## 2015 Financial Highlights

Service and stewardship since 1923.
SERS Defined Benefit Plan

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## Changes in Fiduciary Net Position

(\$ millions)

|  | 2015 |  | 2014 |  | Change |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | \$ | \% |
| Net Position - Beginning | \$ | 27,338 |  |  | \$ | 27,394 |  |  |
| Contributions |  | 1,732 |  | 1,450 | 282 | 19\% |
| Net Investment Income |  | 88 |  | 1,462 | $(1,374)$ | -94\% |
| Less: |  |  |  |  |  |  |
| Benefit Payments and Refunds |  | 3,081 |  | 2,946 | 135 | 5\% |
| Administrative Expenses |  | 22 |  | 22 | - | 0\% |
| Net Decrease |  | $(1,283)$ |  | (56) |  |  |
| Net Position - End of Year | \$ | 26,055 | \$ | 27,338 |  |  |

# Contributions Highlights 

## For the Year Ended December 31, 2015



## Annuity Payroll

As of December 31, 2015
$\left.\begin{array}{lrr}\quad \begin{array}{c}\text { Retirement } \\ \text { Member } \\ \text { Types }\end{array} & & \begin{array}{c}\text { Number } \\ \text { of }\end{array} \\ \text { Annuitants }\end{array}\right]$

| Average <br> Annual |
| ---: |
| Annuity |
| $\$ 27,042$ |
| 16,934 |
| 12,313 |
| 15,021 |
| 11,827 |
| 9,933 |
| $\$ 21,369$ |



Number of Annuitants by Annual Annuity Size


## Annuitant Profile

Number of Annuitants by Major Legislative Provision and Average Annual Pension ${ }^{1 /}$

## 2015 Annuitants

124,640

Annual Pension Amount



[^0]

## 10 Year Funding and Payment Activity

Funding by Source vs. Benefits and Expenses Paid
(\$ billions)



## Statement of Change Activity By Year (\$ millions)



## Contributions


${ }^{1 /}$ ARC calculation is based on methods established by General Accounting Standards Board (GASB) 25, which was superseded by GASB 67 in 2014.
pennsylvania

## Projected Funding Levels \& Contribution Rates

## (\$ millions)

| Valuation <br> Year <br> Ended <br> Dec 31 | Funded <br> Ratio | Fiscal <br> Year | Funding Payroll | Employer <br> Normal <br> Cost Rate | Unfunded <br> Liability <br> Rate |  | Preliminary Employer Contribution Rate | Final Employer Contribution Rate ${ }^{2 /}$ | Employer Contribution Dollars |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2015 | 58.0 \% | 16/17 | \$ 6,255 | 4.52 \% | 27.62 | \% | 32.14 \% | 29.50 \% | \$ | 1,845 |
| $2016{ }^{\text {3/ }}$ | 59.0 | 17/18 | 6,446 | 4.52 | 27.18 |  | 31.70 | 31.70 |  | 2,043 |
| 2017 | 60.1 | 18/19 | 6,643 | 4.52 | 26.69 |  | 31.21 | 31.21 |  | 2,073 |
| 2018 | 60.3 | 19/20 | 6,845 | 4.52 | 26.59 |  | 31.11 | 31.11 |  | 2,129 |
| 2019 | 60.7 | 20/21 | 7,054 | 4.52 | 26.37 |  | 30.89 | 30.89 |  | 2,179 |
| 2020 | 61.9 | 21/22 | 7,269 | 4.52 | 25.72 |  | 30.24 | 30.24 |  | 2,198 |
| 2021 | 63.1 | 22/23 | 7,491 | 4.52 | 25.07 |  | 29.59 | 29.59 |  | 2,217 |
| 2022 | 64.4 | 23/24 | 7,719 | 4.52 | 24.43 |  | 28.95 | 28.95 |  | 2,235 |
| 2023 | 65.6 | 24/25 | 7,955 | 4.52 | 23.79 |  | 28.31 | 28.31 |  | 2,252 |
| 2024 | 66.9 | 25/26 | 8,197 | 4.52 | 23.16 |  | 27.68 | 27.68 |  | 2,269 |
| 2025 | 68.2 | 26/27 | 8,447 | 4.52 | 22.55 |  | 27.07 | 27.07 |  | 2,287 |
| 2026 | 69.5 | 27/28 | 8,705 | 4.52 | 21.96 |  | 26.48 | 26.48 |  | 2,305 |

