

MPSERS

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

	Assets % of portfolio 6/30/15	Ten Years* Rate	Seven Years* Rate	Five Years* Rate	Three Years* Rate	One Year Rate	Current Quarter Rate
TOTAL PLAN	100.0%	7.4	6.8	12.1	12.4	6.2	1.3
Median **		6.7	5.9	11.0	11.1	3.3	0.6
EQUITIES							
Domestic	30.1%	8.2	9.9	17.3	18.5	7.3	0.2
International	15.1%	5.1	2.7	9.2	11.0	-1.7	1.2
Private Equity	16.0%	13.9	9.8	15.9	15.6	11.5	4.2
BONDS	11.7%	5.3	5.6	4.2	3.0	2.7	-0.9
REAL ESTATE & INFRASTRUCTURE	9.2%	6.0	2.0	13.1	13.1	14.8	2.8
CASH EQUIVALENTS	4.4%	1.4	0.7	0.3	0.4	0.4	0.1
ABSOLUTE RETURN	7.1%			6.1	8.5	5.2	2.0
REAL RETURN & OPPORTUNISTIC	6.6%			10.8	12.4	7.5	2.1

* 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	5.8 %	18
Median	7.3 %	
<i>Ten Years</i>		
MPSERS	7.8 %	14
Median	10.1 %	