Callan

June 9, 2020

Pennsylvania State Employees' Retirement System – 457(b) Plan

First Quarter 2020

Executive Summary

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Callan

Market Environment

Sharp Drop in Global Equity Markets in 1Q 2020

No place to hide

- Equity markets around the globe collapsed starting in late February.
- S&P 500 Index was down 33% from peak (02/19/20) at worst point on 3/23/20; down -19.6% for the quarter. All countries and sectors were impacted.
- Fed cut interest rates to zero, commenced QE, instituted multiple facilities to backstop money markets, credit markets, and the economy.
- Congress passed fiscal stimulus (CARES) to carry the economy through the crisis.
- Fed's role is a backstop/facilitator/lender of last resort, but not a grantor; it expects to get paid back. Programs are designed to keep the Fed from losing money.
- Granting is the province of Congress, and fiscal policy.

Returns for Periods ended March 31, 2020

	1 Quarter	1 Year	5 Years	10 Years	25 Years
U.S. Equity	- Quartor	-i roai	- 0 10ars		<u> </u>
Russell 3000	-20.90	-9.13	5.77	10.15	8.81
S&P 500	-19.60	-6.98	6.73	10.53	8.85
Russell 2000	-30.61	-23.99	-0.25	6.90	7.57
Global ex-U.S. Equity					
MSCI World ex USA	-23.26	-14.89	-0.76	2.43	4.12
MSCI Emerging Markets	-23.60	-17.69	-0.36	0.69	
MSCI ACWI ex USA Small Cap	-29.01	-21.18	-0.81	2.79	4.57
Fixed Income					
Bloomberg Barclays Aggregate	3.15	8.93	3.36	3.88	5.49
90-day T-Bill	0.57	2.25	1.19	0.64	2.43
Bloomberg Barclays Long Gov/Credit	6.21	19.32	5.99	8.07	7.89
Bloomberg Barclays Global Agg ex-US	-2.68	0.74	2.04	1.39	3.77
Real Estate					
NCREIF Property	0.71	5.28	7.65	10.17	9.28
FTSE Nareit Equity	-27.30	-21.26	-0.35	7.40	9.24
Alternatives					
CS Hedge Fund	-8.98	-4.32	0.24	2.96	7.35
Cambridge Private Equity*	0.90	9.50	12.37	13.75	15.30
Bloomberg Commodity	-23.29	-22.31	-7.76	-6.74	0.56
Gold Spot Price	4.83	22.96	6.18	3.66	5.75
Inflation - CPI-U	0.44	1.54	1.80	1.72	2.15

^{*}Cambridge PE data through September 30, 2019. Source: Callan



CARES Act

Coronavirus Aid, Relief, and Economic Security Act

What You Need to Know

The second round of federal stimulus, known as the CARES Act, seeks to address the recent economic tremors stemming from the coronavirus pandemic. The legislation provided alternative forms of financial relief for individuals, including access to retirement savings.

Limited Access

- Access to liberalized loan and distribution availability is limited certain DC plan participants (i.e., "qualified individuals")
- Certain provisions are optional while others appear to be mandatory
- A number of provisions need further clarification/guidance

Increases Access to DC Plan Monies

- Provided access to deferrals while employed by the plan sponsor
- Permitted special distributions up to \$100k for qualified individuals
- Waived minimum required distributions for 2020

Liberalized Loan Options

- Loan maximums were expanded
- Loan repayments and defaults were delayed

COVID-19 Government DC Plans Survey Overview

The Coronavirus Aid, Relief, and Economic Security (CARES) Act was signed into law on March 27th, 2020. The Act, which aims to provide relief to both individuals and businesses negatively impacted by COVID-19, includes several provisions specifically related to retirement plans. For instance, the Act allows qualifying individuals to seek taxadvantaged financial relief through distributions and loans from their retirement savings accounts, including from defined contribution (DC) plans.

In early April, Callan administered a five-question "spot" survey to assess the actions that government plan sponsors have taken or are considering for their DC programs in the current economic environment and in light of recent legislation. Staff members, board members, and other individuals with responsibilities for employee benefit programs were invited to participate in the online survey.