${ }^{1 /}$ Other than funded ratio, rates and values are for the fiscal year beginning July 1 following the funding valuation year and do not include the Benefits Completion Plan contribution. All information on this page is based on statutory funding requirements.
2)

Act 2010-120 amended the Retirement Code to place a collar on increases to employer contribution rate of $4.50 \%$ for fiscal year beginning July 1, 2013 and thereafter until collar becomes unnecessary.
3)

Act 2010-120 amended the Retirement Code to place a permanent floor at employer normal cost after collars expire.

## Active Member Profile

- As of December 31, 2015, total active membership was 105,025.
- Act 2010-120 (Act 120) membership totaled 28,507 , or $27 \%$ of total active membership.
- Of the total Act 120 members, 3,353 or $12 \%$ of Act 120 membership have selected the higher $2.5 \%$ benefit accrual, or class A-4 status.

Act 120 members as a \% of total membership


## GASB 67

- In 2014, SERS implemented the Governmental Accounting Standards Board (GASB) Statement No. 67
- GASB 67 significantly revised financial reporting for pension plans
- Standardized actuarial cost method to be used in calculating the total pension liability and net pension liability
- Standardized asset valution methods and amortization periods
- Developed stricter guidelines for formulating the discount rate

| As of December 31, 2015 (\$ millions) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| GASB 67 - Accounting Method |  |  | Funding Method |  |  |
| Total Pension Liability (TPL) | \$ | 44,239 | Actuarial Accrued Liability (AAL) | \$ | 46,329 |
| Fiduciary Net Position | \$ | 26,055 | Actuarial Value of Assets | \$ | 26,877 |
| Net Pension Liability (NPL) | \$ | 18,184 | Unfunded AAL | \$ | 19,452 |
| Fiduciary Net Position/TPL |  | 58.9\% | Funded Ratio |  | 58.0\% |

## GASB 68

- GASB issued Statement No. 68, which was effective for fiscal years ending on or after June 30, 2015
- GASB 68 revised the required pension reporting of employers who are members of the pension system
- Required employers to report their proportionate share of net pension liability, pension expense, and deferred outflows/inflows related to pensions in the employers' financial statements
- Required the development of a proportionate share or allocation percent, using a methodology consistent with the manner in which contributions are expected to be made to the plan


## Net Pension Liability and Expense <br> as of December 31, 2015 <br> (\$ millions)

| Agency | Net Pension Liability (NPL) | Pension Expense | Proportionate Share of NPL |
| :---: | :---: | :---: | :---: |
| Corrections | \$3,320 | \$451 | 18\% |
| Human Services | 2,387 | 318 | 13\% |
| State Police | 1,932 | 286 | 11\% |
| Transportation | 1,788 | 238 | 10\% |
| Penn State | 982 | 129 | 5\% |
| Sys. of Higher Education | 858 | 107 | 5\% |
| Labor and Industry | 720 | 91 | 4\% |
| PA Courts | 675 | 88 | 4\% |
| Liquor Control Board | 475 | 63 | 3\% |
| Environmental Protection | 443 | 57 | 2\% |
| Remaining Employers | 4,604 | 609 | 25\% |
| Total Employer | \$18,184 | \$2,437 | 100\% |

