

Commonwealth of Pennsylvania State Employees' Retirement System Table of Contents As of March 31, 2015

Total Fund Composite

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Tab 3

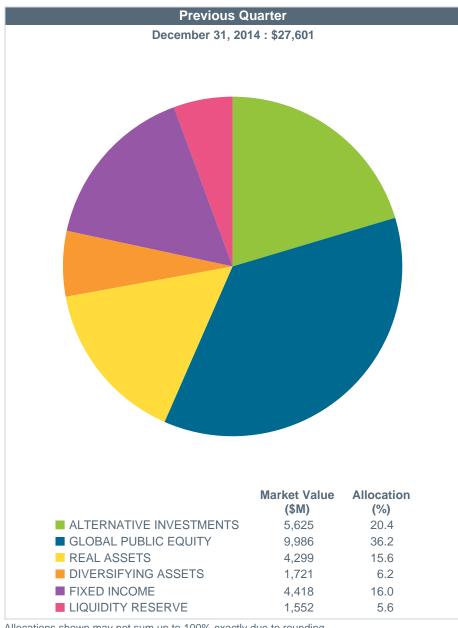
Addendum & Glossary

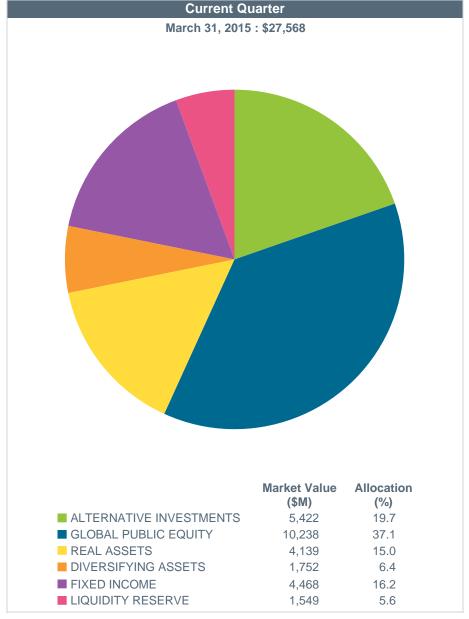
Tab 4



Total Fund Composite



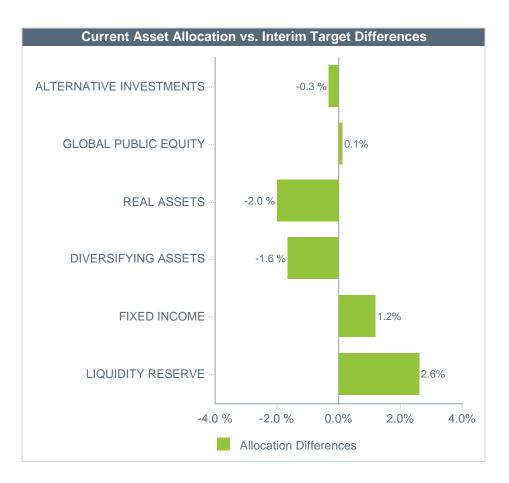




Allocations shown may not sum up to 100% exactly due to rounding.



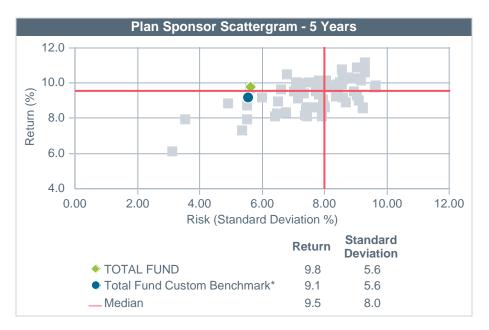
Current Asset A	llocation vs. Inter	im Target	
	Market Value (\$M)	Allocation (%)	Target (%)
ALTERNATIVE INVESTMENTS	5,422	19.7	20.0
GLOBAL PUBLIC EQUITY	10,238	37.1	37.0
REAL ASSETS	4,139	15.0	17.0
DIVERSIFYING ASSETS	1,752	6.4	8.0
FIXED INCOME	4,468	16.2	15.0
LIQUIDITY RESERVE	1,549	5.6	3.0
Total Fund	27,568	100.0	100.0

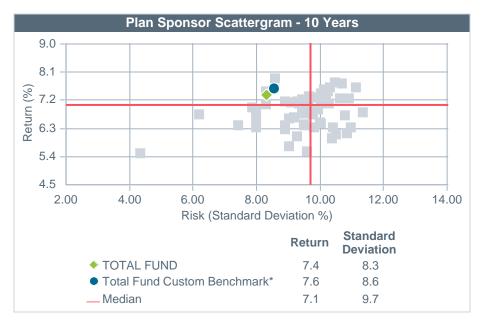


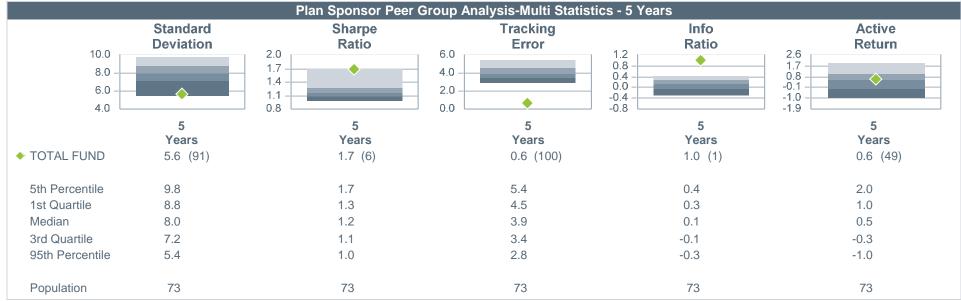
	Schedule of Investable Assets													
Periods Ending	Beginning Market Value (\$M)	Net Cash Flow (\$M)	Gain/Loss (\$M)	Ending Market Value (\$M)	% Return	Unit Value								
CYTD	27,601	-545	512	27,568	1.9	101.9								







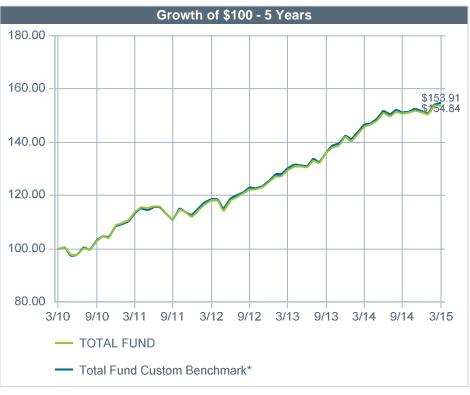




Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. *Please see Addendum for the complete history of the benchmark.



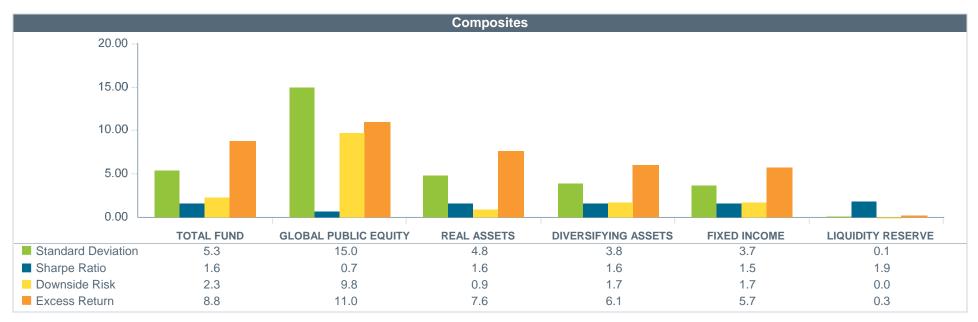
Plan Sponsor Peer Group Analysis - All Public Plans > \$1B-Total Fund													
	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years						
TOTAL FUND (Gross)	2.0 (83)	2.0 (83)	6.2 (69)	9.9 (42)	9.8 (42)	4.5 (100)	7.4 (20)						
5th Percentile	3.0	3.0	9.1	11.7	11.1	7.6	7.9						
1st Quartile	2.7	2.7	7.8	10.6	10.0	6.8	7.3						
Median	2.4	2.4	6.9	9.6	9.5	6.4	7.1						
3rd Quartile	2.1	2.1	6.0	8.8	8.7	5.8	6.5						
95th Percentile	1.8	1.8	4.8	7.6	8.0	5.1	6.0						
Population	84	84	80	75	73	73	69						

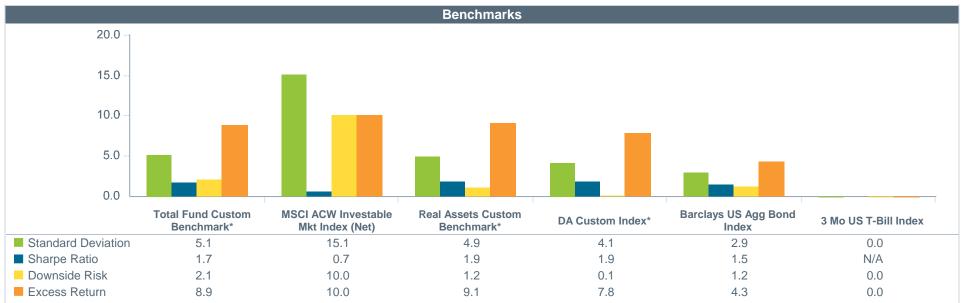




Performance shown is net of fees unless otherwise noted. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. *Please see Addendum for the complete history of the benchmark. Composites with less history than the specified time period will not appear in the chart. Quarter lagged composites are not shown in risk and return chart.



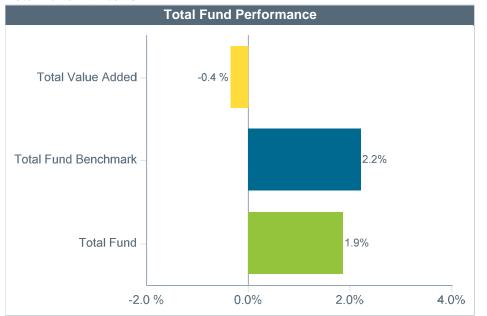


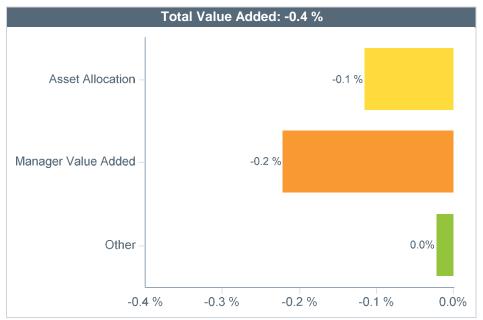


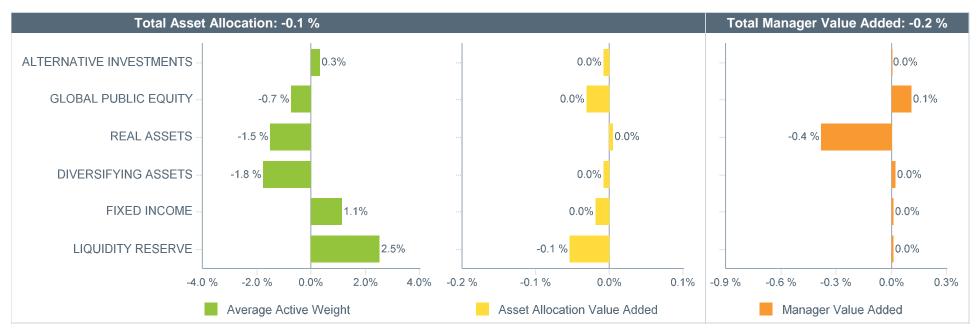
Statistics shown are based on net of fees returns. Calculation is based on quarterly periodicity. *Please see Addendum for the complete history of the benchmark. Excess Return statistic is calculated against the BofA ML 3 Mo US T-Bill Index. Quarter lagged composites are not shown in historical statistic charts.



Commonwealth of Pennsylvania State Employees' Retirement System TOTAL FUND vs. Total Fund Custom Benchmark* Total Fund Attribution



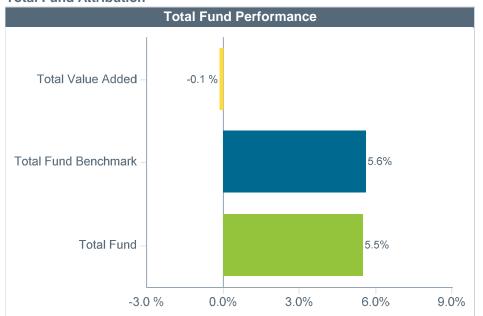


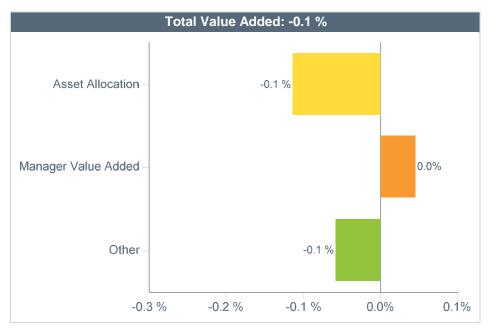


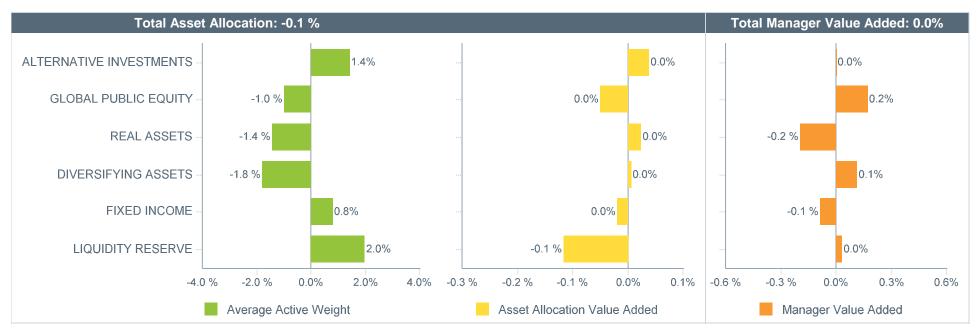
Performance shown is net of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution calculation. *Please see Addendum for the complete history of the benchmark.



Commonwealth of Pennsylvania State Employees' Retirement System TOTAL FUND vs. Total Fund Custom Benchmark* Total Fund Attribution







Performance shown is net of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution calculation. *Please see Addendum for the complete history of the benchmark.



Composites - NET OF FEES

	Allocati			Pe	erformand	e (%)					
	Market Value (\$M)	%	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
TOTAL FUND	27,568	100.0	1.9	1.9	5.5	9.1	9.0	3.7	6.5	9.9	01/01/1981
Total Fund Custom Benchmark*			2.2	2.2	5.6	9.3	9.1	5.5	7.6	N/A	
Total Fund Public Mkt Equiv Benchmark*			2.9	2.9	6.9	11.2	10.1	6.2	8.1	N/A	
ALTERNATIVE INVESTMENTS	5,422	19.7	2.4	2.4	9.1	12.2	12.5	6.6	11.6	11.1	01/01/1986
Burgiss All Private Equity Custom Index (Qtr Lag)			2.7	2.7	11.3	14.6	13.8	7.3	12.2	17.2	
R 3000 Index + 3% (Qtr Lag)			6.0	6.0	15.9	24.1	19.1	10.8	11.2	14.5	
GLOBAL PUBLIC EQUITY	10,238	37.1	2.9	2.9	5.6	11.9	10.3	4.1	6.2	6.6	01/01/2002
MSCI ACW Investable Mkt Index (Net)			2.6	2.6	5.1	11.0	9.3	4.9	6.7	7.1	
REAL ASSETS	4,139	15.0	-0.8	-0.8	2.1	6.0	7.8	0.3	6.2	7.5	01/01/1984
Real Assets Custom Benchmark*			1.6	1.6	3.3	7.8	9.4	1.0	5.3	6.5	
Consumer Price Index + 3%			1.3	1.3	2.9	4.0	4.7	4.5	5.1	5.8	
DIVERSIFYING ASSETS	1,752	6.4	3.0	3.0	7.0	8.5	6.3	4.4	N/A	3.9	07/01/2007
DA Custom Index*			2.6	2.6	5.1	11.3	8.1	6.7	6.2	6.6	
HFRI FOF Strategic Index			2.6	2.6	5.1	5.8	3.8	1.4	3.6	0.9	
FIXED INCOME	4,468	16.2	1.7	1.7	5.2	4.1	5.9	6.1	6.1	9.2	01/01/1981
Barclays US Agg Bond Index			1.6	1.6	5.7	3.1	4.4	4.7	4.9	8.3	
LIQUIDITY RESERVE	1,549	5.6	0.2	0.2	0.6	0.5	0.4	0.7	1.8	4.0	01/01/1987
BofA ML 3 Mo US T-Bill Index			0.0	0.0	0.0	0.1	0.1	0.3	1.5	3.7	