The survey incorporates responses from 15 government DC plan sponsors, collected between April 6 and April 22. Because some of the answers provided may be of a sensitive nature, Callan did not ask for contact information.

The following pages highlight the results of the survey as well as observations that Callan's DC consultants have collected through working closely with government DC plan sponsors.

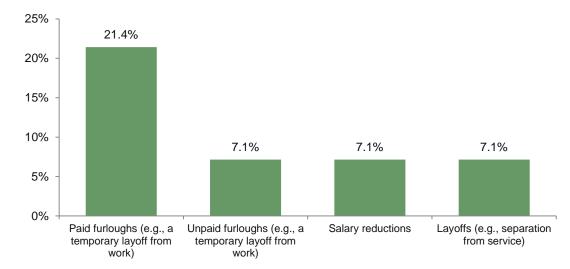


COVID-19 Government DC Plans Survey - Workforce Actions

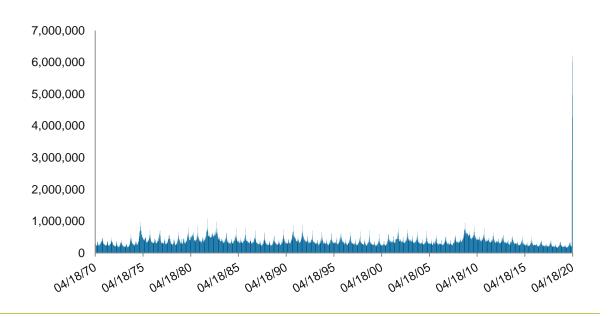
- The financial stress induced by the current economic environment has led many employers to pursue cost-cutting measures, including furloughs, salary reductions, and layoffs.
 - Between the weeks ending March 21, 2020, and April 18, 2020, an unprecedented 24 million Americans filed for unemployment insurance.
- Approximately a fifth of respondents indicated that they had furloughed, with pay, at least part of their workforce.
- Other less common measures respondents have taken include unpaid furloughs (7%), salary reductions (7%), and layoffs (7%).

28.6% took at least one **action** with respect to their **workforce** in response to the COVID-19 pandemic

Workforce Actions Taken in Wake of COVID-19 Pandemic*



Initial Weekly Unemployment Claims**



^{**}Source: U.S. Employment and Training Administration

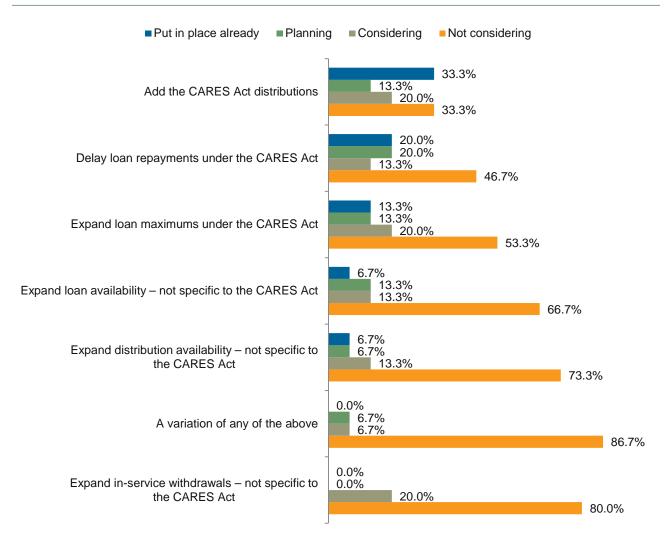


^{*}Multiple responses were allowed

COVID-19 Government DC Plans Survey - Plan Actions

- The CARES Act includes several provisions specifically related to retirement plans. Namely, DC plan sponsors have the option to implement certain provisions, including:
 - Distribution provisions: allowing participants to take coronavirus-related distributions (CRD's)
- Loan provisions: expanding loan maximums and allowing participants to delay loan repayments
- A third of respondents indicated that they had already added the CARES Act distributions, with another third either planning to or considering doing so.
- About half of respondents indicated that they would at least consider delaying loan repayments and expanding loan maximums under the CARES Act.

