

MPSERS

TIME-WEIGHTED RATES OF RETURN PERIODS ENDING SEPTEMBER 30, 2015

	Assets % of portfolio 9/30/15	Ten Years* Rate	Seven Years* Rate	Five Years* Rate	Three Years* Rate	One Year Rate	Current Quarter Rate
TOTAL PLAN	100.0%	6.7	7.4	10.0	10.1	2.6	-2.5
Median **		5.7	6.7	8.1	7.8	-0.2	-4.3
EQUITIES							
Domestic	28.0%	7.1	10.1	13.2	13.3	-0.8	-6.7
International	13.8%	2.7	4.4	3.5	4.0	-8.7	-11.7
Private Equity	17.0%	13.4	10.7	16.8	17.2	11.7	5.0
BONDS	12.1%	5.4	5.9	3.6	2.5	3.1	0.5
REAL ESTATE & INFRASTRUCTURE	10.0%	6.0	2.4	12.9	13.2	11.8	3.1
CASH EQUIVALENTS	4.3%	1.3	0.7	0.3	0.4	0.5	0.1
ABSOLUTE RETURN	7.5%		2.2	5.7	7.2	2.4	-1.4
REAL RETURN & OPPORTUNISTIC	7.3%			10.1	12.5	7.3	1.5

* Annualized Returns

** Comparison universe is the State Street Universe comprised of Public Funds greater than \$10 Billion on the total plan level and greater than \$1 Billion for asset classes.

Source: State Street Analytics.

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Risk		
<i>STANDARD DEVIATIONS</i>		
	Value	Rank
<i>Five Years</i>		
MPSERS	5.5 %	23
Median	7.1 %	
<i>Ten Years</i>		
MPSERS	7.9 %	20
Median	9.7 %	