

## **2015 Financial Highlights**

Service and stewardship since 1923.

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# **Changes in Fiduciary Net Position**

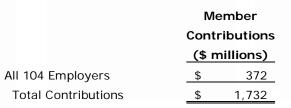
			Chang	ge
	2015	2014	\$	%
Net Position - Beginning	\$ 27,338	\$ 27,394		
Contributions	1,732	1,450	282	19%
Net Investment Income	88	1,462	(1,374)	-94%
Less:				
Benefit Payments and Refunds	3,081	2,946	135	5%
Administrative Expenses	22	22	-	0%
Net Decrease	(1,283)	(56)		
Net Position - End of Year	\$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

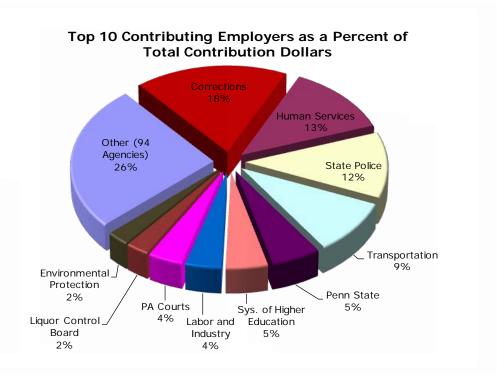


## **Contributions Highlights**

For the Year Ended December 31, 2015

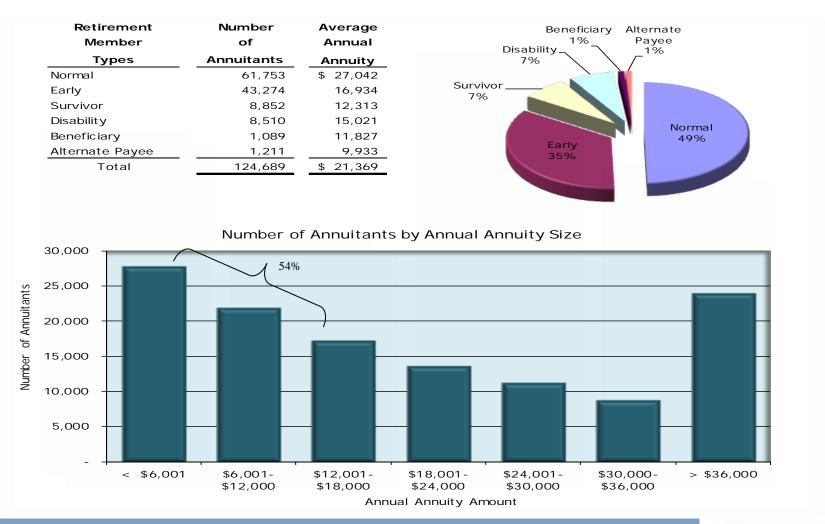
		ployer ributions	Active
<u>Employer</u>	(\$ m	nillions)	Members
Corrections	\$	247	15,362
Human Services		171	17,085
State Police		159	6,459
Transportation		127	12,434
Penn State		73	6,111
Sys. of Higher Education		62	4,929
Labor and Industry		53	4,751
PA Courts		51	1,940
Liquor Control Board		34	4,313
Environmental Protection		33	2,485
Other (94 Employers)		350	29,156
Total Employer	\$	1,360	105,025





# **Annuity Payroll**

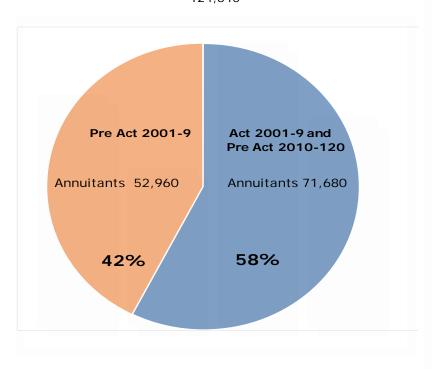
As of December 31, 2015

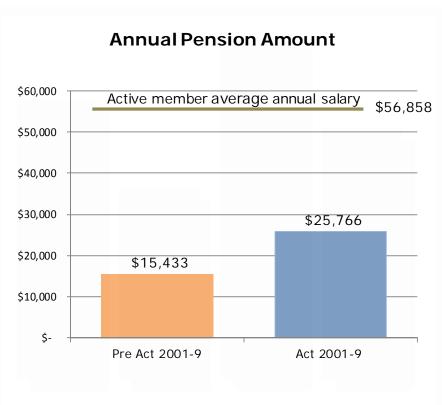


### **Annuitant Profile**

Number of Annuitants by Major Legislative Provision and Average Annual Pension<sup>1/</sup>