What actions have you taken or are you considering for your DC plan?

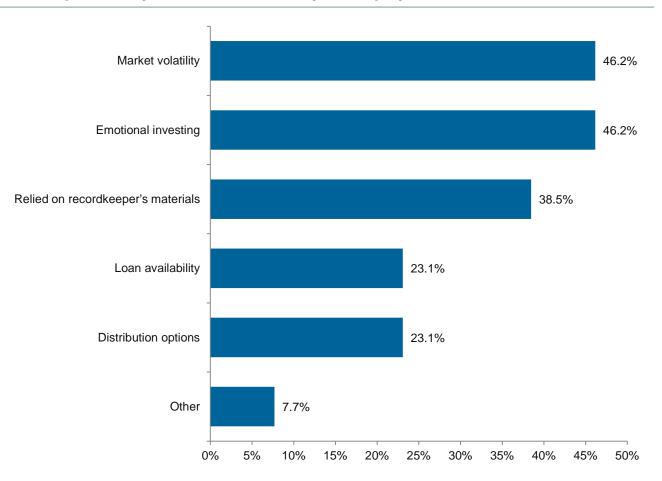




COVID-19 Government DC Plans Survey - Participant Communication

- Given recent market volatility, plan sponsors and recordkeepers have sought to provide additional communications to participants.
- These communications entail various themes and are often intended to encourage participants to "stay the course".
- Nearly half of surveyed plan sponsors indicated that they had communicated with participants regarding market volatility (46%) and emotional investing (46%).
- A slightly smaller share (39%) said they had relied on communication materials provided by their recordkeeper or had provided their own communications focused on loan availability (23%) or distribution options (23%).

What topics have you communicated to your employees?*





^{*}Percentages among those plan sponsors who have taken steps to communicate with employees. Multiple responses were allowed.

DC Plans and the Coronavirus

Issues for sponsors to monitor regarding their recordkeepers

DC plan sponsors should examine how the recent market volatility stemming from the pandemic may impact their recordkeepers in the following areas:

- Internet availability: High-traffic events have caused issues for participants trying to access information or make transactions;
 sponsors may want to track participant statistics and document the review.
- Call center staffing: Sponsors should understand how recordkeepers will support call center operations in the event they need to quarantine staff or locations.
- Paper check-cutting and statement production: Both functions require in-person interaction, so plan sponsors may wish to communicate to participants that they may expect delays and that electronic options may streamline the process.
- Payroll processing: If payroll contributions are held up, the timing to fund payroll may become an issue. Sponsors may wish to include extra resources for this task.
- Participant communications: Plan sponsors may wish to preemptively identify communication needs and opportunities for participants visiting the website, experiencing longer call volumes, or managing distribution and loan checks.
- Onsite education or adviser sessions: In-person, face-to-face outreach may need to be canceled or postponed.
- Cybersecurity: Work-from-home arrangements raise novel cybersecurity issues. This may be a time to consider hardening cybersecurity defenses.
- Service-level guarantees: Recordkeepers may include service-level guarantees in their agreements. However, these contracts typically include a force majeure provision that limits their responsibility for "acts of god." Sponsors should monitor call center and online hits to understand how participants may be impacted by constrained resources.



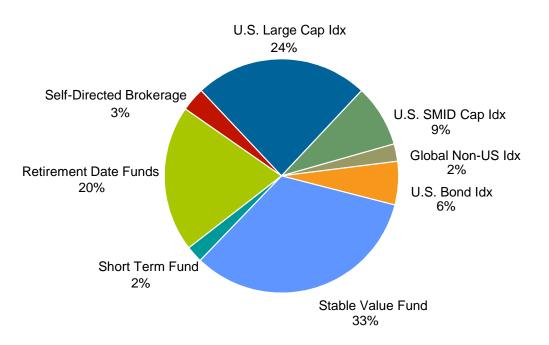
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PA SERS 457(b) Plan Performance Review