Commonwealth of Pennsylvania State Employees' Retirement System Calendar Years

Composites - NET OF FEES

	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005
TOTAL FUND	6.3	13.6	12.0	2.7	11.9	9.2	-28.7	17.2	16.4	14.5
Total Fund Custom Benchmark*	6.3	13.7	11.4	3.6	11.3	18.7	-25.4	14.3	16.2	13.6
Total Fund Public Mkt Equiv Benchmark*	7.6	15.5	15.7	0.9	11.3	18.7	-25.4	14.3	16.2	13.6
ALTERNATIVE INVESTMENTS	13.1	12.8	11.4	12.7	16.5	-7.8	-6.8	35.8	18.4	27.1
Burgiss All Private Equity Custom Index (Qtr Lag)	16.1	15.8	12.3	12.8	15.6	-9.8	-7.0	33.3	23.6	26.6
R 3000 Index + 3% (Qtr Lag)	21.3	25.2	34.1	3.6	14.3	-3.6	-19.2	20.0	13.5	18.0
GLOBAL PUBLIC EQUITY	3.3	26.3	17.6	-7.0	15.4	35.8	-48.6	12.8	21.6	11.7
MSCI ACW Investable Mkt Index (Net)	3.8	23.6	16.4	-7.9	14.3	36.4	-42.3	11.2	20.9	11.5
REAL ASSETS	6.3	8.0	8.6	6.0	7.4	-15.8	-13.0	24.8	18.4	29.9
Real Assets Custom Benchmark*	5.4	9.1	11.5	7.3	9.2	-19.8	-10.1	20.7	13.0	21.1
Consumer Price Index + 3%	3.8	4.5	4.8	6.1	4.5	5.8	3.1	7.2	5.6	6.5
DIVERSIFYING ASSETS	6.7	11.2	8.6	-1.8	6.3	13.7	-15.9	N/A	N/A	N/A
DA Custom Index*	4.1	22.2	6.6	3.3	3.4	3.7	3.8	5.6	5.1	3.1
HFRI FOF Strategic Index	3.1	10.5	5.8	-7.3	6.3	13.2	-25.2	12.8	11.8	10.3
FIXED INCOME	6.1	-2.2	10.0	6.2	11.7	31.9	-17.4	6.1	7.7	4.9
Barclays US Agg Bond Index	6.0	-2.0	4.2	7.8	6.5	5.9	5.2	7.0	4.3	2.4
LIQUIDITY RESERVE	0.5	0.3	0.4	0.2	0.3	0.5	3.4	5.1	4.9	2.9
BofA ML 3 Mo US T-Bill Index	0.0	0.1	0.1	0.1	0.1	0.2	2.1	5.0	4.8	3.1



ALTERNATIVE INVESTMENTS - NET OF FEES

	Allocation	on			Performance (%)								
	Market Value (\$M)	%	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	Since Incep.	Inception Date
ALTERNATIVE INVESTMENTS	5,422	19.7	2.4	2.4	9.1	12.2	12.5	6.6	11.6	13.1	12.8	11.1	01/01/1986
Burgiss All Private Equity Custom Index (Qtr Lag)			2.7	2.7	11.3	14.6	13.8	7.3	12.2	16.1	15.8	17.2	
R 3000 Index + 3% (Qtr Lag)			6.0	6.0	15.9	24.1	19.1	10.8	11.2	21.3	25.2	14.5	
Private Equity	3,222	11.7	2.8	2.8	11.6	14.1	13.6	7.3	13.7	15.4	14.3	13.2	04/01/1986
Burgiss Buyout Custom Index (Qtr Lag)			1.7	1.7	9.7	14.3	13.9	7.0	13.2	15.3	16.1	26.0	
Special Situations	841	3.1	1.3	1.3	4.5	11.9	12.3	7.3	12.8	9.0	16.8	13.2	01/01/1995
Burgiss Special Situations Custom Index (Qtr Lag)			0.2	0.2	6.3	11.2	10.5	6.0	9.7	11.0	12.9	11.7	
Venture Capital	1,358	4.9	2.1	2.1	5.7	7.5	9.6	4.0	5.2	9.9	6.1	6.4	01/01/1986
Burgiss Venture Capital Custom Index (Qtr Lag)			7.7	7.7	19.7	17.2	15.6	8.9	9.9	22.8	15.6	14.7	





GLOBAL PUBLIC EQUITY - NET OF FEES

	Allocation	on					I	Performan	ce (%)				
	Market Value (\$M)	%	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	Since Incep.	Inception Date
GLOBAL PUBLIC EQUITY MSCI ACW Investable Mkt Index (Net)	10,238	37.1	2.9 2.6	2.9 2.6	5.6 5.1	11.9 <i>11.0</i>	10.3 9.3	4.1 <i>4.9</i>	6.2 6.7	3.3 3.8	26.3 23.6	6.6 7.1	01/01/2002
Global Mandates MSCI World Index (Net)	665	2.4	1.9 2.3	1.9 2.3	6.8 6.0	11.1 <i>12.2</i>	10.2 <i>10.0</i>	7.1 5.0	N/A 6.4	3.9 <i>4.9</i>	22.3 26.7	6.9 4.6	11/01/2006
Walter Scott & Ptnrs Glbl Gr Eq (SA) MSCI World Index (Net)	665	2.4	1.9 2.3	1.9 2.3	6.8 <i>6.0</i>	11.2 12.2	9.9 10.0	7.8 5.0	N/A 6.4	3.9 <i>4.9</i>	22.3 26.7	7.8 5.0	10/01/2006
U.S. Equity R 3000 Index*	5,241	19.0	1.8 <i>1.8</i>	1.8 <i>1.8</i>	11.7 <i>12.4</i>	16.4 <i>16.4</i>	15.1 <i>14.7</i>	7.0 9.4	7.3 8.4	11.2 <i>12.6</i>	34.1 33.6	10.8 <i>11.0</i>	01/01/1981
U.S. Mid/Large Cap Equity R 1000 Index	4,487	16.3	1.4 <i>1.6</i>	1.4 <i>1.6</i>	12.3 <i>12.7</i>	16.6 <i>16.5</i>	15.3 <i>14.7</i>	7.2 9.3	7.8 8.3	12.7 <i>13.2</i>	33.8 33.1	9.4 9.5	01/01/1994
Cornerstone LC Growth (SA) R 1000 Growth Index	364	1.3	2.4 3.8	2.4 3.8	14.1 <i>16.1</i>	N/A 16.3	N/A 15.6	N/A 10.7	N/A 9.4	9.0 13.1	25.6 33.5	15.0 19.7	07/01/2012
Diamond Hill LC (SA) R 1000 Index	420	1.5	0.0 1.6	0.0 1.6	7.8 12.7	N/A 16.5	N/A 14.7	N/A 9.3	N/A 8.3	10.5 13.2	38.6 <i>33.1</i>	20.3 19.4	07/01/2012
Epoch LC Value (SA) R 1000 Value Index	399	1.4	0.5 -0.7	0.5 -0.7	13.8 9.3	N/A 16.4	N/A 13.8	N/A 7.7	N/A 7.2	13.9 <i>13.5</i>	34.6 32.5	18.9 <i>19.0</i>	07/01/2012
Iridian Asset Mgmt MCV (SA) R Mid Cap Index	413	1.5	1.9 <i>4.0</i>	1.9 <i>4.0</i>	11.3 <i>13.7</i>	21.6 18.1	19.8 <i>16.2</i>	13.9 11.2	12.7 10.0	14.1 13.2	43.2 34.8	14.8 11.8	03/01/1995
MCM Russell 1000 Index (SA) R 1000 Index	2,891	10.5	1.6 1.6	1.6 1.6	12.7 12.7	16.3 <i>16.5</i>	N/A 14.7	N/A 9.3	N/A 8.3	13.2 13.2	33.1 33.1	19.3 19.5	01/01/2012
U.S. Small Cap Equity R 2500 Index*	753	2.7	4.2 5.2	4.2 5.2	8.0 10.1	15.4 <i>17.1</i>	14.1 <i>15.5</i>	9.6 11.2	7.9 9.6	2.7 7.1	36.4 <i>36.8</i>	10.1 <i>11.1</i>	01/01/1994
Emerald Adv PA Sm Cap Core Eq (SA) R 2500 Index*	465	1.7	4.3 5.2	4.3 5.2	6.5 10.1	14.0 17.1	13.0 <i>15.5</i>	9.6 11.2	10.8 <i>9.6</i>	0.9 7.1	35.0 36.8	13.1 <i>10.0</i>	10/01/1994
Mellon Cap Mgmt PA Quant Eq (SA) R 2500 Index*	289	1.0	3.9 <i>5.2</i>	3.9 5.2	10.4 10.1	17.8 17.1	15.8 <i>15.5</i>	10.7 11.2	9.5 <i>9.6</i>	5.6 7.1	38.8 <i>36.8</i>	12.8 11.5	10/01/1994





Commonwealth of Pennsylvania State Employees' Retirement System Asset Allocation & Performance GLOBAL PUBLIC EQUITY - NET OF FEES

	Allocation	on	Performance (%)										
	Market Value (\$M)	%	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	Since Incep.	Inception Date
Non-U.S. Equity	4,333	15.7	4.3	4.3	-1.1	7.2	6.0	0.2	4.6	-5.1	18.3	6.6	11/01/1995
MSCI ACW Ex US IMI (Net)*			3.5	3.5	-1.3	6.5	5.1	1.4	5.8	-3.9	15.8	5.9	
Non-U.S. Developed Markets Equity	3,490	12.7	5.0	5.0	-0.8	9.2	7.6	1.1	4.7	-4.8	23.6	6.7	01/01/2002
MSCI ACW Ex US IMI (Net)			3.5	3.5	-1.3	6.5	5.0	1.5	5.7	-3.9	15.8	7.6	
Non-U.S. Dev Mid/Large Cap Equity	2,964	10.8	4.3	4.3	-0.8	9.1	7.4	0.0	3.9	-4.5	22.4	5.8	01/01/2002
MSCI World Ex US Index (Net)			3.8	3.8	-1.4	8.2	5.7	1.5	5.0	-4.3	21.0	6.5	
Artisan Int'l Growth Eq (SA)	446	1.6	3.8	3.8	5.8	12.9	11.3	5.3	8.6	-0.1	27.6	11.3	04/01/2003
MSCI ACW Ex US Index (Net)*			3.5	3.5	-1.0	6.4	4.8	0.7	4.7	-3.9	15.3	9.6	
MCM MSCI World Ex US Index (SA)	1,476	5.4	3.9	3.9	-1.2	8.6	N/A	N/A	N/A	-4.3	21.6	11.3	01/01/2012
MSCI World Ex US Index (Net)			3.8	3.8	-1.4	8.2	5.7	1.5	5.0	-4.3	21.0	10.9	
Morgan Stanley Inv Mgmt Int'l Eq (SA)	421	1.5	4.7	4.7	-1.8	8.6	7.0	3.5	5.6	-5.9	21.7	7.1	12/01/1999
MSCI EAFE Index (Net)*			4.9	4.9	-0.9	9.0	6.2	1.6	5.1	-4.9	22.8	3.7	
Templeton Int'l Eq (SA)	622	2.3	5.2	5.2	-3.5	8.3	6.4	2.0	5.3	-7.1	21.4	7.7	01/01/1995
MSCI ACW Ex US Index (Net)*			3.5	3.5	-1.0	6.4	4.8	0.7	4.7	-3.9	15.3	5.3	
Non-U.S. Dev Small Cap Equity	526	1.9	9.2	9.2	-0.9	9.8	8.8	5.5	7.7	-6.8	31.2	7.5	10/01/1993
MSCI Wrld Ex US Sm Cap Index (Net)			4.0	4.0	-4.8	8.5	7.6	3.5	5.9	-5.3	25.6	N/A	
Harris Assoc Int'l SCV (SA)	526	1.9	9.2	9.2	-0.9	9.8	9.5	8.4	9.1	-6.8	31.3	13.3	07/01/2003
MSCI Wrld Ex US Sm Cap Index (Net)			4.0	4.0	-4.8	8.5	7.6	3.5	5.9	-5.3	25.6	10.3	



GLOBAL PUBLIC EQUITY - NET OF FEES

	Allocatio	n					F	Performan	ce (%)				
	Market Value (\$M)	%	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	Since Incep.	Inception Date
Emerging Markets Equity	843	3.1	1.8	1.8	-2.1	-0.6	0.0	-2.9	4.2	-5.9	-1.1	7.8	01/01/2002
MSCI Emg Mkts Index (Net)			2.2	2.2	0.4	0.3	1.7	0.6	8.5	-2.2	-2.6	11.5	
Ashmore Emerging Small Cap Equity (SA)	123	0.4	4.0	4.0	-5.8	N/A	N/A	N/A	N/A	-10.9	N/A	-1.6	05/01/2013
MSCI Emg Mkts Small Cap Index (Net)			3.6	3.6	1.1	3.5	2.6	3.1	9.8	1.0	1.0	-0.3	
BlackRock Emg Mkts Index (CF)	146	0.5	2.2	2.2	0.3	0.1	1.1	N/A	N/A	-2.5	-2.7	6.2	07/01/2009
MSCI Emg Mkts Index (Net)			2.2	2.2	0.4	0.3	1.7	0.6	8.5	-2.2	-2.6	6.9	
Delaware Emerging Markets Equity (SA)	249	0.9	-1.3	-1.3	-5.7	N/A	N/A	N/A	N/A	-7.2	N/A	-1.5	05/01/2013
MSCI Emg Mkts Index (Net)			2.2	2.2	0.4	0.3	1.7	0.6	8.5	-2.2	-2.6	-0.9	
GlobeFlex Emerging Small Cap (SA)	85	0.3	5.8	5.8	5.6	N/A	N/A	N/A	N/A	3.1	N/A	9.1	08/01/2013
MSCI Emg Mkts Small Cap Index (Net)			3.6	3.6	1.1	3.5	2.6	3.1	9.8	1.0	1.0	5.3	
Martin Currie Emerging Markets Equity (SA)	240	0.9	2.3	2.3	-0.4	N/A	N/A	N/A	N/A	-6.8	N/A	-3.7	01/01/2014
MSCI Emg Mkts Index (Net)			2.2	2.2	0.4	0.3	1.7	0.6	8.5	-2.2	-2.6	0.0	
Transition Management - Equities													
Northern Trust Equity Transition (SA)	-	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/01/2012



Commonwealth of Pennsylvania State Employees' Retirement System Asset Allocation & Performance REAL ASSETS - NET OF FEES

	Alloca	ation			Performance (%)								
	Market Value (\$M)	%	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	Since Incep.	Inception Date
REAL ASSETS	4,139	15.0	-0.8	-0.8	2.1	6.0	7.8	0.3	6.2	6.3	8.0	7.5	01/01/1984
Real Assets Custom Benchmark*			1.6	1.6	3.3	7.8	9.4	1.0	5.3	5.4	9.1	6.5	
Consumer Price Index + 3%			1.3	1.3	2.9	4.0	4.7	4.5	5.1	3.8	4.5	5.8	
Private Real Assets	843	3.1	-1.7	-1.7	8.0	11.7	13.2	0.9	7.5	15.8	13.3	8.6	01/01/1984
Private Real Assets Custom Benchmark*			3.9	3.9	13.1	14.7	14.6	4.0	7.5	14.2	15.4	6.9	
Consumer Price Index + 3%			1.3	1.3	2.9	4.0	4.7	4.5	5.1	3.8	4.5	5.8	
Private Energy	190	0.7	-17.8	-17.8	-9.0	0.9	7.3	4.4	16.6	14.0	5.9	16.6	04/01/2005
R 3000 Index + 3% (Qtr Lag)			6.0	6.0	15.9	24.1	19.1	10.8	11.2	21.3	25.2	11.2	
Non-Core Real Estate	653	2.4	4.0	4.0	14.0	15.3	15.0	-0.7	5.5	16.4	15.5	7.9	01/01/1984
All-Open End Funds Index (Qtr Lag)			3.1	3.1	12.1	12.0	13.6	1.3	5.8	12.0	12.6	6.3	
Public Real Assets	3,296	12.0	-0.6	-0.6	0.4	4.3	6.2	-0.2	5.6	3.7	6.3	6.4	07/01/1986
Public Real Assets Custom Benchmark*			1.0	1.0	0.5	5.7	7.8	0.0	4.5	2.8	7.2	5.9	
Consumer Price Index + 3%			1.3	1.3	2.9	4.0	4.7	4.5	5.1	3.8	4.5	5.8	
Core Real Estate	1,862	6.8	0.2	0.2	7.2	8.7	9.0	-0.5	4.9	9.1	13.0	5.8	07/01/1986
Custom Core Index (Qtr Lag)			3.4	3.4	11.9	11.7	12.5	1.8	6.1	11.9	12.3	6.0	
REITs	353	1.3	8.8	8.8	17.1	16.0	12.6	6.1	8.4	8.4	12.0	11.2	04/01/1996
Custom Public Index (Qtr Lag)			7.4	7.4	15.2	16.3	12.5	3.8	6.8	7.0	12.4	10.7	
Commodities & Infrastructure	1,082	3.9	-4.4	-4.4	-13.2	-5.7	-0.4	-3.2	1.1	-5.1	-5.4	7.0	11/01/2001
Commodities & Infrastructure Custom Benchmark*			<i>-4.</i> 8	-4.8	-18.0	-6.1	-0.7	-5.3	-1.0	-10.2	-2.2	4.7	
BAAM Custom Commodities Fund LP	424	1.5	-7.2	-7.2	-22.0	-10.5	-3.0	-3.1	N/A	-11.0	-9.9	0.0	05/01/2007
BAAM Custom Index			-6.5	-6.5	-28.3	-11.7	-4.4	-7.8	N/A	-19.3	-6.1	-4.5	
Harvest Fund Advisors MLP	182	0.7	-2.4	-2.4	8.5	N/A	N/A	N/A	N/A	17.5	N/A	11.1	05/01/2013
S&P MLP Index (TR)			-3.1	-3.1	1.5	11.7	15.2	N/A	N/A	7.7	29.8	5.9	
Kayne Anderson MLP	164	0.6	-2.2	-2.2	2.3	N/A	N/A	N/A	N/A	8.4	N/A	5.8	05/01/2013
S&P MLP Index (TR)			-3.1	-3.1	1.5	11.7	15.2	N/A	N/A	7.7	29.8	5.9	
Wellington Inf Protection (CF)	312	1.1	-2.8	-2.8	-16.9	-6.8	-1.7	-4.7	2.9	-12.7	-4.4	3.5	01/01/2005
Wellington Dvf'd Infl Hedge Comp Index			-2.9	-2.9	-14.0	-4.2	0.6	-1.4	4.4	-8.2	-1.9	5.0	

Performance shown is net of fees. Allocations shown may not sum up to 100% exactly due to rounding. RVK endorses GIPS and calculates performance for composites and investment managers using different methodologies. *Please see Addendum for the complete history of the benchmark.