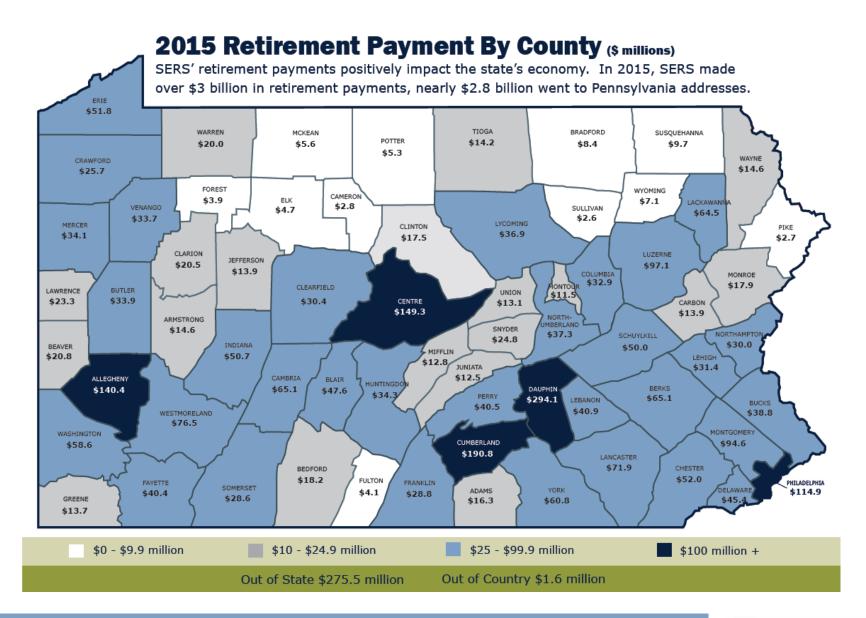
### **2015 Annuitants** 124,640



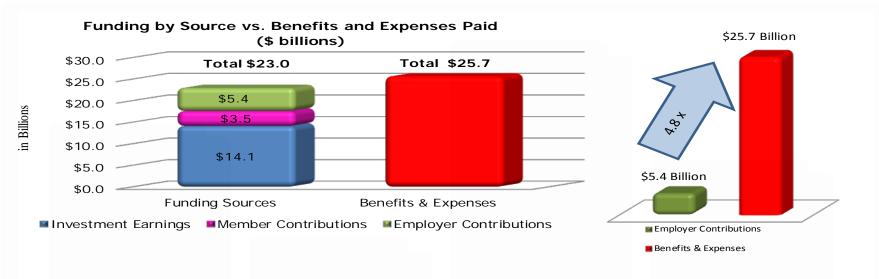




<sup>&</sup>lt;sup>1/</sup> Does not include post Act 2010-120



# **10 Year Funding and Payment Activity**

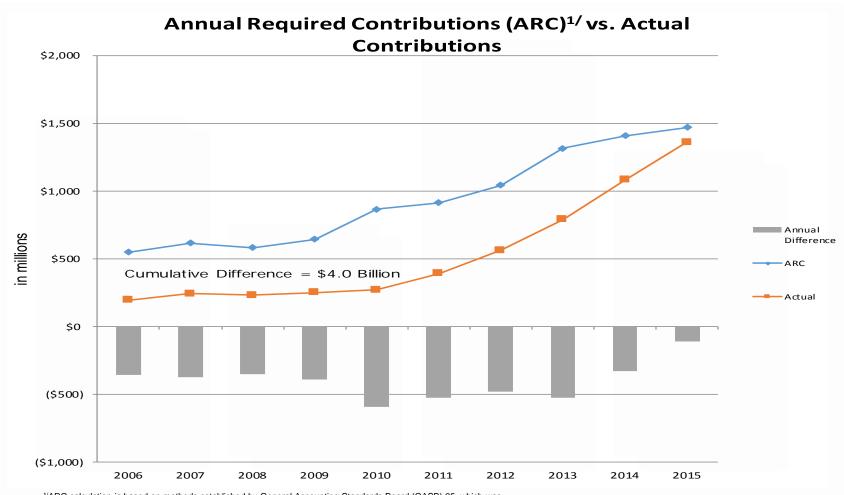


#### Statement of Change Activity By Year (\$ millions)

Ca	lendar	endar Contributions		dar Contributions Investment Ben		Benefits and	
	Year	Employer	Member	Total	Earnings	Expenses	Fair Value
	2015	\$1,360	\$372	\$1,732	\$88	/ \$(3,103)	11.9% \$26,055 \
	2014	1,084	366	1,450	1,462	(2,968)	27,338
	2013	795	352	1,147	3,724	(2,866)	27,394
	2012	565	348	913	2,795	(2,696)	25,389
	2011	392	351	743	480	(2,732)	24,377 ( <sub>18.7%</sub> )
	2010	273	349	622	3,076	59.7% (2,474)	25,886 (Decrease)
	2009	253	349	602	3,561	(2,297)	24,662
	2008	235	337	572	(11,061)	(2,231)	22,796 🖈
	2007	244	334	578	5,246	(2,361)	35,516
	2006	196	318	514	4,730	(1,943)	6.1% 32,053
10	Yr. Total	\$5,397	\$3,476	\$8,873	\$14,101	\$(25,671)	



### **Contributions**



<sup>1</sup>/ARC calculation is based on methods established by General Accounting Standards Board (GASB) 25, which was superseded by GASB 67 in 2014.



## **Projected Funding Levels & Contribution Rates**

Valuation Year Ended	Funded	Fiscal	Funding	Employer Normal		Unfunded Liability		Preliminary Employer Contribution	Final Employer Contribution	Employer Contribution