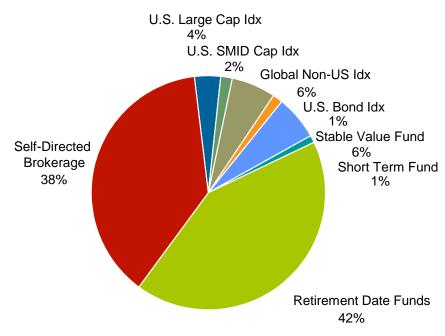
457(b) Plan Asset Allocation & Contributions

As of March 31, 2020

Asset Allocation



Contributions



Asset Allocation

As of March 31, 2020

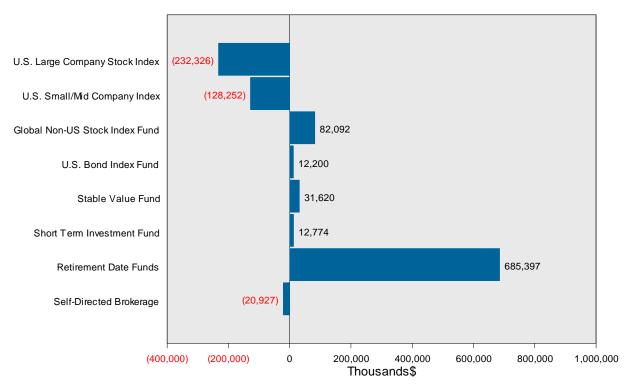
	March 31, 2020				December	December 31, 2019		
	Market Value % of Total		Net New Inv. Inv. Return		Market Value	% of Total		
	\$(000)	Weight	\$(000)	\$(000)	\$(000)	<u>Weigh</u> t		
SERS Retirement Date Funds	\$685,397	20.17%	\$801,533	\$(116,136)	-	-		
SERS Post Retirement Fund	225,405	6.63%	246,074	(20,668)	-	-		
SERS 2025 Retirement Fund	124,723	3.67%	142,177	(17,455)	-	-		
SERS 2030 Retirement Fund	112,491	3.31%	133,214	(20,723)	-	-		
SERS 2035 Retirement Fund	97,955	2.88%	119,671	(21,716)	-	-		
SERS 2040 Retirement Fund	54,594	1.61%	69,019	(14,426)	-	-		
SERS 2045 Retirement Fund	38,734	1.14%	49,891	(11,156)	-	_		
SERS 2050 Retirement Fund	22,675	0.67%	29,700	(7,025)	_	_		
SERS 2055 Retirement Fund	5,794	0.17%	7,875	(2,081)	_	_		
SERS 2060 Retirement Fund	2,184	0.06%	2,920	(736)	_	_		
SERS 2065 Retirement Fund	842	0.02%	994	(151)	_	_		
SEIVO 2003 Nethement i did	042	0.0270	334	(131)	_	_		
SERS Risk-Based Funds	\$0	0.00%	\$(742,732)	\$2,018	\$740,714	19.16%		
SERS 60/40 Balanced Fund	0	0.00%	(278,107)	836	277,271	7.17%		
SERS Conservative Portfolio Fu	_	0.00%	(85,990)	265	85,725	2.22%		
SERS Moderate Portfolio Fund	0	0.00%	(199,564)	563	199,002	5.15%		
SERS Aggressive Portfolio Fund	-	0.00%	(179,071)	355	178,716	4.62%		
SENS Aggressive Fortrollo i dila	U	0.0078	(179,071)	333	170,710	4.02 /6		
SERS U.S. Equity	\$1,108,114	32.61%	\$(44,364)	\$(316,213)	\$1,468,691	37.99%		
SERS U.S. Large Company Inde		23.99%	(31,070)	(201,256)	1,047,632	27.10%		
SERS U.S. SMID Company Inde		8.62%	(13,294)	(114,957)	421,060	10.89%		
SERS International Equity	\$82,092	2.42%	\$(144,160)	¢57.067	\$169,185	4.38%		
SERS International Equity				\$57,067				
SERS Intl Company Idx Fund	0	0.00%	(169,339)	153	169,185	4.38%		
SERS Global Non-US IdxFund	82,092	2.42%	25,179	56,914	-	-		
SERS Fixed Income	\$1,410,360	41.50%	\$43,810	\$12,783	\$1,353,767	35.02%		
SERS Short Term Investment Fu		2.28%	12,544	230	64,828	1.68%		
SERS Stable Value Fund	1,128,887	33.22%	25,179	6,441	1,097,267	28.38%		
SERS U.S. Bond Index Fund	203,871	6.00%	6,088	6,112	191,671	4.96%		
	203,071	0.0070	0,000	0,112	191,071	4.9070		
Self-Directed Brokerage								
Self-Directed Brokerage Account	112,618	3.31%	184,556	(205,483)	133,545	3.45%		
SERS 457(b) Total Fund	\$3,398,582	100.0%	\$98,643	\$(565,964)	\$3,865,902	100.0%		



