## PSERS' Investment Portfolio Asset Allocation as of December 31, 2015 (Unaudited)

Asset Class
Publicly-Traded Global Equity
Private Markets
$\quad$ Total Equities
Investment Grade
Credit-Related
Inflation Protected
$\quad$ Total Fixed Income
Master Limited Partnership (MLP)
Infrastructure
Commodities
Real Estate
$\quad$ Total Real Assets
Risk Parity
Absolute Return
Cash and Cash Equivalents*
TOTAL INVESTMENT PORTFOLIO

Net Other Assets and Liabilities
PSERS TOTAL NET ASSETS

| Market Value <br> (in millions) | \% of <br> Total | Target <br> Allocations | Policy <br> Ranges |
| :---: | :---: | :---: | :---: |
| $\$ 10,581.2$ | $22.7 \%$ |  |  |
| $\underline{\$ 7,580.6}$ | $\underline{16.2 \%}$ |  | $+/-10.0 \%$ |
| $\$ 18,161.8$ | $38.9 \%$ | $37.50 \%$ | $+/-10.0 \%$ |
| $\$ 3,090.9$ | $6.6 \%$ |  |  |
| $\$ 3,906.9$ | $8.4 \%$ |  |  |
| $\$ 2,829.3$ | $\underline{6.1 \%}$ |  |  |
| $\$ 9,827.0$ | $4.2 \%$ | $20.00 \%$ | $+/-10.0 \%$ |
| $\$ 1,943.4$ | $0.5 \%$ |  | $+/-5.0 \%$ |
| $\$ 211.9$ | $\underline{11.5 \%}$ |  | $+/-4.0 \%$ |
| $\$ 1,456.4$ | $8.3 \%$ | $21.00 \%$ |  |
| $\$ 5,382.4$ | $10.4 \%$ | $10.00 \%$ |  |
| $\$ 8,994.1$ | $\underline{1.6 \%}$ |  |  |
| $\$ 4,051.5$ | $\mathbf{1 0 0 . 0 \%}$ | $\mathbf{1 0 0 . 0 0 \%}$ |  |

\$1,807.5
$\$ 48,476.9$

[^0]
## PSERS' Investment Portfolio Asset Allocation as of December 31, 2015 (Unaudited)



## PSERS' Historical Asset Allocation


$\square$ U.S. Equity
$\square$ Non-U.S. Equity
$\square$ Fixed Income
$\square$ Real Estate
$\square$ Private Markets
$\square$ Absolute Return
$\square$ MLP
$\square$ Infrastructure
$\square$ Risk Parity
$\square$ Commodities
$\square$ Cash \& Cash Equivalents

## PSERS' Investment Portfolio Total Market Value (in billions)



## PSERS' Investment Portfolio Internally Managed Assets (in billions)



## PSERS' Summary Statements of Changes in Plan Net Assets For the Fiscal Years Ended June 30, 2015, 2014, and 2013

| Additions: | 2015 (\$ in millions) | 2014 (\$ in millions) | 2013 (\$ in millions) |
| :---: | :---: | :---: | :---: |
| - Member Contributions | 985 | 967 | 991 |
| - Employer Contributions | 2,597 | 1,992 | 1,446 |
| - Net Investment Income | 1,328 | 7,098 | 4,126 |
| Total Additions | 4,910 | 10,057 | 6,563 |
| Deductions: |  |  |  |
| - Pension Benefits | 6,221 | 6,053 | 6,044 |
| - Administrative Expenses | 42 | 39 | 37 |
| Total Deductions | 6,263 | 6,092 | 6,081 |
| Net Increase/(Decrease) in Plan Net Assets | $(1,353)$ | 3,965 | 482 |

Source: PSERS
Numbers may not add due to rounding

## PSERS' Sources of Funding 20 Year History (1996 to 2015)



Investment Earnings
$\$ 69.3$ Billion (68.6\% of Total)