DIVERSIFYING ASSETS - NET OF FEES

	Allocatio												
	Market Value (\$M)	%	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	Since Incep.	Inception Date
DIVERSIFYING ASSETS HISTORY	1,752	6.3	3.0	3.0	7.0	8.5	6.3	4.4	5.1	6.7	11.2	5.3	01/01/2002
DIVERSIFYING ASSETS	1,752	6.3	3.0	3.0	7.0	8.5	6.3	4.4	N/A	6.7	11.2	3.9	07/01/2007
DA Custom Index*			2.6	2.6	5.1	11.3	8.1	6.7	6.2	4.1	22.2	6.6	
HFRI FOF Strategic Index			2.6	2.6	5.1	5.8	3.8	1.4	3.6	3.1	10.5	0.9	
Direct Hedge Funds	111	0.4	2.4	2.4	4.2	N/A	N/A	N/A	N/A	2.8	N/A	4.9	10/01/2013
Hoplite Partners, L.P.	23	0.1	3.4	3.4	6.4	N/A	N/A	N/A	N/A	4.2	N/A	8.2	10/01/2013
HFRI Eq Hedge (Tot) Index			2.1	2.1	2.8	6.1	4.7	3.3	4.8	1.8	14.3	5.8	
Luxor Capital Partners LP	18	0.1	0.0	0.0	-10.3	N/A	N/A	N/A	N/A	-9.8	N/A	-7.9	01/01/2014
HFRI ED: (Tot) Index			1.8	1.8	0.9	6.3	5.5	4.7	5.7	1.1	12.5	2.3	
MKP Opportunity Partners, L.P.	16	0.1	6.5	6.5	9.1	N/A	N/A	N/A	N/A	-2.2	N/A	3.4	01/01/2014
HFRI Macro (Tot) Index			3.3	3.3	9.5	2.5	2.4	2.4	4.6	5.6	-0.4	7.2	
Pine River Fund Ltd.	21	0.1	1.9	1.9	4.3	N/A	N/A	N/A	N/A	4.9	N/A	4.8	10/01/2013
HFRI Rel Value (Tot) Index			1.8	1.8	3.5	6.4	6.2	5.9	6.4	4.0	7.1	5.5	
Samlyn Onshore Fund LP	17	0.1	6.5	6.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13.1	07/01/2014
HFRI Eq Hedge (Tot) Index			2.1	2.1	2.8	6.1	4.7	3.3	4.8	1.8	14.3	0.6	
Stelliam Fund LP	17	0.1	-3.2	-3.2	6.3	N/A	N/A	N/A	N/A	13.9	N/A	8.7	02/01/2014
HFRI Eq Hedge (Tot) Index			2.1	2.1	2.8	6.1	4.7	3.3	4.8	1.8	14.3	4.2	



DIVERSIFYING ASSETS - NET OF FEES

	Allocatio	n						Performan	ce (%)				
	Market Value (\$M)	%	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	Since Incep.	Inception Date
Absolute Return	139	0.5	2.7	2.7	-1.7	2.7	2.8	1.9	N/A	-1.4	3.3	1.7	07/01/2007
3 Mo LIBOR Index + 3%*			0.8	0.8	3.2	3.3	3.3	3.4	3.8	3.2	3.3	3.6	
Arden Inst'l LP	27	0.1	7.0	7.0	16.6	9.8	7.2	4.3	N/A	12.9	6.2	4.4	10/01/2006
3 Mo LIBOR Index + 3%*			0.8	0.8	3.2	3.3	3.3	3.4	3.8	3.2	3.3	3.8	
BAAM Custom ARS Fund LP	43	0.2	-3.6	-3.6	-0.8	2.5	3.6	2.3	4.2	5.2	2.5	4.8	01/01/2002
3 Mo LIBOR Index + 3%*			0.8	0.8	3.2	3.3	3.3	3.4	3.8	3.2	3.3	3.3	
Mesirow Multi-Manager Fund III LP	33	0.1	7.2	7.2	7.7	10.6	8.0	5.4	6.3	4.1	14.3	6.7	10/01/2002
3 Mo LIBOR Index + 3%*			0.8	0.8	3.2	3.3	3.3	3.4	3.8	3.2	3.3	3.4	
MSAIP Inst'l LP	15	0.1	8.7	8.7	15.5	11.8	8.1	4.7	5.5	14.7	8.7	5.6	07/01/2002
3 Mo LIBOR Index + 3%*			0.8	0.8	3.2	3.3	3.3	3.4	3.8	3.2	3.3	3.3	
PAAMCO Newport Sequoia Fund LLC	13	0.0	7.1	7.1	-47.5	-23.6	-17.7	-13.2	-6.8	-51.0	-14.8	-4.1	07/01/2002
3 Mo LIBOR Index + 3%*			0.8	0.8	3.2	3.3	3.3	3.4	3.8	3.2	3.3	3.3	
Rock Creek Penn Quarter LP	7	0.0	-4.3	-4.3	-6.7	2.3	2.5	1.2	N/A	0.3	8.6	1.6	10/01/2006
3 Mo LIBOR Index + 3%*			0.8	0.8	3.2	3.3	3.3	3.4	3.8	3.2	3.3	3.8	
Hedged Strategies	1,502	5.5	3.1	3.1	8.4	9.6	N/A	N/A	N/A	8.1	13.2	9.6	04/01/2012
HFRI FOF Comp Index			2.5	2.5	5.3	5.4	3.5	1.4	3.2	3.4	9.0	5.4	
Arden Keystone Fund LP	151	0.5	3.4	3.4	6.9	N/A	N/A	N/A	N/A	5.4	N/A	9.1	05/01/2013
HFRI FOF Comp Index			2.5	2.5	5.3	5.4	3.5	1.4	3.2	3.4	9.0	5.5	
Blackstone Keystone Fund	1,026	3.7	3.2	3.2	9.8	N/A	N/A	N/A	N/A	9.5	15.7	13.6	07/01/2012
HFRI FOF Comp Index			2.5	2.5	5.3	5.4	3.5	1.4	3.2	3.4	9.0	6.8	
Entrust Keystone Fund	322	1.2	2.6	2.6	5.0	8.8	N/A	N/A	N/A	5.9	13.9	8.8	04/01/2012
HFRI FOF Comp Index			2.5	2.5	5.3	5.4	3.5	1.4	3.2	3.4	9.0	5.4	
Tiger Keystone Partners, L.P.	3	0.0	-0.8	-0.8	-1.4	1.3	N/A	N/A	N/A	0.2	4.6	1.3	04/01/2012
HFRI FOF Comp Index			2.5	2.5	5.3	5.4	3.5	1.4	3.2	3.4	9.0	5.4	



Commonwealth of Pennsylvania State Employees' Retirement System Asset Allocation & Performance FIXED INCOME - NET OF FEES

	Allocation	on						Performan	ce (%)				
	Market Value (\$M)	%	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	Since Incep.	Inception Date
FIXED INCOME	4,468	16.2	1.7	1.7	5.2	4.1	5.9	6.1	6.1	6.1	-2.2	9.2	01/01/1981
Barclays US Agg Bond Index			1.6	1.6	5.7	3.1	4.4	4.7	4.9	6.0	-2.0	8.3	
Core Plus Fixed Income	1,260	4.6	1.6	1.6	4.2	N/A	N/A	N/A	N/A	6.0	4.4	6.2	10/01/2012
Brandywine Global Opp (SA)	194	0.7	-0.6	-0.6	1.1	3.9	N/A	N/A	N/A	6.0	-3.7	5.6	02/01/2011
Citigroup Wrld Gov't Bond Index			-2.5	-2.5	-5.5	-1.6	1.4	1.3	3.1	-0.5	-4.0	0.2	
Pyramis Glbl Adv HY CMBS (SA)	310	1.1	3.4	3.4	10.0	13.8	15.8	10.9	7.9	10.4	10.7	9.7	04/01/1997
Barclays US CMBS Ex AAA Index			1.6	1.6	3.9	5.4	9.8	2.0	-0.7	3.9	1.4	N/A	
SEI Struc Cred: HY Bank Loans (CF)	238	0.9	-0.1	-0.1	3.3	9.3	13.5	N/A	N/A	6.2	6.0	15.5	05/01/2008
Citigroup High Yield Market Index			2.4	2.4	1.3	7.0	8.3	9.1	7.7	1.8	7.2	8.5	
Stone Harbor EMD (SA)	127	0.5	2.2	2.2	0.3	2.5	6.2	7.5	8.3	1.3	-9.8	8.3	04/01/2005
JPM Emg Mkt Bond Index			2.1	2.1	4.1	4.4	6.8	7.4	8.0	5.5	-6.6	8.0	
Stone Harbor Glbl HY (SA)	200	0.7	2.7	2.7	1.0	7.4	7.8	8.7	7.6	1.3	8.3	8.5	07/01/2000
Citigroup High Yield Market Index			2.4	2.4	1.3	7.0	8.3	9.1	7.7	1.8	7.2	7.6	
Waterfall Asset Mgmt ABS (SA)	176	0.6	1.5	1.5	5.6	9.5	10.9	N/A	N/A	6.4	9.6	10.9	03/01/2010
3 Mo LIBOR Index + 8%			2.0	2.0	8.3	8.3	8.3	8.7	10.0	8.3	8.3	8.3	
WR Huff HY Bond Fund (SA)	15	0.1	3.7	3.7	5.5	11.9	17.5	17.2	13.0	6.7	23.1	11.0	07/01/1986
Citigroup High Yield Market Index			2.4	2.4	1.3	7.0	8.3	9.1	7.7	1.8	7.2	8.5	

WR Huff HY Bond Fund (SA) is currently undergoing liquidation.



FIXED INCOME - NET OF FEES

	Allocatio	n					F	Performan	ce (%)				
	Market Value (\$M)	%	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	Since Incep.	Inception Date
Core Fixed Income	1,893	6.9	1.7	1.7	5.7	3.8	5.5	5.9	5.4	6.0	-2.1	5.5	01/01/2002
Barclays US Agg Bond Index			1.6	1.6	5.7	3.1	4.4	4.7	4.9	6.0	-2.0	5.1	
MacKay Shields Core Fixed Income (SA)	200	0.7	1.6	1.6	5.1	N/A	N/A	N/A	N/A	5.1	N/A	4.6	07/01/2013
Barclays US Agg Bond Index			1.6	1.6	5.7	3.1	4.4	4.7	4.9	6.0	-2.0	4.6	
Mellon Cap Mgmt Bond Index (SA)	1,154	4.2	1.6	1.6	5.8	2.9	4.3	4.5	4.8	6.0	-2.3	7.8	04/01/1984
Barclays US Agg Bond Index*			1.6	1.6	5.7	3.1	4.4	4.7	4.9	6.0	-2.0	8.1	
PIMCO Core Bond Fund (SA)	253	0.9	2.0	2.0	6.0	N/A	N/A	N/A	N/A	5.9	-2.8	2.2	01/01/2013
Barclays US Agg ex Trsy			1.6	1.6	5.9	3.5	4.7	5.1	5.2	6.5	-1.6	2.8	
Taplin, Canida & Habacht Corp FI (SA)	181	0.7	1.8	1.8	5.7	5.3	6.6	7.2	5.8	7.3	-1.2	6.5	12/01/2000
Barclays US Credit Index			2.2	2.2	6.7	4.9	6.2	6.5	5.8	7.5	-2.0	6.5	
UBS Core Bond (SA)	104	0.4	1.4	1.4	5.4	N/A	N/A	N/A	N/A	5.7	N/A	4.6	07/01/2013
Barclays US Agg Bond Index			1.6	1.6	5.7	3.1	4.4	4.7	4.9	6.0	-2.0	4.6	
Global TIPS	777	2.8	1.2	1.2	2.8	0.1	2.4	2.5	3.8	3.9	-8.1	3.6	02/01/2003
Barclays US Trsy: US TIPS Index			1.4	1.4	3.1	0.6	4.3	3.6	4.6	3.6	-8.6	5.0	
Brown Brothers TIPS (SA)	206	0.7	1.5	1.5	3.2	0.9	N/A	N/A	N/A	3.8	-8.4	0.5	02/01/2012
Barclays US Trsy: US TIPS Index			1.4	1.4	3.1	0.6	4.3	3.6	4.6	3.6	-8.6	0.1	
New Century Global TIPS (SA)	106	0.4	-0.5	-0.5	1.0	1.7	N/A	N/A	N/A	5.2	-4.9	1.5	02/01/2012
Barclays Wrld Gov Infl-Lnkd Index (Unhedged)			-1.1	-1.1	0.2	0.7	4.1	2.4	4.3	4.1	-4.8	0.7	
NISA Inv Adv TIPS (SA)	465	1.7	1.5	1.5	3.1	-0.6	2.1	2.2	N/A	3.6	-8.7	3.6	04/01/2007
Barclays US Trsy: US TIPS Index*			1.4	1.4	3.1	-0.6	2.0	2.2	N/A	3.6	-8.6	N/A	



FIXED INCOME - NET OF FEES

	Allocatio	Allocation			Performance (%)								
	Market Value (\$M)	%	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	Since Incep.	Inception Date
Nominal U.S. Treasuries	538	2.0	2.6	2.6	9.6	3.7	N/A	N/A	N/A	10.4	-7.5	3.1	09/01/2011
Barclays US Trsy Bellwethers: 10 Yr			2.6	2.6	9.9	3.7	6.5	5.1	5.6	10.7	-7.8	3.6	
PIMCO US Treasuries (SA)	270	1.0	2.6	2.6	9.4	3.7	N/A	N/A	N/A	10.1	-7.2	3.1	09/01/2011
Barclays US Trsy Bellwethers: 10 Yr			2.6	2.6	9.9	3.7	6.5	5.1	5.6	10.7	-7.8	3.6	
Wellington US Treasuries (SA)	269	1.0	2.6	2.6	9.9	3.8	N/A	N/A	N/A	10.7	-7.8	2.4	10/01/2011
Barclays US Trsy Bellwethers: 10 Yr			2.6	2.6	9.9	3.7	6.5	5.1	5.6	10.7	-7.8	2.9	
Transition Management - Fixed Income													
Northern Trust Fixed Income Transition (SA)	-	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12/01/2012