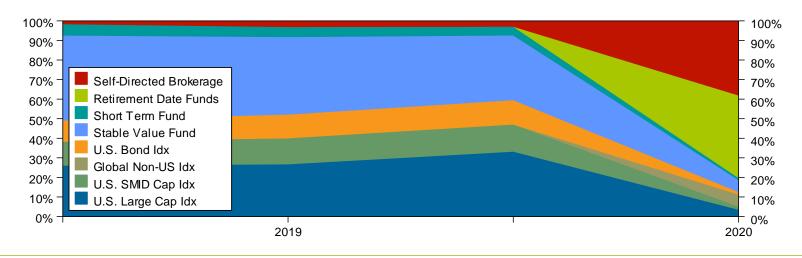
Changes in Market Values and Contributions

As of March 31, 2020

- The chart to the right shows the net change in fund values across the various investment options for the quarter. The change in value for each fund is the result of:
 - 1. Investment returns;
 - Participant contributions, employer match, distributions, withdrawals; and
 - 3. Transfers between funds by participants.



Historical Allocation of Contributions





/larch 31, 2020	Last	Last	Last 3	Last 5	Last 7	
	Quarter	Year	years	Years	, Years	
Net Performance						_
Retirement Date Funds						
SERS Post Retirement Fund	(7.73%)	(0.02%)	3.36%	3.20%	3.82%	
BlackRock Post Retirement Index	(7.78%)	(0.04%)	3.33%	3.17%	3.79%	
Callan Tgt Date Ret Inc	(7.47%)	(0.82%)	2.57%	2.60%	3.28%	
SERS 2025 Retirement Fund	(11.32%)	(2.98%)	3.16%	3.38%	4.58%	
BlackRock 2025 Index	(11.37%)	(3.02%)	3.08%	3.31%	4.51%	
Callan Target Date 2025	(12.44%)	(4.33%)	2.59%	3.12%	4.76%	
SERS 2030 Retirement Fund	(14.36%)	(5.53%)	2.68%	3.24%	4.69%	
BlackRock 2030 Index	(14.41%)	(5.63%)	2.59%	3.14%	4.59%	
Callan Target Date 2030	(14.76%)	(6.17%)	2.36%	3.16%	5.06%	
SERS 2035 Retirement Fund	(17.11%)	(7.91%)	2.24%	3.12%	4.78%	
BlackRock 2035 Index	(17.16%)	(7.99%)	2.12%	2.99%	4.66%	
Callan Target Date 2035	(17.10%)	(8.23%)	1.96%	3.03%	5.14%	
SERS 2040 Retirement Fund	(19.61%)	(10.07%)	1.78%	2.95%	4.82%	
BlackRock 2040 Index	(19.65%)	(10.16%)	1.66%	2.81%	4.69%	
Callan Target Date 2040	(18.86%)	(9.75%)	1.62%	2.92%	5.18%	
SERS 2045 Retirement Fund	(21.29%)	(11.58%)	1.42%	2.79%	4.87%	
BlackRock 2045 Index	(21.34%)	(11.72%)	1.26%	2.62%	4.72%	
Callan Target Date 2045	(20.14%)	(10.81%)	1.40%	2.84%	5.14%	
SERS 2050 Retirement Fund	(22.06%)	(12.30%)	1.22%	2.69%	4.90%	
BlackRock 2050 Index	(22.09%)	(12.40%)	1.08%	2.53%	4.77%	
Callan Target Date 2050	(20.41%)	(11.10%)	1.20%	2.71%	5.16%	
SERS 2055 Retirement Fund	(22.11%)	(12.35%)	1.20%	2.66%	4.99%	
BlackRock 2055 Index	(22.19%)	(12.48%)	1.05%	2.51%	4.85%	
Callan Target Date 2055	(20.64%)	(11.46%)	1.08%	2.75%	5.28%	
SERS 2060 Retirement Fund	(22.11%)	(12.35%)	1.18%	2.66%	-	
BlackRock 2060 Index	(22.18%)	(12.47%)	1.05%	2.55%	-	
Callan Target Date 2060	(20.66%)	(11.35%)	1.24%	3.01%	5.80%	
5	/	(/				Note: SERS Funds are the top fun
SERS 2065 Retirement Fund	(22.12%)	-	-	-	-	each grouping followed by each fu
BlackRock 2065 Index	(22.18%)	-	-	-	-	respective benchmark and mediar
Callan Target Date 2065	(20.71%)	(10.25%)	-	-	-	*Target Date funds replaced risk-b funds in 1Q20.