Dec 31	Ratio	Year	Payroll	Cost Rate		Rate		Rate	Rate <sup>2/</sup>	Dollars
2015	58.0 %	16/17	\$ 6,255	4.52	%	27.62	%	32.14 %	29.50 %	\$ 1,845
2016 <sup>3/</sup>	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

<sup>&</sup>quot;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.



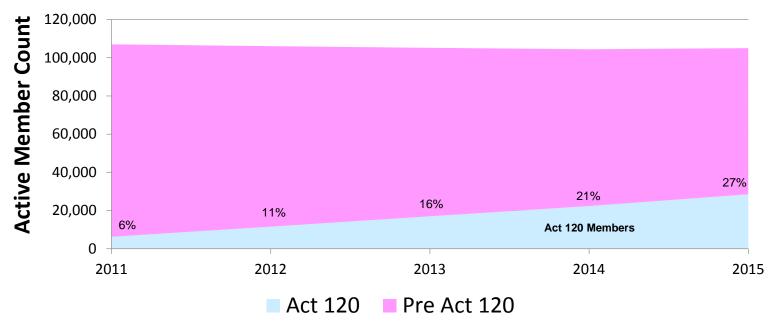
Act 2010-120 amended the Retirement Code to place a collar on increases to employer contribution rate of 4.50% for fiscal year beginning July 1, 2013 and thereafter until collar becomes unnecessary.

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 N	Method (4	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 as of December 31, 2015

<u>Agency</u>	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%
<b>Environmental Protection</b>	443	57	2%
Remaining Employers	4,604	609	25%
Total Employer	\$18,184	\$2,437	100%



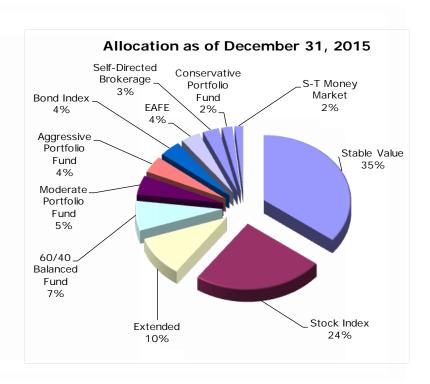
# **Changes in Net Position Available for Benefits**

			Chai	nge
	2015	2014	\$	%
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**

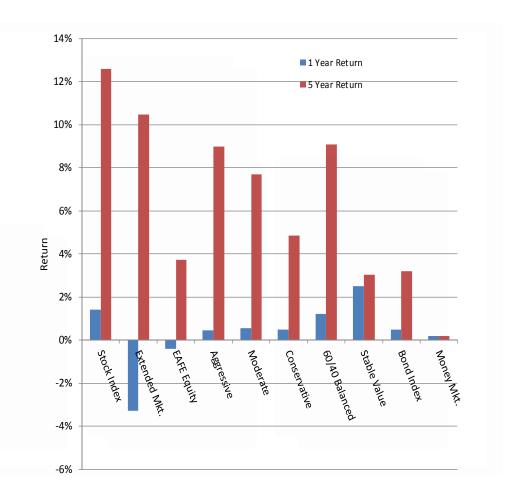
			Allocation %		
	2015	2014	2015	2014	
Stable Value	\$1,049	\$1,021	35%	35%	
Stock Index	717	713	24%	24%	
Extended Market	294	310	10%	11%	
60/40 Balanced	217	216	7%	7%	
Moderate Portfolio	142	137	5%	5%	
Aggressive Portfolio	121	118	4%	4%	
Bond Index	118	111	4%	4%	
EAFE Equity Index	105	105	4%	4%	
Self-Directed 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