## Changes in Net Position Available for Benefits

(\$ millions)

|  | 2015 | 2014 | Change |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | \$ | \% |
| Net Position - Beginning | \$ 2,960 | \$ 2,764 |  |  |
| Contributions | 135 | 129 | 6 | 5\% |
| Net Investment Income | 11 | 188 | (177) | -94\% |
| Less: |  |  |  |  |
| Benefits, Refunds \& Transfers | 118 | 118 | - | 0\% |
| Third Party and Admin. Expenses | 4 | 3 | 1 | 33\% |
| Net Increase | 24 | 196 |  |  |
| Net Position - End of Year | \$ 2,984 | \$ 2,960 |  |  |

## Fund Balances \& Breakouts

## Fund Balances

(\$ millions)

|  | 2015 | 2014 | Allocation \% |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | 2015 | 2014 |
| Stable Value | \$1,049 | \$1,021 | 35\% | 35\% |
| Stock Index | 717 | 713 | 24\% | 24\% |
| Extended Market | 294 | 310 | 10\% | 11\% |
| 60/40 Balanced | 217 | 216 | 7\% | 7\% |
| Moderate Portfolio | 142 | 137 | 5\% | 5\% |
| Aggressive Portfolio | 121 | 118 | 4\% | 4\% |
| Bond Index | 118 | 111 | 4\% | 4\% |
| EAFE Equity Index | 105 | 105 | 4\% | 4\% |
| Self-Directed Brokerage | 89 | 88 | 3\% | 3\% |
| Conservative Portfolio | 57 | 54 | 2\% | 2\% |
| S-T Money Market | 47 | 44 | 2\% | 2\% |
| Total | \$2,956 | \$2,917 | 100\% | 100\% |

## Fund Returns

As of December 31, 2015

| FUND | 1 Year <br> Return |  | Since Inception Average Return |
| :---: | :---: | :---: | :---: |
| EQUITY |  |  |  |
| Stock Index <br> Large Cap | 1.4\% | 12.6\% | 9.5\% |
| Extended Market Med/Small Cap | -3.3\% | 10.5\% | 8.4\% |
| EAFE Equity Index International | -0.4\% | 3.7\% | 4.1\% |
| PROFILE SERIES |  |  |  |
| Aggressive | 0.5\% | 9.0\% | 7.7\% |
| Moderate | 0.6\% | 7.7\% | 7.0\% |
| Conservative | 0.5\% | 4.9\% | 5.2\% |
| ASSET ALLOCATION |  |  |  |
| 60/40 Balanced | 1.2\% | 9.1\% | 6.8\% |
| FIXED INCOME |  |  |  |
| Stable Value | 2.5\% | 3.0\% | 4.8\% |
| Bond Index | 0.5\% | 3.2\% | 5.8\% |
| Aggregate Bond |  |  |  |
| CASH |  |  |  |
| Short Term Money Market | 0.2\% | 0.2\% | 3.4\% |



## Contributions by Fund

## for the years ended December 31, 2015 and 2014 <br> (\$ millions)



## Contribution Levels



## Participant Account Balance Demographics

## as of December 31, 2015

Number of Active Participants by Account Balance Ranges


Cumulative Active Participant Population by Balance Threshold


## 10 Year Growth of the Fund



## Participant History

| Year | New <br> Participants |  | Total |  |
| :---: | ---: | ---: | ---: | ---: |
|  | Withdrawals | Total <br> Participants |  |  |
|  | 2008 | 2,593 | 2,219 | 49,030 |
| 2010 | 2,059 | 2,021 | 49,068 |  |
| 2011 | 2,743 | 1,977 | 49,834 |  |
| 2012 | 2,845 | 2,341 | 50,338 |  |
| 2013 | 2,196 | 2,056 | 50,478 |  |
| 2014 | 2,456 | 2,238 | 50,696 |  |
| 2015 | 3,273 | 2,094 | 51,875 |  |
|  | 3,527 | 2,554 | 52,848 |  |