As of March 31, 2020

	Last 10	Last 15	Last 20	
	Years	Years	Years	
Net Performance				
Retirement Date Funds				
SERS Post Retirement Fund	4.99%	-	-	
BlackRock Post Retirement Index	4.96%	4.94%	5.05%	
Callan Tgt Date Ret Inc	4.28%	4.05%	3.96%	
SERS 2025 Retirement Fund	5.82%	-	-	
BlackRock 2025 Index	5.76%	5.19%	4.00%	
Callan Target Date 2025	6.13%	5.16%	-	
SERS 2030 Retirement Fund	5.99%	-	-	
BlackRock 2030 Index	5.90%	5.22%	3.82%	
Callan Target Date 2030	6.45%	5.15%	3.27%	
SERS 2035 Retirement Fund	6.14%	-	-	
BlackRock 2035 Index	6.02%	5.22%	3.64%	
Callan Target Date 2035	6.53%	5.38%	-	
SERS 2040 Retirement Fund	6.22%	-	-	
BlackRock 2040 Index	6.10%	5.20%	3.43%	
Callan Target Date 2040	6.64%	5.32%	2.60%	
SERS 2045 Retirement Fund	6.30%	-	-	
BlackRock 2045 Index	6.17%	5.18%	3.32%	
Callan Target Date 2045	6.51%	5.81%	-	
SERS 2050 Retirement Fund	6.40%	-	-	
BlackRock 2050 Index	6.26%	5.43%	3.54%	
Callan Target Date 2050	6.70%	-	-	
Callan Target Date 2055	6.91%	-	-	

Note: SERS Funds are the top fund in each grouping followed by each fund's respective benchmark and median peer.

Funds not listed do not have longer term history.

^{*}Target Date funds replaced risk-based funds in 1Q20.



As of March 31, 2020

			Last	Last	Last
	Last	Last	3	5	7
	Quarter	Year	Years	Years	Years
Net Performance					
Domestic Equity					
SERS U.S. Large Company Index	(19.59%)	(6.97%)	5.11%	6.74%	9.63%
S&P 500 Index	(19.60%)	(6.98%)	5.10%	6.73%	9.62%
Callan Lg Cap Broad MF	(19.15%)	(7.01%)	4.67%	5.95%	8.96%
SERS SMID Company Index	(28.02%)	(20.47%)	(1.85%)	1.06%	5.59%
Dow Jones US Completion	(28.01%)	(20.61%)	(2.02%)	0.87%	5.40%
Callan SMID Broad MFs	(25.28%)	(19.07%)	1.00%	2.02%	5.28%
International Equity					
SERS Global Non-US Index	(23.74%)	(16.00%)	(1.90%)	(0.51%)	1.17%
MSCI ACWI ex US	(23.36%)	(15.57%)	(1.96%)	(0.64%)	1.06%
Callan Non US Equity MFs	(22.82%)	(14.66%)	(2.03%)	(0.79%)	1.58%
Domestic Fixed Income					
SERS Short Term Investment Fund	0.40%	2.10%	1.88%	1.32%	0.99%
3-month Treasury Bill	0.57%	2.25%	1.83%	1.19%	0.86%
Callan Cash Database(1)	0.36%	2.16%	1.98%	1.42%	1.11%
SERS Stable Value Fund	0.63%	2.60%	2.32%	2.20%	2.24%
3-month Treasury Bill	0.57%	2.25%	1.83%	1.19%	0.86%
Callan Stable Value	0.61%	2.55%	2.34%	2.20%	2.09%
SERS U.S. Bond Index Fund	3.25%	9.02%	4.85%	3.35%	3.16%
Blmbg Aggregate	3.15%	8.93%	4.82%	3.36%	3.19%
Callan Core Bond MFs	1.54%	7.36%	4.27%	3.19%	2.98%