			Since
		5 Year	Inception
	1 Year	Average	Average
FUND	Return	Return	Return
EQUITY			
Stock Index	1.4%	12.6%	9.5%
Large Cap			
Extended Market	-3.3%	10.5%	8.4%
Med/Small Cap			
EAFE Equity Index	-0.4%	3.7%	4.1%
International			
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%

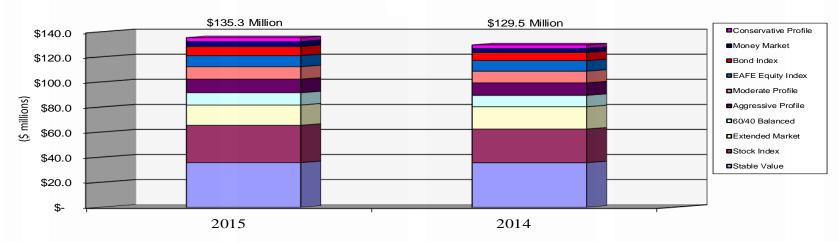


## **Contributions by Fund**

for the years ended December 31, 2015 and 2014 (\$ millions)

					Inc	rease/	%
Fund	2015			2014	(Dec	crease)	Change
Stable Value	\$	35.7	\$	35.6	\$	0.1	0%
Stock Index		29.7		26.8		2.9	11%
Extended Market		16.2		17.8		(1.6)	-9%
Aggressive Profile		10.8		9.9		0.9	9%
Moderate Profile		10.0		9.4		0.6	6%
60/40 Balanced		9.8		9.1		0.7	8%
EAFE Equity Index		8.8		8.4		0.4	5%
Bond Index		7.3		6.5		8.0	12%
Short Term Money Market		3.9		3.2		0.7	22%
Conservative Profile		3.1		2.8		0.3	11%
Total Contributions	\$	135.3	\$	129.5	\$	5.8	4%

#### **Annual Contributions**



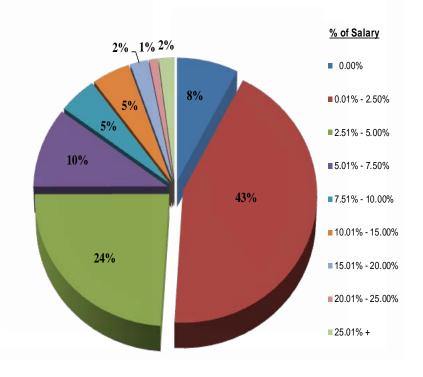
### **Contribution Levels**

#### **Contribution Levels**

As of December 31, 2015

					Average	
0,	- 6 0 -	I	# of	D	Annual	
% of Salary		<u>Participants</u>	Percent	Contribution		
		0.00%	2,657	7.65%	\$ -	
0.01%	-	2.50%	15,067	43.35%	755	
2.51%	-	5.00%	8,326	23.96%	2,194	
5.01%	-	7.50%	3,553	10.22%	3,998	
7.51%	-	10.00%	1,649	4.74%	5,903	
10.01%	-	15.00%	1,651	4.75%	8,991	
15.01%	-	20.00%	783	2.25%	14,103	
20.01%	-	25.00%	384	1.10%	16,444	
25.01%	+		684	1.97%	20,477	
Total Active Participants		34,754				

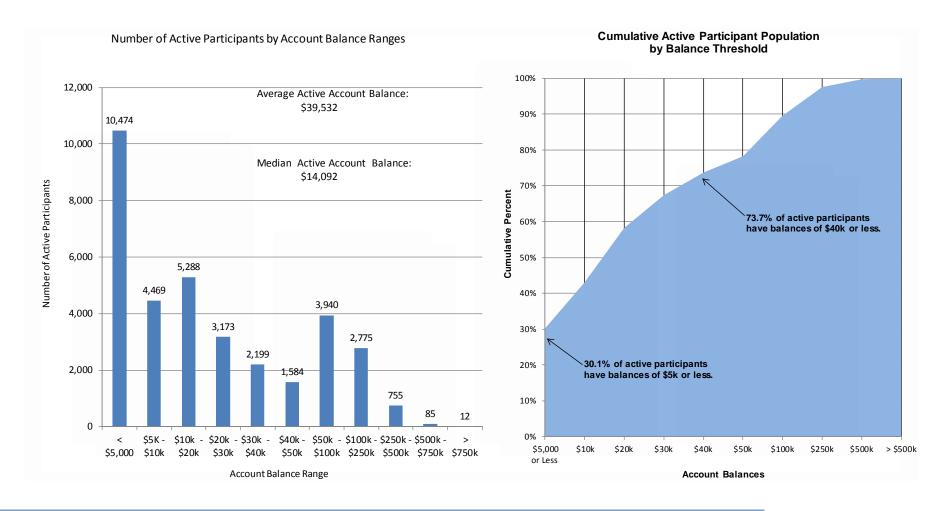
#### % of Participants by Contribution Levels