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## Roth Option ${ }^{1 /}$

In August 2012, the DCP began offering a Roth option. This option allowed participants to make post tax contributions to a Roth account. In 2014 the program was amended again to allow members to make in-plan conversions of assets to Roth Assets. Roth participant data as of:

## December 31, 2015

- 3,850 Participants
- Average Participant age: 43
- Average Balance: $\$ 4,292$
- Total Roth Balance: $\$ 16,525,946$
- 15 Total Conversions to Roth


## December 31, 2014

- 2,583 Participants
- Average Participant age: 44
- Average Balance: $\$ 3,838$
- Total Roth Balance: $\$ 9,913,601$
- 6 Total Conversions to Roth
${ }^{1 /}$ According to the 2015 National Association of Government Defined Contribution Administrators' Public Sector Defined Contribution Plan survey of 129 government defined contribution plans, $28 \%$ offer Roth accounts and $7 \%$ offer in-service Roth conversions.


## Self-Directed Brokerage Account

In 2004 the DCP began offering the Self-Directed Brokerage Account (SDBA) through Charles Schwab. Participants have access to over 8,000 mutual funds through the SDBA. As of December 31, 2015, total asset value for the SDBA was $\$ 89.1$ million comprised of 1,177 different mutual funds. The average account balance was $\$ 75,691$.


Numbers may not add due to rounding.
Source: Charles Schwab \& Co., Inc.

| Top 10 Mutual Fund (MF) Holdings | $\$$ MF Assets | $\%$ <br> Assets |
| :--- | :---: | :---: |
| GLENMEDE LARGE CAP CORE | $\$ 3,039,279$ | 3.72 |
| MORGAN STANLEY INST GBL OPPTY | $\$ 2,859,214$ | 3.50 |
| RIDGEWORTH SEIX FLOAT | $\$ 2,798,374$ | 3.42 |
| T ROWE PRICE BLUE CHIP | $\$ 2,591,973$ | 3.17 |
| EVENTIDE GILEAD CL N | $\$ 2,335,775$ | 2.86 |
| PIMCO STOCKPLUS INTL FD USD H | $\$ 2,329,268$ | 2.85 |
| EMERALD GWTH FD CL A | $\$ 2,299,930$ | 2.81 |
| PRIMECAP ODYSSEY GROWTH | $\$ 2,251,253$ | 2.75 |
| PACIFIC FINANCIAL | $\$ 2,219,346$ | 2.71 |
| PACIFIC FINANCIAL CORE | $\$ 2,204,448$ | 2.70 |

## Other Data

## As of December 31, 2015

| Defined Benefit Plan |  | Deferred Compensation Program |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Avg. Active Member Credited Service | 11.6 | Total Active Members |  | 34,754 |
| Avg. Active Member Annual Salary | \$ 56,858 | Total Non-Active Members |  | 18,094 |
| Avg. Age at Retirement | 60 | Total Member Count |  | 52,848 |
| Avg. Annual Pension for New Retirees | \$ 26,073 | Avg. SERS DCP Member Account Balance | \$ | 55,935 |
| Avg. Ann. Pen. for Ret. Removed from Rolls | \$ 14,647 | Avg. Surveyed DCP Account Balance ${ }^{1 /}$ | \$ | 59,000 |
| Ten Yr. Active Member Decrease ( 110,972 to 105,025 ) | -5.36\% | Largest Account Balance | \$ | 1,442,212 |
| Ten Yr. Retired Member Increase ( 102,060 to 124,689) | 22.17\% | Avg. SERS DCP Member Ann. Contribution | \$ | 2,871 |
| Total Option 4 Withdrawal Payouts | \$ 346 Million | Avg. Surveyed DCP Ann. Contribution ${ }^{1 /}$ | \$ | 5,701 |
| Avg. Option 4 Payout | \$73,430 | Avg. Number of Investment Options Held |  | 2.73 |


[^0]:    ${ }^{1 /}$ Does not include post Act 2010-120