^{*}The Global Non-U.S. Stock Index Fund replaced the International Company Stock Index Fund in 1Q20.



⁽¹⁾ Callan Cash Database includes STIF, enhanced cash, and money market funds.

As of March 31, 2020

	Last	Last	Last	
	10	15	20	
	Years	Years	Years	
Net Performance				
Domestic Equity				
SERS U.S. Large Company Index	10.55%	7.62%	4.84%	
S&P 500 Index	10.53%	7.58%	4.79%	
Callan Lg Cap Broad MF	9.61%	7.34%	4.63%	
SERS SMID Company Index	8.26%	7.22%	5.26%	
Dow Jones US Completion	8.06%	7.02%	4.88%	
Callan SMID Broad MFs	7.98%	7.28%	6.26%	
International Equity				
SERS Global Non-US Index	2.20%	-	-	
MSCI ACWI ex US	2.05%	3.39%	-	
Callan Non US Equity MFs	2.87%	3.35%	2.43%	
Domestic Fixed Income				
SERS Short Term Investment Fund	0.76%	1.55%	-	
3-month Treasury Bill	0.64%	1.39%	1.74%	
Callan Cash Database(1)	0.92%	1.76%	2.10%	
SERS Stable Value Fund	2.57%	3.27%	-	
3-month Treasury Bill	0.64%	1.39%	1.74%	
Callan Stable Value	2.30%	2.91%	3.63%	
SERS U.S. Bond Index Fund	3.85%	4.37%	5.04%	
Blmbg Aggregate	3.88%	4.40%	5.08%	
Callan Core Bond MFs	3.93%	4.51%	4.97%	

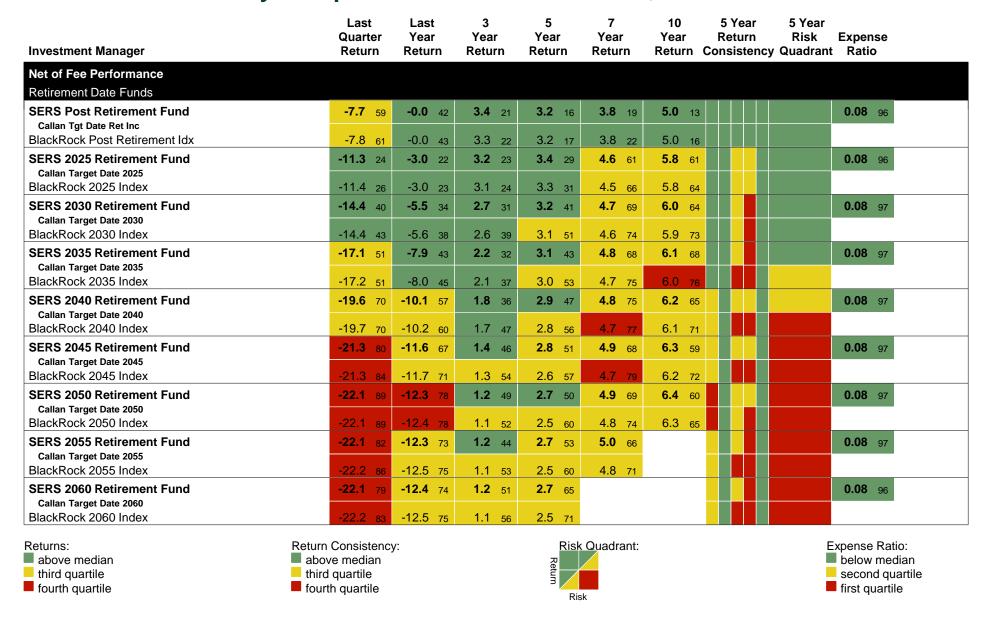
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^{*}Funds not listed do not have longer term history.