LIQUIDITY RESERVE - NET OF FEES

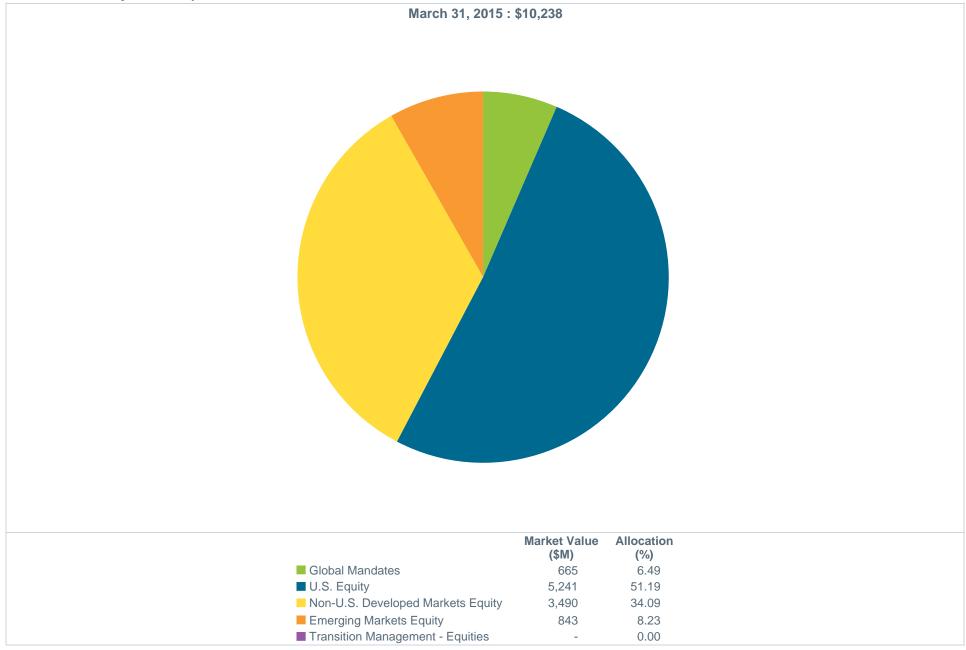
	Allocation				Performance (%)								
	Market Value (\$M)	%	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	Since Incep.	Inception Date
LIQUIDITY RESERVE	1,549	5.6	0.2	0.2	0.6	0.5	0.4	0.7	1.8	0.5	0.3	4.0	01/01/1987
Cash Equivalent	1,198	4.3	0.2	0.2	0.5	0.4	0.3	0.7	1.8	0.4	0.2	4.0	01/01/1987
BofA ML 3 Mo US T-Bill Index			0.0	0.0	0.0	0.1	0.1	0.3	1.5	0.0	0.1	3.7	
Cash Management (SA)	1,190	4.3	0.2	0.2	0.5	0.4	0.3	0.7	1.8	0.4	0.2	4.0	01/01/1987
BofA ML 3 Mo US T-Bill Index			0.0	0.0	0.0	0.1	0.1	0.3	1.5	0.0	0.1	3.7	
Overnight Cash (SA)	8	0.0	0.0	0.0	0.1	0.1	0.1	0.4	N/A	0.1	0.1	0.6	12/01/2007
BofA ML 3 Mo US T-Bill Index			0.0	0.0	0.0	0.1	0.1	0.3	1.5	0.0	0.1	0.4	
Short-Term Notes	351	1.3	0.5	0.5	1.0	N/A	N/A	N/A	N/A	0.8	N/A	0.8	04/01/2013
Barclays US Gov't/Credit: 1-3 Yr Bond Index			0.6	0.6	1.1	1.0	1.3	1.9	2.9	0.8	0.6	0.9	
PNC Short Duration (SA)	233	0.8	0.5	0.5	0.9	N/A	N/A	N/A	N/A	0.7	N/A	0.8	04/01/2013
Barclays US Gov't/Credit: 1-3 Yr Bond Index			0.6	0.6	1.1	1.0	1.3	1.9	2.9	0.8	0.6	0.9	
StoneRidge Short Duration (SA)	117	0.4	0.6	0.6	1.3	N/A	N/A	N/A	N/A	1.0	N/A	0.9	04/01/2013
Barclays US Gov't/Credit: 1-3 Yr Bond Index			0.6	0.6	1.1	1.0	1.3	1.9	2.9	0.8	0.6	0.9	



Sub-Composites



Asset Allocation by Sub-Composite



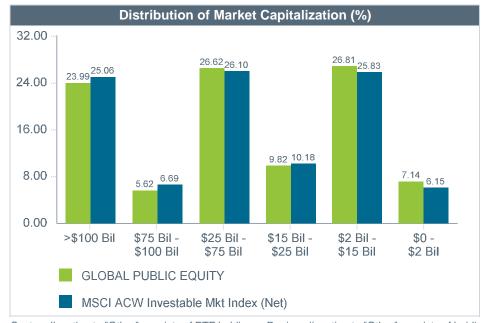
Allocations shown may not sum up to 100% exactly due to rounding.

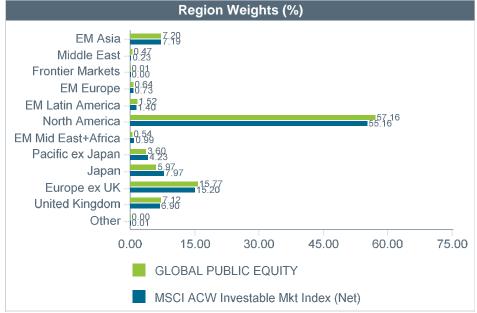


Commonwealth of Pennsylvania State Employees' Retirement System GLOBAL PUBLIC EQUITY vs. MSCI ACW Investable Mkt Index (Net) Portfolio Characteristics

Portfol	io Characteristics	
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	76,158	80,705
Median Mkt. Cap (\$M)	6,680	1,443
Price/Earnings Ratio	18.74	17.79
Price/Book Ratio	2.78	2.65
5 Yr. EPS Growth Rate (%)	13.10	13.20
Current Yield (%)	2.06	2.32
Beta (5 Years, Monthly)	0.98	1.00
Number of Securities	3,315	8,550



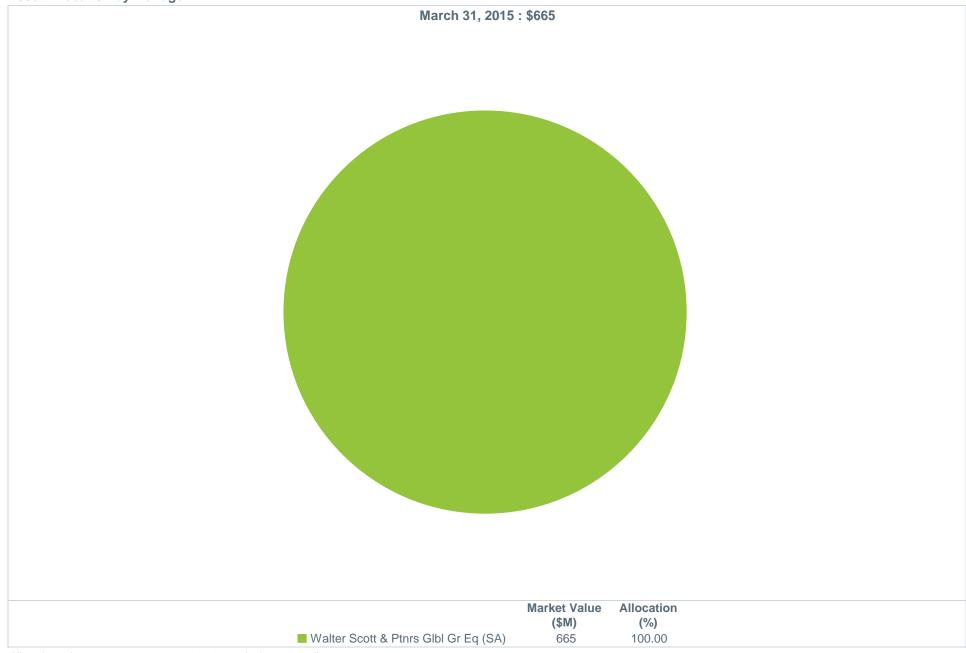




Sector allocation to "Other" consists of ETF holdings. Region allocation to "Other" consists of holdings domiciled in countries/regions that do not meet economic development, size, liquidity, or market accessibility criteria as defined by the MSCI region standards.



Asset Allocation by Manager



Allocations shown may not sum up to 100% exactly due to rounding.

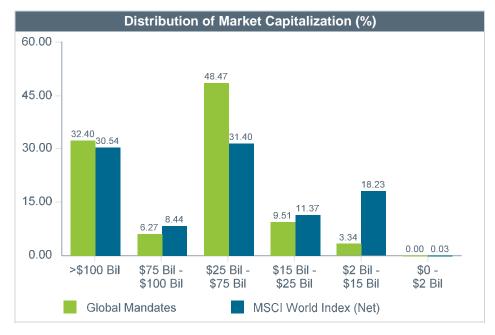


Commonwealth of Pennsylvania State Employees' Retirement System Global Mandates vs. MSCI World Index (Net)

Portfolio Characteristics

Top Ter	n Equity Ho	oldings		
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Novo Nordisk A/S	3.48	0.32	3.16	28.30
TJX Companies Inc (The)	3.19	0.14	3.05	2.40
Keyence Corp	3.09	0.07	3.02	22.09
MasterCard Inc	2.91	0.26	2.65	0.46
Industria De Diseno Textil Inditex SA	2.56	0.10	2.46	11.87
Precision Castparts Corp.	2.54	0.09	2.45	-12.81
Fanuc Corp	2.44	0.12	2.32	32.37
AIA Group Ltd	2.44	0.23	2.21	13.12
Colgate-Palmolive Co	2.41	0.19	2.22	0.74
Automatic Data Processing Inc.	2.30	0.12	2.18	3.32
% of Portfolio	27.36	1.64		

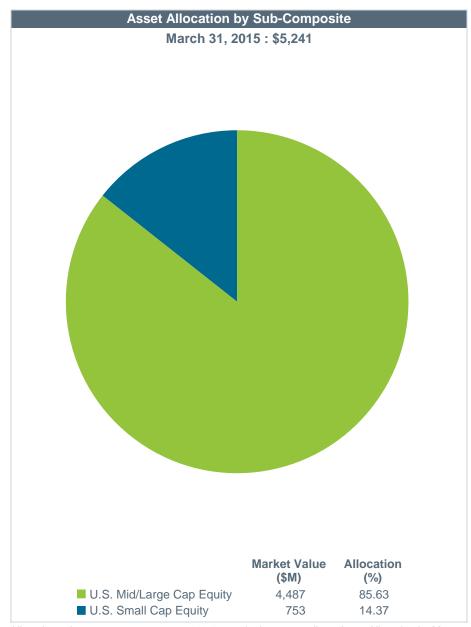
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	95,005	98,476
Median Mkt. Cap (\$M)	52,433	11,564
Price/Earnings Ratio	21.28	18.42
Price/Book Ratio	3.43	2.72
5 Yr. EPS Growth Rate (%)	12.08	12.95
Current Yield (%)	1.74	2.36
Beta (5 Years, Monthly)	0.91	1.00
Number of Securities	55	1,633

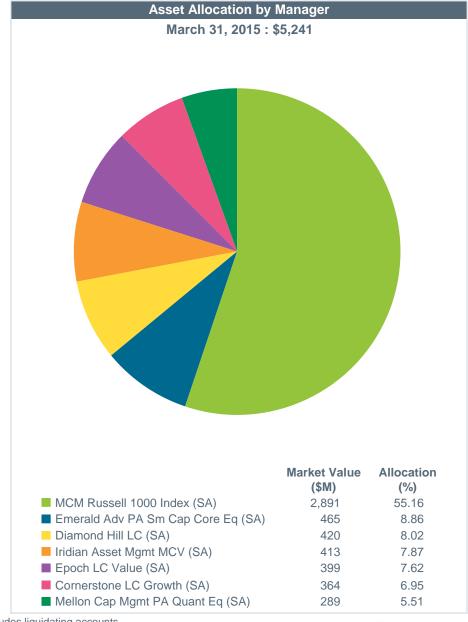






Asset Allocation by Sub-Composite & Manager





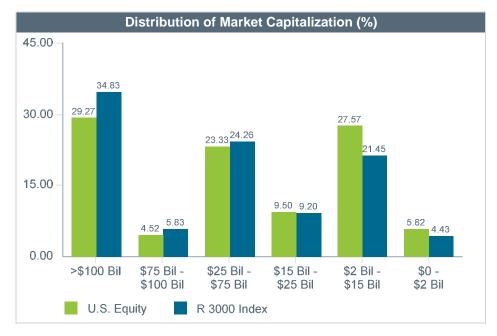
Allocations shown may not sum up to 100% exactly due to rounding. Asset Allocation by Manager excludes liquidating accounts.



Commonwealth of Pennsylvania State Employees' Retirement System U.S. Equity vs. R 3000 Index Portfolio Characteristics

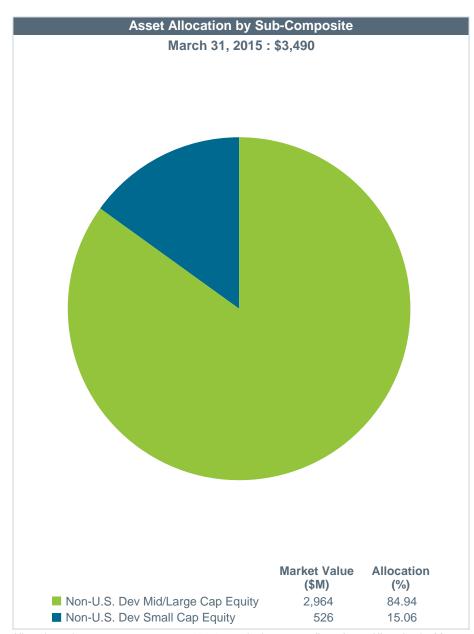
1	op Ten Equi	ty Holdings		
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Apple Inc	2.74	3.27	-0.53	13.17
Microsoft Corp	1.50	1.46	0.04	-11.85
Walt Disney Co (The)	1.21	0.79	0.42	11.36
Exxon Mobil Corp	1.07	1.59	-0.52	-7.37
JPMorgan Chase & Co	1.04	1.00	0.04	-2.58
Pfizer Inc	1.02	0.97	0.05	12.66
Procter & Gamble Co (The)	0.99	0.97	0.02	-9.41
Citigroup Inc	0.97	0.68	0.29	-4.77
Comcast Corp	0.93	0.64	0.29	-1.83
United Technologies Corp	0.92	0.47	0.45	2.46
% of Portfolio	12.39	11.84		

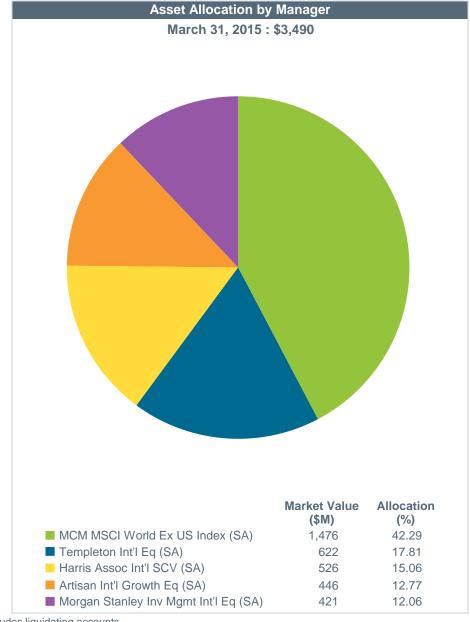
Portfolio Characteristics									
	Portfolio	Benchmark							
Wtd. Avg. Mkt. Cap (\$M)	92,820	109,857							
Median Mkt. Cap (\$M)	7,310	1,558							
Price/Earnings Ratio	19.87	19.46							
Price/Book Ratio	3.14	3.07							
5 Yr. EPS Growth Rate (%)	14.13	13.64							
Current Yield (%)	1.67	1.88							
Beta (5 Years, Monthly)	1.03	1.00							
Number of Securities	1,149	3,016							











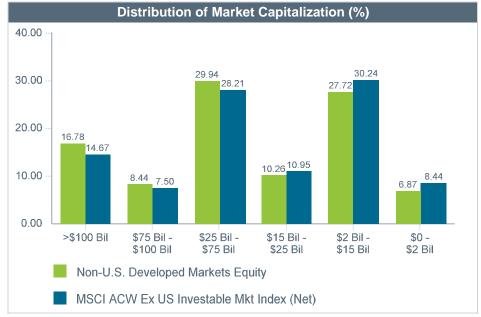
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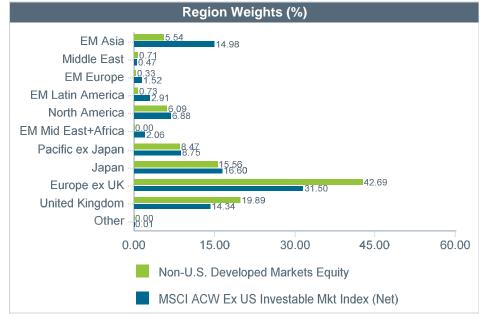


Commonwealth of Pennsylvania State Employees' Retirement System Non-U.S. Developed Markets Equity vs. MSCI ACW Ex US Investable Mkt Index (Net) Portfolio Characteristics

Тор	Ten Equity	/ Holdings		
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Toyota Motor Corp	1.75	0.92	0.83	12.42
Nestle SA, Cham Und Vevey	1.70	1.17	0.53	2.95
Roche Holding AG	1.67	0.93	0.74	4.82
Bayer AG	1.58	0.60	0.98	9.91
Novartis AG	1.50	1.09	0.41	9.45
Sanofi	1.15	0.57	0.58	7.83
AIA Group Ltd	0.94	0.36	0.58	13.12
Glaxosmithkline PLC	0.90	0.54	0.36	8.59
British American Tobacco PLC	0.83	0.46	0.37	-2.49
Julius Baer Gruppe AG	0.77	0.05	0.72	8.91
% of Portfolio	12.79	6.69		

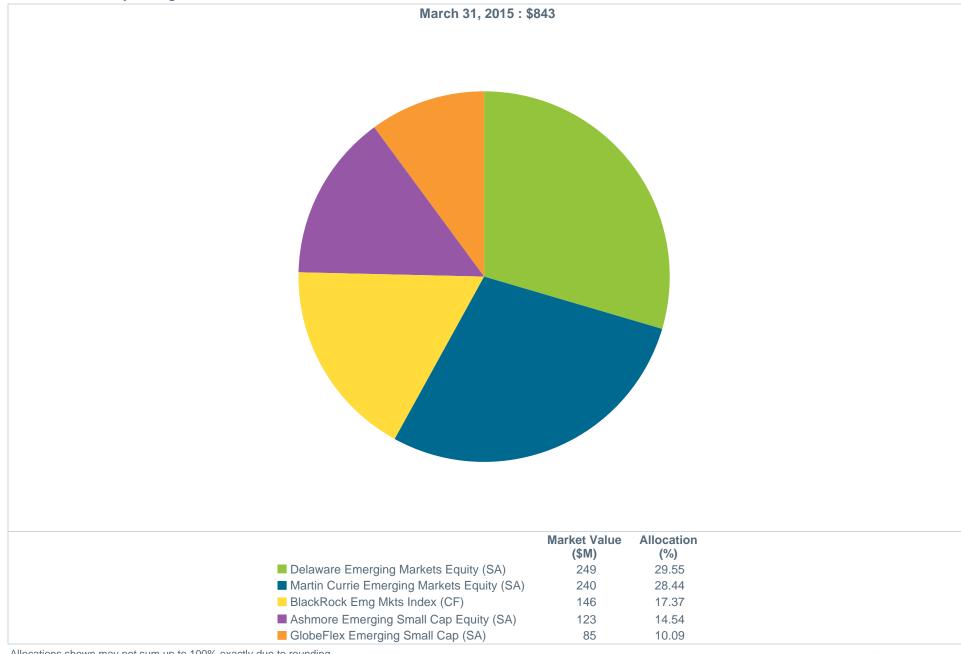
Portfo	lio Characteristics	
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	56,249	50,092
Median Mkt. Cap (\$M)	8,829	1,210
Price/Earnings Ratio	18.21	16.19
Price/Book Ratio	2.33	2.22
5 Yr. EPS Growth Rate (%)	10.48	12.18
Current Yield (%)	2.66	2.79
Beta (5 Years, Monthly)	0.98	1.00
Number of Securities	1,114	6,069





Allocation to "Other" consists of holdings domiciled in countries/regions that do not meet economic development, size, liquidity, or market accessibility criteria as defined by the MSCI region standards.