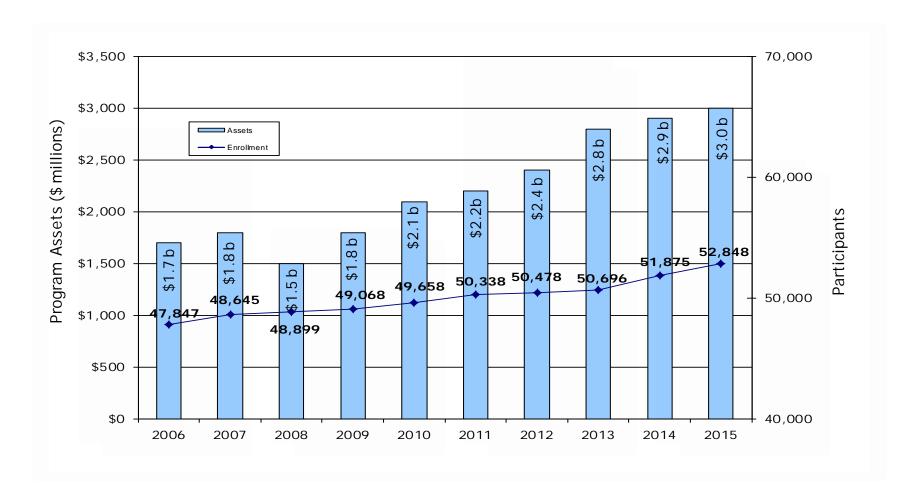


## **Participant Account Balance Demographics**

as of December 31, 2015

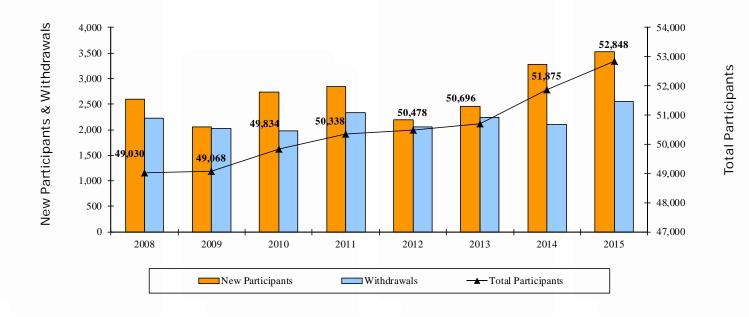


## **10 Year Growth of the Fund**



## **Participant History**

	New		Total		
Year	<u>Participants</u>	Withdrawals	<b>Participants</b>		
2008	2,593	2,219	49,030		
2009	2,059	2,021	49,068		
2010	2,743	1,977	49,834		
2011	2,845	2,341	50,338		
2012	2,196	2,056	50,478		
2013	2,456	2,238	50,696		
2014	3,273	2,094	51,875		
2015	3,527	2,554	52,848		



# **Roth Option**<sup>1/</sup>

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

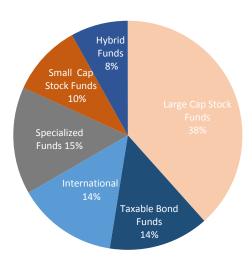
<sup>&</sup>lt;sup>1</sup>/According to the 2015 National Association of Government Defined Contribution Administrators' Public Sector Defined Contribution Plan survey of 129 government defined contribution plans, 28% offer Roth accounts and 7% offer in-service Roth conversions.



## **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.

#### **Market Value Allocation**



Numbers may not add due to rounding.

Source: Charles Schwab & Co., Inc.

Top 10 Mutual Fund (MF) Holdings	\$ MF Assets	% MF 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 <sup>1/</sup>	\$ 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 <sup>1/</sup>	\$ 5,701
Avg. Option 4 Payout	\$73,430	Avg. Number of Investment Options Held	2.73

<sup>&</sup>lt;sup>1/</sup>2015 National Association of Government Defined Contribution Administrators' Public Sector Defined Contribution Plan survey of 129 government defined contribution plans.