# PSERS' Funded Ratio - 1991 to 2015 (in millions) 

| FY Ending June 30 | Accrued Liability (\$) | Valuation Assets (\$) | Unfunded (Overfunded) Accrued Liability (\$) | Funded Ratio (\%) |
| :---: | :---: | :---: | :---: | :---: |
| 2015 | 94,698 | 57,362 | 37,336 | 60.6 |
| 2014 | 92,465 | 57,344 | 35,121 | 62 |
| 2013 | 90,052 | 57,454 | 32,598 | 63.8 |
| 2012 | 87,854 | 58,321 | 29,533 | 66.4 |
| 2011 | 85,752 | 59,252 | 26,500 | 69.1 |
| 2010 | 79,122 | 59,424 | 19,698 | 75.1 |
| 2009 | 75,626 | 59,887 | 15,739 | 79.2 |
| 2008 | 70,941 | 61,018 | 9,923 | 86 |
| 2007 | 66,593 | 57,155 | 9,438 | 85.8 |
| 2006 | 64,720 | 52,558 | 12,162 | 81.2 |
| 2005 | 61,226 | 51,219 | 10,007 | 83.7 |
| 2004 | 57,124 | 52,095 | 5,029 | 91.2 |
| 2003 | 54,443 | 52,900 | 1,543 | 97.2 |
| 2002 | 51,796 | 54,296 | -2,500 | 104.8 |
| 2001 | 47,917 | 54,830 | -6,913 | 114.4 |
| 2000 | 39,823 | 49,293 | -9,470 | 123.8 |
| 1999 | 37,499 | 44,606 | -7,107 | 119 |
| 1998 | 36,136 | 39,969 | -3,833 | 110.6 |
| 1997 | 33,210 | 34,873 | -1,663 | 105 |
| 1996 | 31,630 | 30,171 | 1,459 | 95.4 |
| 1995 | 30,073 | 26,971 | 3,102 | 89.7 |
| 1994 | 28,348 | 24,552 | 3,796 | 86.6 |
| 1993 | 25,947 | 22,644 | 3,303 | 87.3 |
| 1992 | 24,570 | 20,068 | 4,502 | 81.7 |
| 1991 | 22,574 | 17,962 | 4,612 | 79.6 |

## PSERS' Funded Ratio - 1991 to 2015

(percentage)


Fiscal Year Ending June 30

## Total Contribution Rates Since 1991-92

| Fiscal <br> Year | Employer <br> Rate $(\%)^{*}$ | Member <br> Rate (\%) | Total Contribution <br> Rate (\%) |
| :---: | :---: | :---: | :---: |
| $2016-17$ | 30.03 | 7.52 | 37.55 |
| $2015-16$ | 25.84 | 7.49 | 33.33 |
| $2014-15$ | 21.40 | 7.46 | 28.86 |
| $2013-14$ | 16.93 | 7.43 | 24.36 |
| $2012-13$ | 12.36 | 7.40 | 19.76 |
| $2011-12$ | 8.65 | 7.37 | 16.02 |
| $2010-11$ | 5.64 | 7.34 | 12.98 |
| $2009-10$ | 4.78 | 7.32 | 12.10 |
| $2008-09$ | 4.76 | 7.29 | 12.05 |
| $2007-08$ | 7.13 | 7.25 | 14.38 |
| $2006-07$ | 6.46 | 7.21 | 13.67 |
| $2005-06$ | 4.69 | 7.16 | 11.85 |
| $2004-05$ | 4.23 | 7.12 | 11.35 |
| $2003-04$ | 3.77 | 7.08 | 10.85 |
| $2002-03$ | 1.15 | 7.10 | 8.25 |
| $2001-02$ | 1.09 | 6.43 | 7.52 |
| $2000-01$ | 1.94 | 5.77 | 7.71 |
| $1999-2000$ | 4.61 | 5.72 | 10.33 |
| $1998-99$ | 6.04 | 5.69 | 11.73 |
| $1997-98$ | 8.76 | 5.65 | 14.41 |
| $1996-97$ | 10.60 | 5.62 | 16.22 |
| $1995-96$ | 11.72 | 5.59 | 17.31 |
| $1994-95$ | 11.06 | 5.55 | 16.61 |
| $1993-94$ | 13.17 | 5.51 | 18.68 |
| $1992-93$ | 14.24 | 5.48 | 19.72 |
| $1991-92$ | 14.90 | 5.46 | 20.36 |
| Employer Rate reflects $t h e 5.64 \%$ | rate prescribed by Act $2010-46$ | which supercedes |  |

* NOTE - The 2010-11 Employer Rate reflects the $5.64 \%$ rate prescribed by Act 2010-46 which supercedes the $8.22 \%$ rate prescribed in the June 30, 2009 actuarial valuation prepared by Buck Consultants. The 2011-12 Employer Rate reflects the funding provisions of HB 2497. The years 2012-13 through 2016-17 Employer Rates reflect the funding provisions of Act 120.


## History of Member and Employer Contribution Rates Since 1991-92



NOTE - The 2010-11 Employer Rate reflects the $5.64 \%$ rate prescribed by Act 2010-46 which supersedes the $8.22 \%$ rate prescribed in the June 30, 2009 actuarial valuation prepared by Buck Consultants. The 2011-12 Employer Rate reflects the funding provisions of HB 2497. The years 2012-13 through 2016-17 Employer Rates reflect the funding provisions of Act 120.


[^0]:    *     - includes Cash, Cash Equivalents, and net asset value accounting adjustments