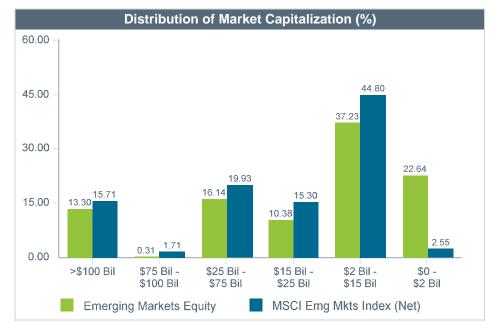


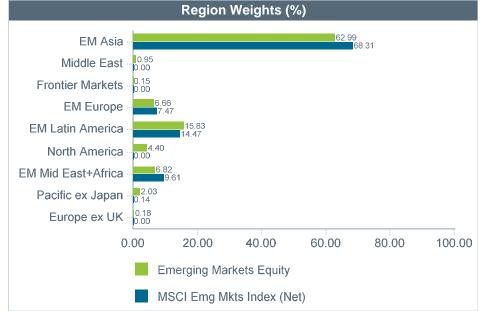


Commonwealth of Pennsylvania State Employees' Retirement System Emerging Markets Equity vs. MSCI Emg Mkts Index (Net) Portfolio Characteristics

Тор Те	n Equity H	loldings		
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Samsung Electronics Co Ltd	4.20	3.68	0.52	7.00
iShares MSCI India ETF	2.31	0.00	2.31	6.79
Tencent Holdings LTD	2.12	2.51	-0.39	30.88
Ind. & Com. Bank of China Ltd	1.95	1.40	0.55	1.09
Baidu Inc	1.62	0.00	1.62	-8.58
Taiwan Semiconductor Mfg	1.62	2.94	-1.32	4.28
Taiwan Semiconductor Mfg (ADR)	1.54	2.94	-1.40	4.92
Naspers Ltd	1.52	1.57	-0.05	17.77
SK Telecom Co Ltd	1.25	0.06	1.19	0.74
Cognizant Technology Solutions Corp	1.24	0.00	1.24	18.48
% of Portfolio	19.37	15.10		

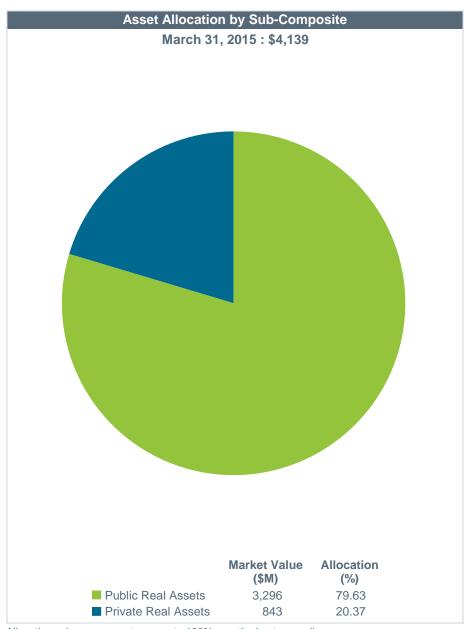
	Portfolio	Benchmark
Vtd. Avg. Mkt. Cap (\$M)	36,587	45,442
Median Mkt. Cap (\$M)	4,183	5,226
Price/Earnings Ratio	13.37	13.01
Price/Book Ratio	2.15	2.36
7 Yr. EPS Growth Rate (%)	18.21	14.27
Current Yield (%)	2.29	2.70
Beta (5 Years, Monthly)	1.00	1.00
Number of Securities	1,100	836

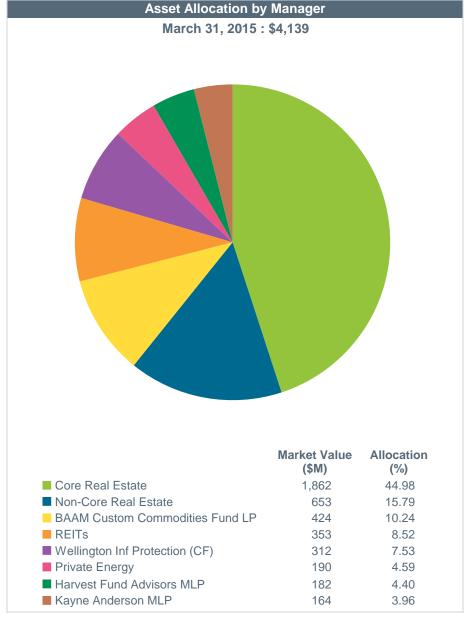






Asset Allocation by Sub-Composite & Manager

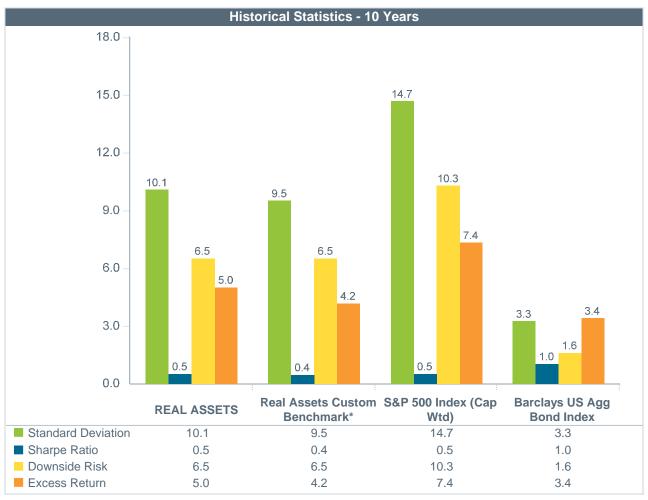




Allocations shown may not sum up to 100% exactly due to rounding.



Comparative Performance												
	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	2012	Since Incep.	Inception Date
REAL ASSETS	-0.8	-0.8	2.1	6.0	7.8	0.3	6.2	6.3	8.0	8.6	7.5	01/01/1984
Real Assets Custom Benchmark*	1.6	1.6	3.3	7.8	9.4	1.0	5.3	5.4	9.1	11.5	6.5	
Difference	-2.4	-2.4	-1.2	-1.8	-1.6	-0.7	0.9	0.9	-1.1	-2.9	1.0	



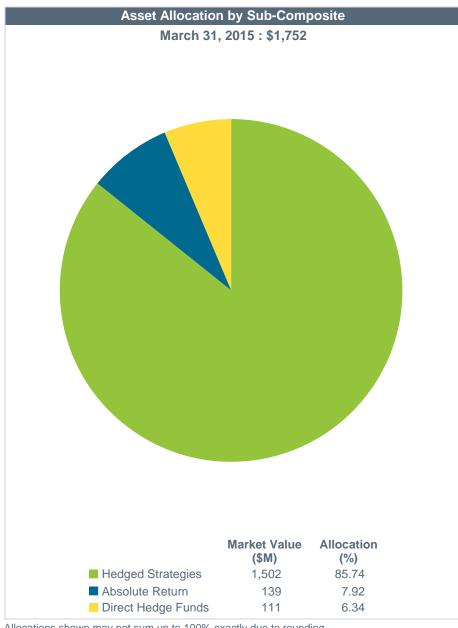
Actual Correlation - 10	Years
	Actual Correlation
Real Assets Custom Benchmark*	0.93
S&P 500 Index (Cap Wtd)	0.00
R 2000 Index	0.00
MSCI EAFE Index (Net)	0.07
MSCI Emg Mkts Index (Net)	0.06
Barclays US Agg Bond Index	-0.33
Barclays US Trsy: US TIPS Index	-0.25
Wilshire US REIT Index	-0.15
HFN FOF Multi-Strat Index (Net)	0.26
Bloomberg Cmdty Index (TR)	0.23
3 Mo US T-Bill Index	0.21
Consumer Price Index	0.27

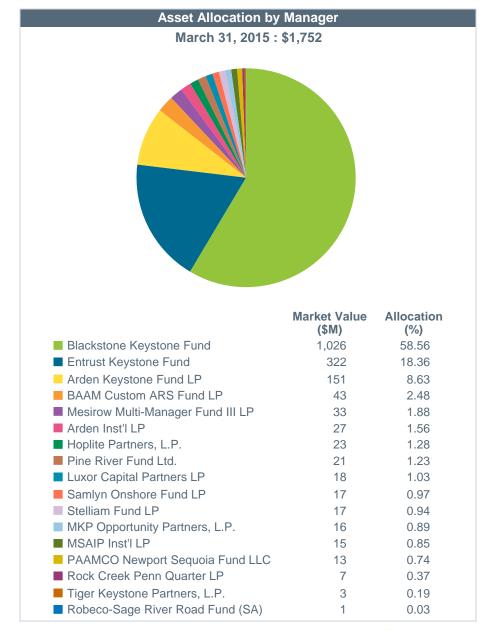
Performance shown is net of fees. Calculation is based on monthly periodicity.

*Please see Addendum for the complete history of the benchmark.

Excess Return statistic is calculated against the BofA ML 3 Mo US T-Bill Index.



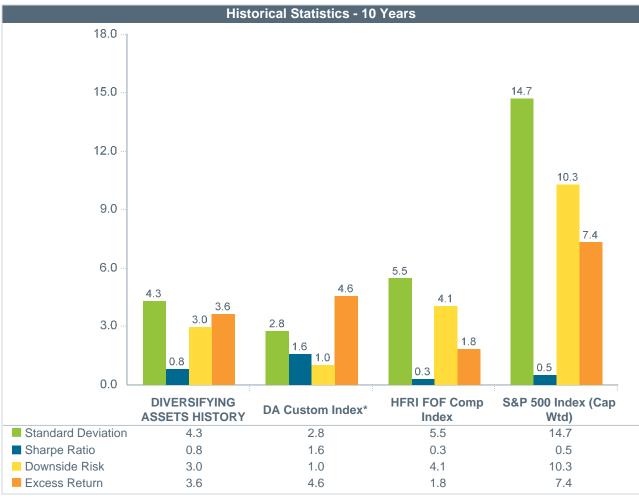




Allocations shown may not sum up to 100% exactly due to rounding.



Comparative Performance												
	QTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2014	2013	2012	Since Incep.	Inception Date
DIVERSIFYING ASSETS HISTORY	3.0	3.0	7.0	8.5	6.3	4.4	5.1	6.7	11.2	8.6	5.3	01/01/2002
DA Custom Index*	2.5	2.5	5.0	11.3	8.1	6.7	6.2	4.1	22.2	6.6	5.0	
Difference	0.5	0.5	2.0	-2.8	-1.8	-2.3	-1.1	2.6	-11.0	2.0	0.3	

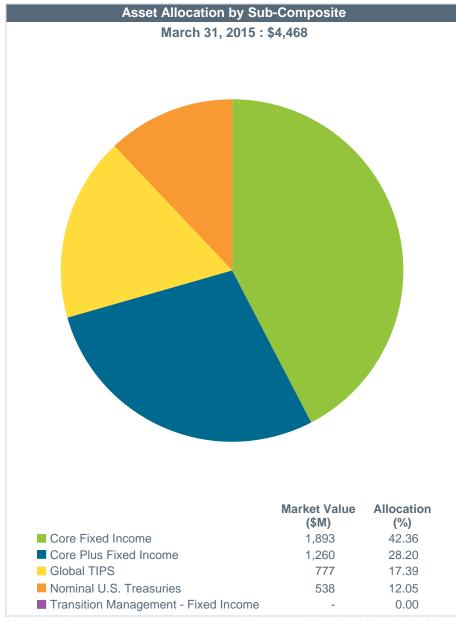


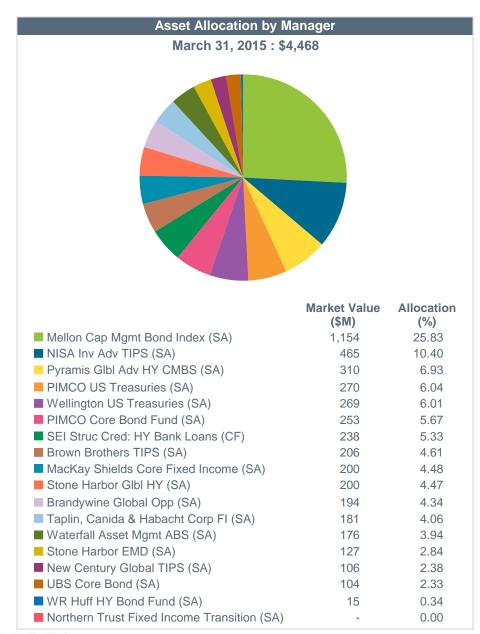
Actual Correlation - 10	Years
	Actual Correlation
DA Custom Index*	0.29
HFRI FOF Strategic Index	0.90
HFRI FOF Comp Index	0.94
S&P 500 Index (Cap Wtd)	0.59
R 2000 Index	0.54
MSCI EAFE Index (Net)	0.66
MSCI Emg Mkts Index (Net)	0.65
Barclays US Agg Bond Index	-0.11
Barclays US Trsy: US TIPS Index	0.12
Wilshire US REIT Index	0.27
HFN FOF Multi-Strat Index (Net)	0.93
Bloomberg Cmdty Index (TR)	0.59
3 Mo US T-Bill Index	-0.09
Consumer Price Index	0.28
The state of the s	

Performance shown is net of fees. Calculation is based on monthly periodicity. *Please see Addendum for the complete history of the benchmark. Excess Return statistic is calculated against the BofA ML 3 Mo US T-Bill Index. Performance for DIVERSIFYING ASSETS HISTORY is for reference purposes only.



Asset Allocation by Sub-Composite & Manager





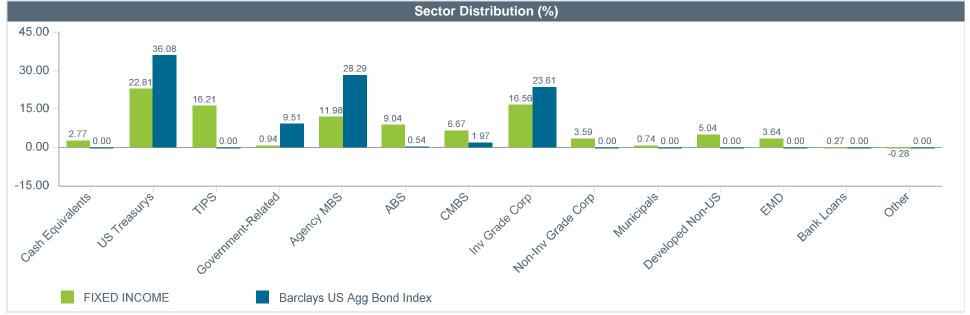
Allocations shown may not sum up to 100% exactly due to rounding. Asset Allocation by Manager excludes liquidating accounts.



