.65	847,229.68	52,266,564.95	1.7
Sep-2017	52,266,564.95	4,525,861.55	5,015,428.95	-489,567.40	1,651,228.38	53,428,225.93	3.2
Dec-2017	53,428,225.93	5,197,997.67	5,324,115.82	-126,118.15	1,904,074.35	55,206,182.13	3.6
Mar-2018	55,206,182.13	5,951,560.62	7,081,966.94	-1,130,406.32	77,423.55	54,153,199.36	0.1
Jun-2018	54,153,199.36	4,621,763.51	4,488,111.40	133,652.11	1,127,550.84	55,414,402.32	2.1
Sep-2018	55,414,402.32	6,964,171.95	7,649,828.39	-685,656.44	679,160.88	55,407,906.76	1.2
Dec-2018	55,407,906.76	8,699,410.82	9,051,212.77	-351,801.95	-1,576,844.00	53,479,260.81	-2.8
Mar-2019	53,479,260.81	9,769,056.91	10,186,205.00	-417,148.09	2,739,078.66	55,801,191.37	5.2
Jun-2019	55,801,191.37	6,309,755.30	6,335,026.46	-25,271.16	1,727,778.85	57,503,699.06	3.1
Sep-2019	57,503,699.06	4,809,549.80	5,188,164.40	-378,614.61	1,147,533.91	58,272,618.36	2.0
Dec-2019	58,272,618.36	5,377,362.32	5,574,152.72	-196,790.39	1,218,439.27	59,294,267.24	2.1
Mar-2020	59,294,267.24	10,751,481.95	11,326,297.21	-574,815.26	-4,809,099.45	53,910,352.53	-8.2
Jun-2020	53,910,352.53	6,787,676.92	7,168,951.42	-381,274.50	3,085,292.59	56,614,370.63	5.7
	49,017,040.37	181,021,583.59	196,584,161.30	-15,562,577.71	23,159,907.96	56,614,370.63	6.6

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### **Past performance is not necessarily indicative of future results.**

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