Commonwealth of Pennsylvania State Employees' Retirement System FIXED INCOME vs. Barclays US Agg Bond Index

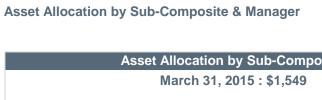
Portfolio Characteristics

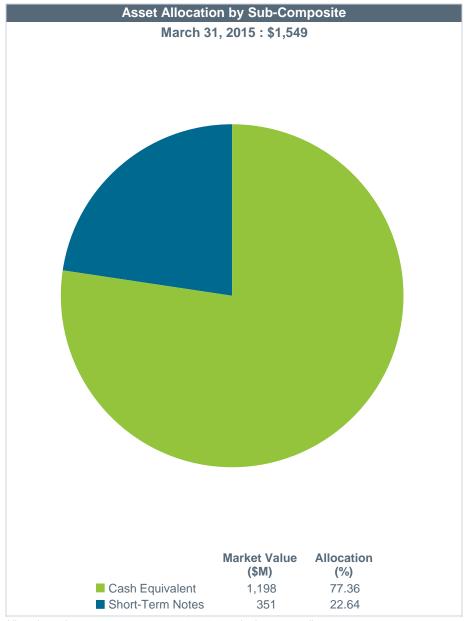
Portfolio Characteristics							
	Portfolio	Benchmark					
Effective Duration	6.34	5.45					
Avg. Maturity	8.67	7.72					
Avg. Quality	A	Aa1/Aa2					
Yield To Maturity (%)	3.12	2.07					

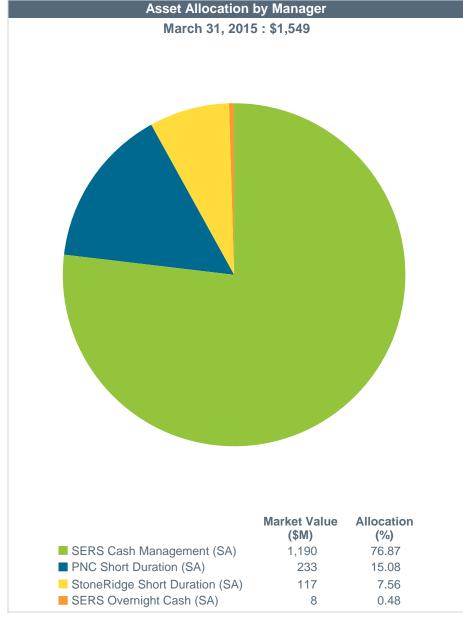


Allocation to "Other" consists of equity, warrants, accrued interest, unrealized G/L on forwards, high yield and other securitized products. Negative sector allocation reflects managers' use of derivatives. Data shown does not include liquidating accounts and fixed income transition accounts. Effective Duration, Average Quality, and Yield to Maturity statistics have been estimated using the manager's benchmark when statistics are not provided by the manager.









Allocations shown may not sum up to 100% exactly due to rounding.



Capital Markets Review

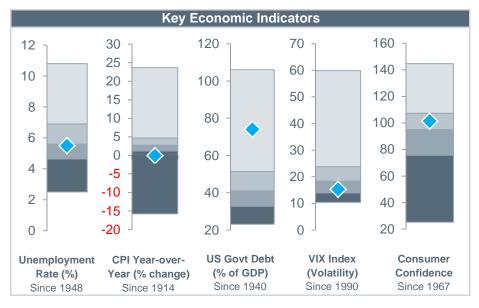


Capital Markets Review As of March 31, 2015

First Quarter Economic Environment

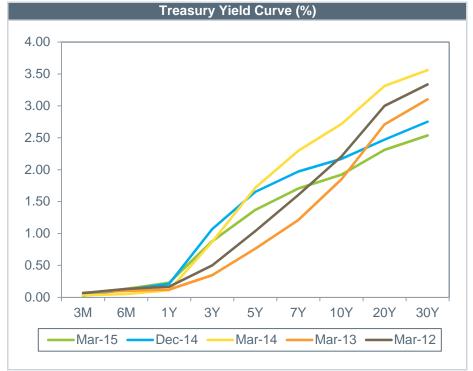
Key Economic Indicators

In a reversal of a multi-year trend, U.S. equity markets underperformed both developed international and emerging markets during the first quarter of 2015. The Federal Reserve, having exited its quantitative easing program in late 2014, continues to signal its willingness to raise interest rates at the earliest signs of inflation. In contrast, the European Central Bank and Bank of Japan continued to pursue aggressive monetary easing. The impact of these policies on current and expected interest rates led to a stronger U.S. dollar, which raises concerns regarding U.S. exports and the dollar value of earnings generated in foreign currencies. While the unemployment rate remained steady at 5.5% in March, additional non-farm payroll jobs came in well below expectations at just 126,000, despite downward revisions in January and February estimates. Globally, much attention was focused on oil prices, as OPEC producers refused to yield to pressure to cut production. In addition to price pressure from oversupply, weaker than expected global demand magnified downward pressure on oil prices.



Economic Indicators	Mar-15		Dec-14	Mar-14	Mar-12	20 Yr
Federal Funds Rate (%)	0.06 -	_	0.06	0.06	0.09	2.82
Breakeven Infl 1 Yr (%)	1.46		-0.21	1.79	2.18	N/A
Breakeven Infl 10 Yr (%)	1.78		1.68	2.14	2.34	N/A
CPI YoY (Headline) (%)	-0.10	▼	0.80	1.50	2.70	2.30
Unemployment Rate (%)	5.50	▼	5.60	6.60	8.20	6.00
Real GDP YoY (%)	3.00		2.40	1.90	2.60	2.50
PMI - Manufacturing	51.50	▼	55.10	54.40	53.30	52.00
USD Total Wtd Idx	92.06		85.13	76.67	72.75	86.32
WTI Crude Oil per Barrel (\$)	48	▼	53	102	103	54
Gold Spot per Oz (\$)	1,184	▼	1,185	1,284	1,668	713

Market Performance (%)	QTD	YTD	1 Yr	5 Yr	10 Yr
S&P 500 (Cap Wtd)	0.95	0.95	12.73	14.47	8.01
Russell 2000	4.32	4.32	8.21	14.56	8.82
MSCI EAFE (Net)	4.88	4.88	-0.92	6.16	4.95
MSCI EAFE SC (Net)	5.56	5.56	-2.92	8.80	6.17
MSCI Emg Mkts (Net)	2.24	2.24	0.44	1.75	8.48
Barclays US Agg Bond	1.61	1.61	5.72	4.41	4.93
BofA ML 3 Mo US T-Bill	0.00	0.00	0.03	0.09	1.49
NCREIF ODCE (Gross)	3.39	3.39	13.45	14.52	6.99
Wilshire US REIT	4.67	4.67	25.25	16.14	9.59
HFN FOF Multi-Strat	2.53	2.53	4.86	3.36	2.91
Bloomberg Cmdty (TR)	-5.94	-5.94	-27.04	-5.71	-3.56







Domestic Equity Review

As of March 31, 2015

First Quarter Review

Broad Market

The U.S. equity market provided volatile results, with negative returns in January and March, but a positive 1.8% for the quarter due to a strong February rally.

Market Cap

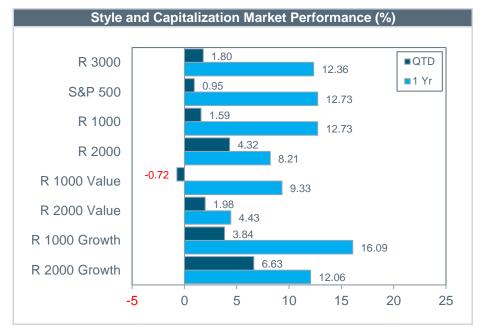
Small- and mid-cap stocks outpaced large-cap stocks during the quarter, largely due to the strengthening of the U.S. dollar, which provides a greater earnings drag on large-cap companies that tend to have a greater percentage of revenues derived from exports to non-U.S. regions.

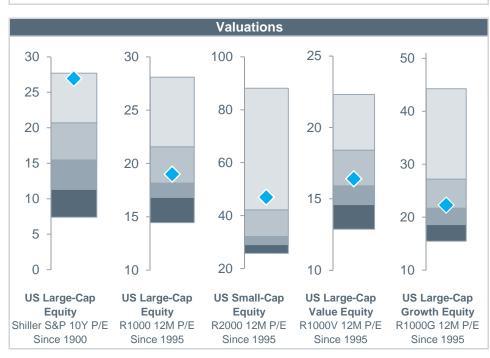
Style

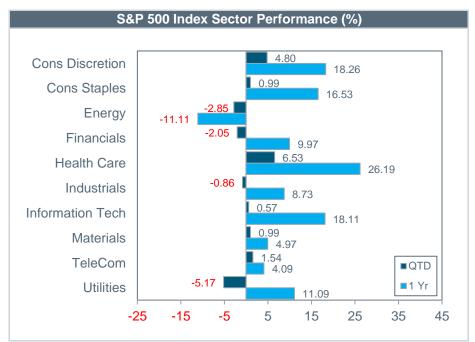
Growth stocks outperformed, with Russell 3000 Growth exceeding Russell 3000 Value by over 450 basis points during the first quarter.

Sector

Biotech stocks continued to outperform, posting the best performance in the S&P 500 each of the past five years. Utilities experienced a small reversal after a strong 2014, while REITs continued to appreciate. The Industrials and Energy sectors lagged to start the year, partially due to oil price volatility.







Valuation data courtesy of Bloomberg Professional Service and Robert J. Shiller, Irrational Exuberance, Second Edition. P/E metrics shown represent the 5th through 95th percentiles to minimize the effect of outliers.



International Equity Review As of March 31, 2015

First Quarter Review

Broad Market

International markets significantly outperformed the U.S. markets during the first quarter of 2015. The introduction of divergent monetary policies by central banks throughout the developed world exerted pressure on both asset prices and exchange rates.

Market Cap & Style

Similar to domestic equities, growth outperformed value and small-cap outperformed large-cap.

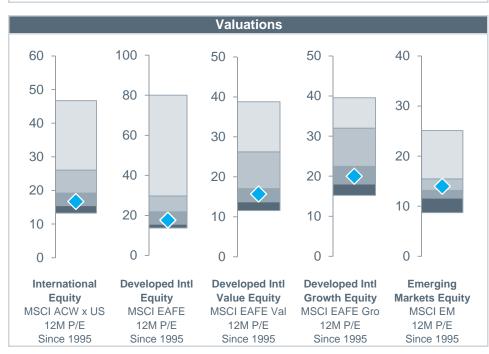
Developed Markets

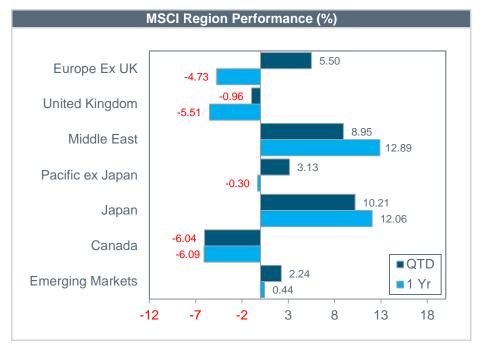
Deflation concerns regarding the potential exit of Greece from the EU continued to weigh on European markets; however, performance remained positive. The ECB initiated a €1 trillion bond purchase program.

Emerging Markets

Emerging markets lagged developed markets on a relative basis, but still produced positive returns. Russia was the top performer while Greece negatively impacted the performance of emerging markets after being demoted to emerging status.









P/E metrics shown represent the 5th through 95th percentiles to minimize the effect of outliers. All returns are shown net of foreign taxes on dividends.



Fixed Income Review As of March 31, 2015

First Quarter Review

Broad Market

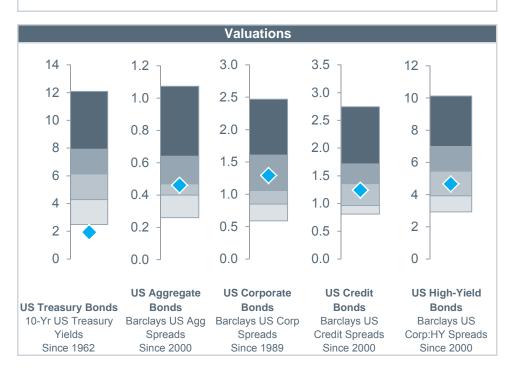
Fixed income markets were volatile in the first quarter, but by the end of March, treasury yields and credit spreads were only slightly changed from Q4. As rates fell in January, the Barclays Aggregate returned 2.1% for the month – the strongest one-month return since December 2008. However, a rebound in rates in February detracted from overall performance.

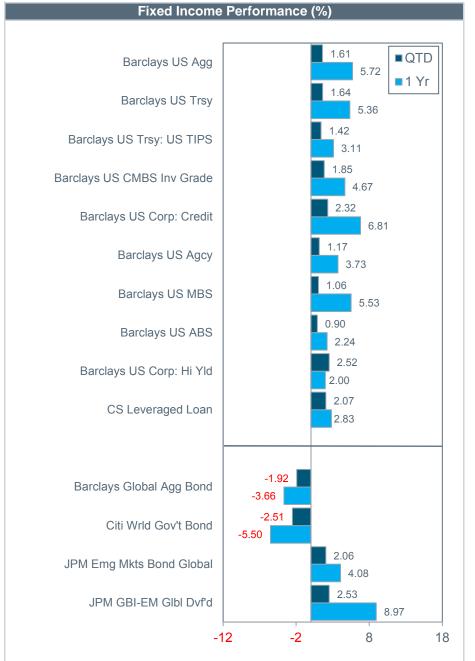
US Treasury Market

Despite heightened volatility, rates only dipped marginally in the middle and long end of the curve. Accordingly, long bonds continued to perform well; the Barclays Long U.S. Government/Credit Index gained 3.4% in the first quarter and 15.7% for the trailing one-year period.

Foreign Currency

With many countries implementing monetary policy changes, exchange rate volatility intensified. As such, currency exposure continues to play a prominent factor in the performance of global fixed income. Local currency emerging markets debt underperformed hard currency for the eighth consecutive quarter due to the relative strength of the U.S. dollar.







Valuations shown represent the 5th through 95th percentiles to minimize the effect of outliers.



Alternatives Review As of March 31, 2015

First Quarter Review - Absolute Return

General Market - Hedge Funds

Multi-strategy funds and Funds of Hedge Funds produced average returns in the 2-3% range, outperforming both global 60/40 portfolios as well as the S&P 500 Index for the first time since the fourth quarter of 2012. Equity-oriented hedge fund returns were buoyed by biases toward small- and midcap stocks, both which outperformed large-cap stocks. Systematic and Discretionary Macro strategies had the best returns, averaging 3-5%.

General Market - Global Tactical Asset Allocation (GTAA)

Despite many GTAA managers providing positive returns, undiversified U.S. 60/40 portfolios outperformed most in the first quarter. GTAA managers with heavy commodity, natural resource and energy-related exposure lagged, especially those that had tactically increased commodities positions after the decrease in energy prices in 4Q14. Valuation sensitive strategies favored emerging market exposures which continued to underperform most foreign developed markets. Risk parity strategies benefitted from declining yields and positive equity performance.

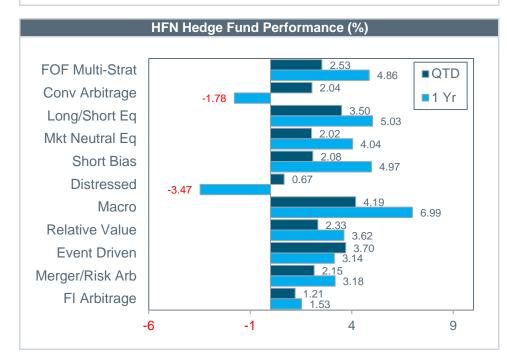
First Quarter Review - Real Assets

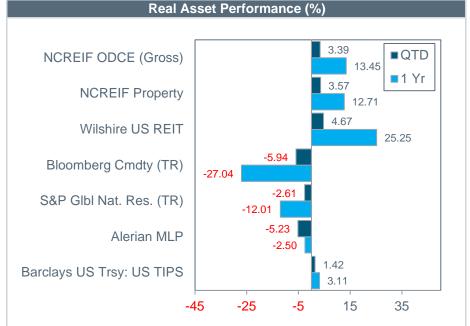
General Market - Diversified Inflation Strategies (DIS)

Inflation indicators and performance among DIS managers varied widely. Managers with larger agricultural and energy commodities exposures lagged as the agricultural and energy segments of the Bloomberg Commodity Index were down in Q1. Relatively few DIS managers allocated to precious metals, but those that did benefitted modestly as the commodity segment generated positive returns.

General Market - Real Estate

Transaction activity in the U.S. commercial real estate market remains robust. Healthy market conditions coincided with positive returns for the NCREIF-OCDE Index, representing continued, stable growth in the U.S. core real estate market. Investor interest in real estate remains strong as closed-end private real estate funds closed \$29 billion of capital during 1Q15, and hold \$231 billion in dry powder available for investment. Outside of the U.S., investors continue to focus on opportunities in Europe.







Annual Asset Class Performance As of March 31, 2015

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	YTD
Best	12.35	25.91	61.34	33.16	34.00	35.97	39.38	8.44	78.51	28.60	22.49	20.00	38.82	31.78	5.56
1	8.44	16.56	55.81	31.45	26.19	32.18	16.23	5.24	58.21	26.86	15.99	18.23	32.39	19.31	4.88
	7.89	14.81	47.25	25.55	21.39	26.34	15.97	2.06	46.78	22.04	13.56	17.59	29.30	13.69	4.67
	7.28	10.25	38.59	20.25	21.36	19.31	11.63	-2.35	31.78	18.88	9.24	17.32	22.78	12.50	4.32
	6.61	5.54	36.18	18.33	13.82	18.37	11.17	-10.01	28.60	16.83	7.84	16.34	13.94	5.97	3.39
	5.64	3.58	28.97	13.06	13.54	16.32	9.91	-20.47	27.18	16.36	4.98	16.00	9.10	4.89	3.36
	5.28	3.12	28.68	11.13	6.75	15.79	6.97	-26.16	26.46	15.12	2.11	15.81	7.44	3.64	2.53
	4.42	1.78	23.93	10.88	5.33	11.85	6.60	-33.79	18.91	15.06	0.10	10.94	1.86	3.03	2.52
	2.49	-1.41	11.93	9.15	4.91	9.85	5.49	-35.65	11.41	10.16	-4.18	8.82	0.07	2.45	2.24
	-2.62	-6.17	9.28	8.56	4.55	4.85	5.00	-37.00	9.72	7.75	-5.55	6.98	-2.02	0.04	1.61
	-11.89	-7.83	8.39	8.46	3.07	4.33	1.87	-39.20	5.93	6.54	-12.14	4.80	-2.60	-2.19	1.42
	-12.53	-15.94	5.87	6.79	2.84	2.71	1.45	-43.38	1.92	6.31	-13.32	4.21	-8.61	-4.90	0.95
+	-19.51	-20.48	4.10	4.34	2.74	2.07	-1.57	-47.01	0.21	4.77	-15.94	0.11	-8.83	-4.95	0.00
Worst	-21.44	-22.10	1.15	1.33	2.43	0.41	-17.55	-53.33	-29.76	0.13	-18.42	-1.06	-9.52	-17.01	-5.94
								Dlevi	Davida	NOD	FIF				
S&P 50 US Lar Cap	ge US Si	mall (Net)		(Net) - (N	ISCI EM let) - Int'l mg Mkts	Barclays US Agg Bond - Fl	Barclays US Corp: Hi Yield - F	Barclays US Trsy US TIPS FI	: US	OD(edit: (Gros	CE US F	REIT - Mu	Iti-Strat C	Bloombrg Cmdty (TR) Commod. (Mo T-Bill -



Addendum & Glossary



Commonwealth of Pennsylvania State Employees' Retirement System Addendum

Performance Related Comments

- Performance shown is net of fees except where noted.
- Allocations shown may not sum up to 100% exactly due to rounding.
- RVK, Inc. began monitoring the assets of the Commonwealth of Pennsylvania State Employees' Retirement System as of October 1, 2011. Prior historical data was provided by BNY Mellon and Rocaton. Subsequent restructuring of composites during Q4 2012 caused staff to direct BNY to recalculate select composites. This updated history was provided to RVK from inception through 12/31/2012 and cannot be independently verified by RVK due to the absence of accounting history related to newly created historical composites.
- Gross performance shown for the Total Fund Composite is calculated by BNY Mellon by adding the estimated annual expense ratio to the net return stream.
- Manager-reported performance may differ from custodian-reported performance for Diversifying Asset managers due to cash flows and valuation revisions.
- Due to the nature of the fund, the market value and performance for SEI Struc Cred: HY Bank Loans (CF) is lagged by one month.
- Beginning in Q2 2012, PAAMCO Newport Sequoia Fund LLC reports performance on a two month lag.
- Due to the nature of the asset classes, performance for Private Equity, Special Situations, Venture Capital, Private Energy, Non-Core Real Estate, Core Real Estate, and REITs are lagged by one quarter.
- RVK calculates performance beginning with the first full month following inception.
- Total Fund Composite performance shown for calendar years 1981-1984 was updated to be consistent with the 1983-1985 CAFR letters as directed by SERS staff. RVK received the updated calendar year performance for 1981-1984 directly from BNY Mellon. Each calendar year return was converted to twelve equal monthly returns so that the linked performance matches each total calendar year performance. It is important to note that the methodology used to derive these monthly returns may affect the accuracy of risk measures for periods including 1981-1984. The updated calendar year performance and all linked performance shown has not been independently reviewed by RVK.
- Liquidating accounts with market values under \$1 million are not shown in this report, but are included in the composites' market values and performance calculations.
- Fixed Income characteristics and allocations are provided by the managers.

Peer Group and Index Comments

- The All Public Plans > \$1 Billion-Total Fund plan sponsor universe includes public funds with total fund market values over \$1 billion in the Investment Metrics (IM) and BNY Mellon universe.
- See the following pages for the complete historical composition of indices marked with an asterisk (*).
- Indices show N/A for since inception returns when the fund contains more history than the corresponding benchmark.
- Effective October 1, 2013 the Wellington Diversified Inflation Hedges Composite Index consists of 25% MSCI World Energy >\$3B, 7% MSCI World Agriculture Products, Fertilizers & Agricultural Chemicals, and Forest Products, 3% MSCI World Construction & Farm Machinery, Packaged Food & Meats, and Paper Product, 5% MSCI World Metals & Mining > \$3B, 3% MSCI World Utilities, 1% MSCI World Oil & Gas, Storage & Transport, 0.5% MSCI World Telecommunications, 0.5% MSCI World Transportation Ex. Air Freight, Logistics, and Airlines, 3.5% MSCI ACW IMI Gold & Precious Metals, 1.5% S&P GSCI Precious Metals Total Return, 25% Bloomberg Commodity Index Total Return, 20% Barclays US TIPS 1-10 Year, and 5% Barclays Emerging Markets Tradable Government Inflation-Linked Bond.

Plan Sponsor Peer Groups - RVK utilizes the Mellon Analytical Solutions Trust Universe along with the Investment Metrics Plan Sponsor Universe. The combined Mellon Analytical Solutions Trust Universe and Investment Metrics Plan Sponsor Universe is used for comparison of total fund composite results and utilizes actual client returns compiled from consultant and custodial data. The Plan Sponsor Peer Group database includes performance and other quantitative data for over 1,273 plans which include corporate, endowment, foundation, public, and Taft Hartley plans, across 6 standard peer groups. Plan Sponsor Peer Groups are gross of fees.

Indices - All indices and related information are considered intellectual property and are licensed by each index provider. The indices may not be copied, used or distributed without the index provider's prior written approval. Index providers make no warranties and bear no liability with respect to the indices, any related data, their quality, accuracy, suitability and/or completeness.



Manage	r/Compo	site/Ben	chmark	Name

Total Fund Custom Benchmark* (Historical performance through 9/30/2011 was provided by Rocaton)

Benchmark Composition	<u>Since</u>
The custom index is calculated monthly using January 1st and December 31st actual plan weights of the	Inception
asset allocation structure.	

The custom index is calculated using the Strategic Target Weights.

8/1/2007

The custom index is calculated using 12/31/2009 actual plan weights and the 2010 target weights.

1/1/2010

The custom index is calculated using 2011 target weights, and consists of:

10/1/2011

24.5% SERS - Alternative Investment Composite Returns

3.9% MSCI World Index (Net)

9.6% R 3000 Index

16.5% MSCI ACW Ex US IMI (Net)

15.5% 3 Mo LIBOR Index + 3%

9.5% Townsend Stylized Benchmark

3% Commodities & Infrastructure Custom Benchmark*

17.5% Fixed Income Custom Index*

7/1/2012

21% SERS - Alternative Investment Composite Returns

37% MSCI ACW Investable Mkt Index (Net)

15% Real Assets Custom Benchmark*

12% Diversifying Assets Custom Benchmark*

17% Barclays US Agg Bond Index

3% BofA Merrill Lynch 3 Month US Treasury Bill Index

The custom index is calculated using interim target weights, and currently consists of:

4/1/2014

20% SERS - Alternative Investment Composite Returns

37% MSCI ACW Investable Mkt Index (Net)

17% Real Assets Custom Benchmark*

8% DA Custom Index*

15% Barclays US Agg Bond Index

3% BofA Merrill Lynch 3 Month US Treasury Bill Index



Commonwealth of Pennsylvania State Employees' Retirement System Custom Benchmark Composition

Manager/Composite/Benchmark Name

Total Fund Public Mkt Equiv Benchmark* (Historical performance through 9/30/2011 was provided by Rocaton)

Benchmark Composition

The custom index is calculated monthly using January 1st and December 31st actual plan weights of the asset allocation structure.

Since Inception

The custom index is calculated using the Strategic Target Weights.

8/1/2007

The custom index is calculated using 12/31/2009 actual plan weights and the 2010 target weights.

1/1/2010

The custom index is calculated using 2011 target weights, and consists of:

24.5% R 3000 Index + 3% (Qtr Lag)

3.9% MSCI World Index (Net)

9.6% R 3000 Index

16.5% MSCI ACW Ex US IMI (Net)

15.5% 3 Mo LIBOR Index + 3%

9.5% Consumer Price Index + 3%

3% Consumer Price Index + 3%

17.5% Fixed Income Custom Index*

10/1/2011

21% R 3000 Index + 3% (Qtr Lag)

37% MSCI ACW Investable Mkt Index (Net)

15% Consumer Price Index + 3%

12% Diversifying Assets Custom Benchmark*

17% Barclays US Agg Bond Index

3% BofA Merrill Lynch 3 Month US Treasury Bill Index

7/1/2012

The custom index is calculated using interim target weights, and currently consists of:

4/1/2014

20% R 3000 Index + 3% (Qtr Lag)

37% MSCI ACW Investable Mkt Index (Net)

17% Consumer Price Index + 3%

8% DA Custom Index*

15% Barclays US Agg Bond Index

3% BofA Merrill Lynch 3 Month US Treasury Bill Index

Burgiss Custom Indices

The custom indices utilize the Burgiss private equity database and are provided by StepStone. They are calculated using the time-weighted returns for a composite of funds based on their specified strategies and with the same vintage dates as SERS's funds. For all Burgiss benchmarks, Geographic Focus, Industry Focus, Fund Size, and Currency are all inclusive across countries, industries, funds, and currencies, respectively. Asset Class compositions are listed below for each index.

Burgiss All Private Equity Custom Index (Qtr Lag) Burgiss Buyout Custom Index (Qtr Lag) Asset Class: Corporate Finance, Generalist, Venture Capital

Asset Class: Corporate Finance/Buyout



Commonwealth of Pennsylvania State Employees' Retirement System Custom Benchmark Composition

Manager/Composite/Benchmark Name Burgiss Special Situations Custom Index (Qtr Lag) Burgiss Venture Capital Custom Index (Qtr Lag)	Benchmark Composition Asset Class: Corporate Finance/Distressed Securities, Corporate Finance/Mezzanine, Corporate Finance/Special Situations Asset Class: Venture Capital	Since
US Equity	100% Wilshire 5000 Value Wtd Total Index 100% R 3000 Index	Inception 1/1/1999
US Small Cap Equity	100% Wilshire 4500 Completion Index 100% R 2500 Index	Inception 1/1/1999
Mellon Cap Mgmt PA Quant Eq (SA)	100% Wilshire 4500 Completion Index 100% R 2500 Index	Inception 1/1/1999
Emerald Adv PA Growth Eq (SA)	100% R 2000 Index 100% R 2500 Index	Inception 1/1/2005
Non-US Equity (Historical performance through 9/30/2008 was provided by Rocaton)	80% SERS Custom Core International Index 20% FTSE Europe & Pacific Medium/Small Cap Index	Inception
	80% MSCI EAFE Index (Free) 20% FTSE Europe & Pacific Medium/Small Cap Index	2/1/2000
	80% MSCI EAFE Index (Free) 20% S&P World Equity EMI EPAC	7/1/2000
	68.56% MSCI EAFE Index (Free) 17.15% S&P World Equity EMI EPAC 14.29% MSCI EMF Index (Net) (Effective 1/1/2001)	11/1/2000
	85.71% S&P World Equity EMI EPAC 14.29% MSCI EMF Index (Net) (Effective 1/1/2001)	5/1/2001
	Month-End% S&P World Equity EMI EPAC Month-End% MSCI EMF Index (Net) (Effective 1/1/2001)	1/1/2002
	62.98% MSCI EAFE Index (Net) 15.74% S&P EMI EPAC (Gross)	10/1/2006
	21.28% MSCI Emerging Markets Index (Net) 64.8% MSCI EAFE Index (Net) 16.2% S&P EMI EPAC (Gross) 19.0% MSCI Emerging Markets Index (Net)	7/1/2007



Manager/Composite/Benchmark Name	Benchmark Composition 100% MSCI ACW Ex US IM Index (Net)	<u>Since</u> 10/1/2008
	65.5% MSCI EAFE IM Index (Net) 34.5% MSCI Emerging Markets Index (Net)	1/1/2010
	100% MSCI ACW Ex US IM Index (Net)	1/1/2011
Morgan Stanley Inv Mgmt Int'l Eq (SA)	100% MSCI EAFE Free Index (Net) 100% S&P Developed Ex US Large/Mid Cap TR Index (Gross) 100% MSCI EAFE Index (Net)	Inception 5/1/2000 10/1/2006
Templeton Int'l Eq (SA)	100% SERS Custom Core International Index 100% MSCI ACW Ex US Free Index (Gross) 100% S&P Global Ex US BM TR Index (Gross) 100% S&P Global Ex US Lg Mid Cap Index (Gross) 100% MSCI EAFE Index (Net) 100% MSCI ACW Ex US Index (Net)	Inception 2/1/2000 5/1/2001 1/1/2004 10/1/2006 1/1/2010
Artisan Int'l Growth Eq (SA)	100% S&P Global Ex US BM TR Index (Gross) 100% MSCI EAFE Index (Net) 100% MSCI ACW Ex US Index (Net)	Inception 10/1/2006 1/1/2010
Real Assets Custom Benchmark	Provided by Townsend The custom index is calculated monthly using beginning of the month asset class weights applied to each corresponding primary benchmark return.	Inception 1/1/2013
Private Real Assets Custom Benchmark	Provided by Townsend The custom index is calculated monthly using beginning of the month asset class weights applied to each corresponding primary benchmark return.	Inception 1/1/2013
Public Real Assets Custom Benchmark	Provided by Townsend	Inception
	The custom index is calculated monthly using beginning of the month asset class weights applied to each corresponding primary benchmark return.	1/1/2013
Custom Core Index (Qtr Lag)	Composed of NFI All Open-end Funds Index and NFI Timber Index in proportion to the Open-end funds plus IMAs and Timber of SERS' Core Portfolio.	
Custom Public Index (Qtr Lag)	Wilshire Real Estate Securities Index S&P Citigroup Global Index	Inception 1/1/2006
Commodities & Infrastructure Custom Benchmark	100% S&P GS Commodity Index	Inception
	71.4% S&P GS Commodity Index 28.6% Wellington Dvf'd Inf Hedge Comp Index	1/1/2005



Manager/Composite/Benchmark Name	Benchmark Composition 28.6% S&P GS Commodity Index	Since
	35.7% Wellington Dvf'd Inf Hedge Comp Index 35.7% BAAM Custom Index	5/1/2007
	50% Wellington Dvf'd Inf Hedge Comp Index 50% BAAM Custom Index	2/1/2010
	50% BAAM Custom Index 25% Wellington Dvf'd Inf Hedge Comp Index 25% S&P MLP Index (TR)	5/1/2013
DA Custom Index*	3 Mo LIBOR Index	Inception
	3 Mo LIBOR Index + 3%	1/1/2009
	65% R 3000 Index 35% 3 Mo LIBOR Index + 3%	7/1/2012
	100% HFRI FOF: Strategic Index	4/1/2014
Absolute Return Composite & Underlying Managers	3 Mo LIBOR Index	Inception
	3 Mo LIBOR Index + 3%	1/1/2009
NISA Inv Adv TIPS (SA)	The Custom TIPS Benchmark is a custom blend of TIPS determined monthly based on the following rules of inclusion and weighting: 1. Identify all TIPS with real durations between 4 and 6 years and find the average duration of all such	
	securities. 2. Identify all TIPS with real durations between 2 and 4 years and find the average duration of all such	
	securities. 3. Weight each of the buckets created in steps 1 and 2 such that the weighted average real duration of all included securities is 4.0 years.	
	If there are less than two securities identified in #1 above, the two TIPS with real durations immediately above 4 years will be identified. If there are less than two securities identified in #2 above, the two TIPS with real durations immediately below 4 years will be identified.	Inception
	100% Barclays US Trsy: US TIPS Index	1/1/2013
Mellon Cap Mgmt Bond Index (SA)	20% Barclays US Gov: Intermediate Term Bond Index 30% Barclays US Gov: Long Term Bond Index	
	25% Barclays US Corp: Investment Grade Index 25% Barclays US MBS Index	Inception



Alpha - A measure of the difference between a portfolio's actual returns and its expected performance, given its level of risk as measured by beta. It is a measure of the portfolio's historical performance not explained by movements of the market or a portfolio's non-systematic return.

Alpha Ratio - A measure of a portfolio's non-systematic return per unit of downside risk. It is measured by dividing the alpha of a portfolio by the downside risk. The non-systematic return is a measure of a portfolio's historical performance not explained by movements of the market.

Average Quality - Bond quality ratings are reported using the investment managers' and the index providers' preferred rating agency. Average Quality for managers unable to provide this statistic has been estimated using a credit quality distribution provided by the manager. There are two primary rating agencies in the US. Moody's assigns ratings on a system that employs up to four symbols (consisting of letters and numbers) such as, Aaa, Aa2, etc., with Aaa being the highest or safest rating. Standard & Poor's (S&P) employs a system that uses + and - along with letters such as AAA, AA+, etc. The two rating agencies' systems are summarized below:

S&P	Moody's	Explanation	S&P	Moody's	Explanation
Higher	Credit Qua	lity - Investment Grade	Lower	Credit Qual	ity – Below Investment Grade
AAA	Aaa	Prime/Highest credit quality	BB+	Ba1	Speculative/Low credit quality
AA+	Aa1	High credit quality	BB	Ba2	
AA	Aa2		BB-	Ba3	
AA-	Aa3		B+	B1	Highly speculative
A+	A1	Upper-medium credit quality	В	B2	
Α	A2		B-	B3	
A-	A3		CCC+	Caa1	Substantial credit/default risk
BBB+	Baa1	Lower-medium credit quality	CCC	Caa2	Extremely speculative
BBB	Baa2		CCC-	Caa3	
BBB-	Baa3		CC	Ca	Vulnerable to default
			С	Ca	
			D	С	In default

Beta - A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of a portfolio's non-diversifiable or systematic risk.

Buy and Hold Attribution - At the beginning of the time period under analysis, the manager and benchmark portfolios are broken down into segments (i.e., styles, sectors, countries, and regions) based on the desired type of attribution. The formula assumes zero turn-over to the manager and benchmark portfolios throughout the period and calculates the segment returns ("buy and hold returns") to arrive at performance attribution. Due to portfolio turnover, buy and hold attribution may not accurately represent quarterly performance relative to the benchmark. Country, region, sector, and style allocations are as of the date one quarter prior to the reporting date, and the returns shown are for those segments throughout the quarter reported. Due to disclosure guidelines set by each investment manager, equity characteristics shown are as of the most recent date available. The following is the methodology for segment classification:

Sector - Attribution is calculated using the Global Industry Classification Standard (GICS) which is a detailed and comprehensive structure for sector and industry analysis. Stocks are classified by their primary sector, as defined by S&P Capital IQ data.

Country/Region - Attribution is calculated using the Morgan Stanley Capital International (MSCI) region standards. Stocks are classified by their domicile country/region, as defined by S&P Capital IQ data.

Style - Stocks are classified into the following style boxes: large/mid/small vs. growth/neutral/value. Stocks are classified along large/mid/small categories at the time of the Russell index rebalancing, using the index market cap boundaries as cutoff points. Stocks are classified along growth/neutral/value categories at the time of the Russell index rebalancing, using the price/book ratio as supplied by S&P Capital IQ. Stocks in the Russell 3000 Index portfolio are sorted by price/book ratio; names with the highest price/book ratio that make up 1/3 of the total market capitalization are assigned to the growth category, names that make up the subsequent 1/3 of the total market capitalization are assigned to the value category.

Portfolio Characteristics and Buy and Hold Attribution reports utilize product-specific data for all mutual funds and commingled funds.



Capital Markets Review -

Breakeven Inflation - Measures the expected inflation rate at each stated maturity by taking the difference between the real yield of the inflation-linked maturity curve and the yield of the closest nominal Treasury maturity.

Consumer Confidence - Measures domestic consumer confidence as defined by the degree of optimism on the state of the economy that consumers express through saving and spending. Consumer Price Index (CPI) - Measures the change in the price level of consumer goods and services.

Option-Adjusted Spread - Measures the flat spread of an index or bond to the Treasury yield curve after removing the effect of any embedded options.

Purchasing Managers Index (PMI) - Measures economic activity by surveying purchasing managers on a monthly basis as to whether business conditions have improved, worsened, or stayed the same.

US Dollar Total Weighted Index - Measures the value of the US Dollar relative to a basket of other world currencies. It is calculated as the weighted geometric mean of the dollar's value versus the EUR, GBP, CAD, SEK, CHF, and JPY.

VIX - Measures the implied volatility of S&P 500 Index options by looking at the market's expectation of the S&P 500 Index volatility over the next 30 day period. Commonly referred to as the "fear index" or the "fear gauge."

Consistency - The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. The higher the consistency figure, the more value a manager has contributed to the product's performance.

Convexity - A measure of the shape of the curve that describes the relationship between bond prices and bond yields.

Correlation - A statistical measure of the relationship between asset class returns. A value of 1.00 is a perfect correlation; that is, the asset classes always move in the same direction. A value of -1.00 indicates a perfect negative correlation, in which the asset classes always move in opposite directions of each other. A value of 0 indicates there is no relationship between the direction of returns of the two asset classes. Correlation calculations only consider the direction of changes relative to two variables and not the magnitude of those changes.

Coupon Rate - The percentage rate of interest paid on a bond or fixed income security; it is typically paid twice per year.

Current Yield - The annual income of a security divided by the security's current price.

Down Market Capture - Down market by definition is negative benchmark return and down market capture represents the ratio in % terms of the average portfolios return over the benchmark during the down market period. The lower the value of the down market capture the better the product's performance.

Downside Risk - A measure similar to standard deviation, but focuses only on the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. The higher the factor, the riskier the product.

Earnings Per Share - It is backward looking, calculated using the one year current EPS divided by the one year EPS five years ago.

Effective Duration - The weighted average duration of all the bonds in a given portfolio, weighted by their dollar values.

Excess Return vs. Market - Average of the monthly arithmetic difference between the manager's return and the benchmark return over a specified time period, shown on an annualized basis.

Excess Return vs. Risk Free - Average of the monthly arithmetic difference between the manager's return and the risk-free return (i.e., BofA ML 3 Mo US T-Bill Index unless specified otherwise) over a specified time period, shown on an annualized basis.

Excess Risk - A measure of the standard deviation of a portfolio's performance relative to the risk free return.

Expense Ratios - Morningstar is the source for mutual fund expense ratios.

Gain/Loss - The net increase or decrease in the market value of a portfolio excluding its Net Cash Flow for a given period.

Indices - All indices and related information are considered intellectual property and are licensed by each index provider. The indices may not be copied, used or distributed without the index provider's prior written approval. Index providers make no warranties and bear no liability with respect to the indices, any related data, their quality, accuracy, suitability and/or completeness.

Information Ratio - Measured by dividing the active rate of return by the tracking error. The higher the information ratio, the more value-added contribution by the manager.



Liability Driven Investing (LDI) - A method to optimally structure asset investments relative to liabilities. The change in liabilities is estimated by the Ryan Labs Generic PPA Index of appropriate duration for that Plan. This benchmark is based on generic data and is therefore an approximation. RVK is not an actuarial firm, and does not have actuarial expertise.

Estimated Funded Status - The estimated ratio of a Plan's assets relative to its future liabilities. This is calculated by dividing the Plan's asset market value by the estimated present value of its liabilities. The higher the estimated funded status, the better the Plan's ability to cover its projected benefit obligations. An estimated funded status of 100% indicates a Plan that is fully funded.

Estimated PV of Liabilities - An estimate of a Plan's future liabilities in present value terms. The beginning of the period liability is provided by the Plan's actuary. The period-end present value liability estimate provided in this report is derived by applying the estimated percentage change generated using the Ryan Labs Generic PPA Index with duration similar to that reported on the most recent actuarial valuation report.

Duration of Liabilities - The sensitivity of the value of a Plan's liabilities to changes in interest rates, as calculated by the Plan's actuary.

Duration of Assets - The dollar-weighted average duration of all the individual Plan assets.

Estimated Plan Hedge Ratio - The estimate of how well a Plan's investment portfolio is hedged against changes in interest rates - a primary driver of funded status movements. This is calculated by dividing the dollar-weighted values of both the Plan asset duration by the liability duration and multiplying by the estimated funded status. An estimated plan hedge ratio of zero indicates that the Plan's liabilities have not been hedged, whereas a value of one indicates fully hedged.

Modified Duration - The approximate percentage change in a bond's price for a 100 basis point change in yield.

Net Cash Flow - The sum, in dollars, of a portfolio's contributions and withdrawals. This includes all management fees and expenses only when performance shown is gross of fees.

Peer Groups -

Plan Sponsor Peer Groups - RVK utilizes the Mellon Analytical Solutions Trust Universe along with the Investment Metrics Plan Sponsor Universe. The combined Mellon Analytical Solutions Trust Universe and Investment Metrics Plan Sponsor Universe is used for comparison of total fund composite results and utilizes actual client returns compiled from consultant and custodial data. The Plan Sponsor Peer Group database includes performance and other quantitative data for over 2,100 plans which include corporate, endowment, foundation, public, and Taft Hartley plans. Plan Sponsor Peer Groups are gross of fees.

Institutional Peer Groups (Separate Account and Commingled Fund) - RVK utilizes the Investment Metrics Separate Account and Commingled Fund Manager Peer Groups for peer comparison and rankings. The Separate Account and Commingled Fund Peer Group database includes performance and other quantitative data for over 1,000 investment management firms, 6,400 investment products, across 100 standard peer groups. Separate Account and Commingled Fund Peer Groups are gross of fees.

Mutual Fund (MF) Peer Groups - RVK utilizes the Lipper Mutual Fund Manager Peer Groups for peer comparison and rankings. The Lipper Manager Peer Group database includes performance and other quantitative data for over 700 investment management firms and 24,500 investment products, across more than 140 standard peer groups. Mutual Fund Peer Groups are net of fees.

Percentile Rankings - Percentile rank compares an individual fund's performance with those of other funds within a defined peer group of managers possessing a similar investment style. Percentile rank identifies the percentage of a fund's peer group that has a higher return (or other comparative measurement) than the fund being ranked. Conversely, 100 minus the individual fund's ranking will identify the percentage of funds within the peer group that have a lower return than the fund being ranked.

1 - Highest Statistical Value 100 - Lowest Statistical Value

Example: American Funds AMCP;R-4 (RAFEX) is ranked in the 4th percentile within the IM US Equity Large-Cap Growth Funds (MF) Peer Group for the Sharpe Ratio. Within the IM US Equity Large-Cap Growth Funds peer group, 4% of the other funds performed better than American Funds AMCP;R-4 (RAFEX), while 96% of the funds performed worse.

Performance Methodology - RVK endorses the Global Investment Performance Standards (GIPS) and calculates performance for investment managers and composites using different methodologies. Investment manager performance is calculated by revaluing the portfolio on the date of all large external cash flows while composite performance is calculated using the Modified Dietz calculation methodology. According to the CFA Institute, "Only investment management firms that actually manage assets can claim compliance with the Standards. Plan Sponsors and consultants cannot make a claim of compliance unless they actually manage assets for which they are making a claim of compliance. They can claim to endorse the Standards and/or require that their investment managers comply with the Standards."

Investment Managers - Performance is calculated for interim periods between all large external cash flows for a given month and geometrically linked to calculate period returns. An external cash flow is defined as cash, securities, or assets that enter or exit a portfolio. RVK defines a "large cash flow" as a net aggregate cash flow of ≥10% of the beginning-period portfolio market value or any cash flow that causes RVK calculated performance to deviate from manager/custodian reported performance in excess of 5 basis points for a given month.



Composites - The Modified Dietz methodology is utilized to calculate asset class, sub-asset class, and total fund composite performance. The Modified Dietz method calculates a time-weighted total rate of return that considers the timing of external cash flows; however, it does not utilize interim period performance to mitigate the impact of significant cash in- and outflows to the composite.

RVK calculates performance beginning with the first full month following inception. Since inception performance may vary from manager reported performance due to RVK using the first full month of returns as the inception date. Performance for both managers and composites is annualized for periods greater than one year.

Portfolio Characteristics - Due to disclosure guidelines set by each investment manager, portfolio characteristics shown are as of the most recent date available.

Private Equity Quartile Ranks – Private Equity quartile ranks are generated using vintage year peer group data provided by Thomson Reuters, and are based on each fund's annualized, since inception internal rate of return (IRR). Three Private Equity peer groups are available via Thomson Reuters: Buyout, Venture, and All Private Equity. Ranks are available quarterly, at a one-quarter lag.

Return - Compounded rate of return for the period.

%Return - The time-weighted rate of return of a portfolio for a given period.

R-Squared - The percentage of a portfolio's performance explained by the behavior of the appropriate benchmark. High R-Squared means a higher correlation of the portfolio's performance to the appropriate benchmark.

Risk Free Benchmark - BofA ML 3 Mo US T-Bill Index unless specified otherwise.

RVK Liquidity Rating - A qualitative method for determining the relative amount of liquidity in a portfolio. The characteristics considered when determining relative liquidity include trading volume, gates for redemption, leverage, nature of transactions, and pricing mechanisms. The RVK Liquidity Rating is calculated using beginning of month investment weights applied to each corresponding asset class liquidity rating.

Asset Class	RVK Liquidity Rating	Asset Class	RVK Liquidity Rating
Liquid Investments		Less Liquid Investments	
T-Bills and Treasurys	100	Fixed Income Plus Sector	50
Cash Equivalents	98	Bank Loans	50
TIPS	95	Stable Value (Plan Sponsor Directed)	50
US Large Cap Equity	95	Absolute Return Strategies	35
Diversified Real Return	93	Not Liquid Investments	
Stable Value (Participant Directed)	91	Core Real Estate	25
Non-US Large Cap Equity	90	Core Plus Real Estate	15
Global Tactical Asset Allocation	88	Plus Only Real Estate	5
US Small Cap Equity	85	Private Equity Funds of Funds	5
REITS	85		
Non-US Small Cap Equity	85		
Emerging Markets Equity	85		
Core Fixed Income	85		
Core Plus Fixed Income	80		

Sharpe Ratio - Represents the excess rate of return over the risk-free return (i.e., BofA ML 3 Mo US T-Bill Index unless specified otherwise), divided by the standard deviation of the excess return. The result is the absolute rate of return per unit of risk. The higher the value, the better the product's historical risk-adjusted performance.

Simple Alpha - The difference between the manager's return and the benchmark's return.

Spread Duration - A measure of the price sensitivity of a bond to a 100 basis-point movement of the bond's spread relative to Treasurys.



Standard Deviation - A statistical measure of the range of a portfolio's performance. The variability of a return around its average return over a specified time period.

Time Period Abbreviations - QTD - Quarter-to-Date. CYTD - Calendar Year-to-Date. FYTD - Fiscal Year-to-Date. YOY - Year Over Year.

Thematic Classification - Represents dedicated manager allocations; as such, thematic allocations are approximations. RVK categorizes the following asset classes as Alpha, Capital Appreciation, Capital Preservation, and Inflation:

Alpha

Absolute Return Strategies Currency Overlay

Capital Appreciation

Public Equity
Private Equity
Preferred Securities
High Yield
Convertible Fixed Income
TALF Funds
Distressed Debt

Emerging Market Fixed Income Value Added Real Estate Opportunistic Real Estate

Capital Preservation

Core Fixed Income
CMBS Fixed Income
Asset Backed Fixed Income
Domestic Core Plus Fixed Income
Mortgage Backed Fixed Income
International Developed Fixed Income

Cash Equivalents
Stable Value

Inflation

TIPS
Bank Loans
Core Real Estate
Real Return
Inflation Hedges
REITS
Commodities

Total Fund Attribution - A method for identifying the sources of a total fund's over- or underperformance relative to its benchmark. The calculation identifies the contributions of positive or negative total fund excess return caused by allocation differences relative to the total fund's custom benchmark, and performance differences of the investment managers relative to the benchmark components that represent them.

Total Fund Performance -

Total Fund - The percentage return of the total fund for the specified time period.

Total Fund Benchmark - The percentage return of the total fund benchmark for the specified time period; calculated using the target asset allocation and the corresponding benchmark returns

Total Value Added - The percentage of over- or underperformance of the total fund as compared to the total fund benchmark.

Total Value Added -

Asset Allocation - Shows how the variance of the total fund's actual allocation from its target allocation added to or subtracted from fund performance.

Manager Value Added - The portion of the total value added attributable to the outperformance or underperformance of the fund's investment managers, relative to the individual benchmarks that represent them in the total fund benchmark.

Market Timing/Other - The contribution of other residual factors, including estimation error and transaction timing.

Total Fund Beta - Total Fund Beta is calculated using the S&P 500 as the benchmark. It represents a measure of the sensitivity of the total fund to movements in the S&P 500 and is a measure of the Total Fund's non-diversifiable or systematic risk.

Tracking Error - A measure of the standard deviation of a portfolio's performance relative to the performance of an appropriate market benchmark.

Treynor Ratio - Similar to Sharpe ratio, but focuses on beta rather than excess risk (standard deviation). Treynor ratio represents the excess rate of return over the risk-free rate (i.e., BofA ML 3 Mo US T-Bill Index unless specified otherwise) divided by the beta. The result is the absolute rate of return per unit of risk. The higher the value, the better historical risk-adjusted performance.

Unit Value - The dollar value of a portfolio, assuming an initial nominal investment of \$100, growing at the compounded rate of %Return for a given period.

Up Market Capture - Up market by definition is positive benchmark return and up market capture represents the ratio in % terms of the average portfolios return over the benchmark during the up market period. The higher the value of the up market capture the better the product's performance.

Yield to Maturity - The rate of return achieved on a bond or other fixed income security assuming the security is bought and held to maturity and that the coupon interest paid over the life of the bond will be reinvested at the same rate of return.

Yield to Worst - The bond yield calculated by using the worst possible yield taking into consideration all call, put, and optional sink dates.



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