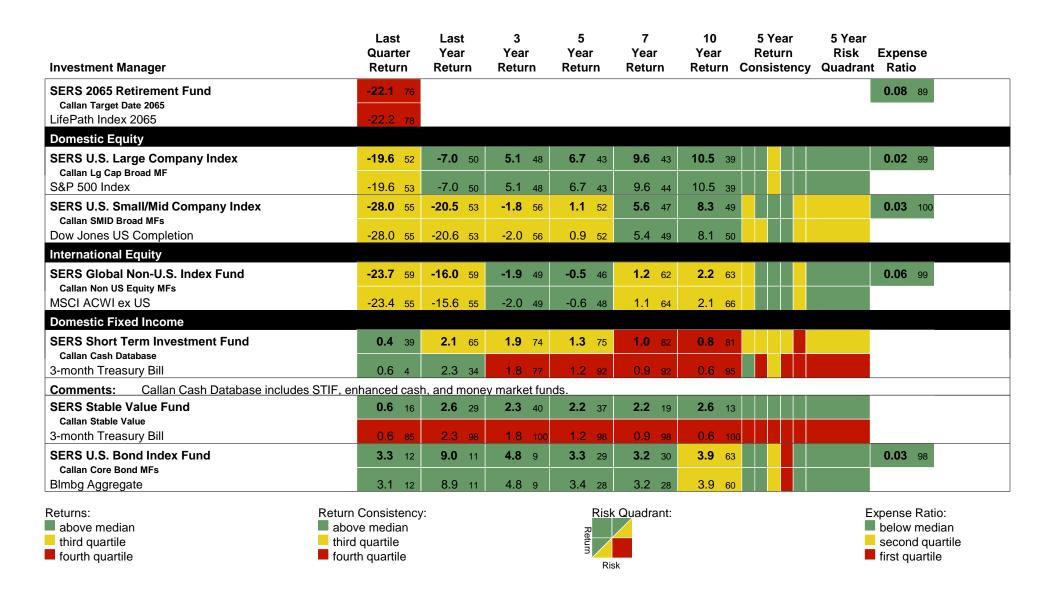
Performance Summary & Expense Ratios as of March 31, 2020



Note: For returns, each SERS Fund and corresponding benchmark return are shown with their respective peer group rankings. For returns, lower peer group rankings are more desirable (e.g. 25th percentile equates to top quartile performance). Expense Ratio: Higher peer group rankings are more desirable (e.g. 75th percentile equates to bottom quartile/cheapest fees).



Performance Summary & Expense Ratios as of March 31, 2020

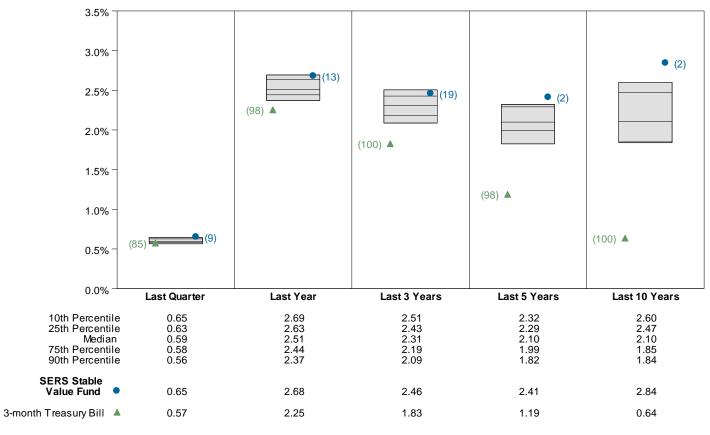


Note: For returns, each SERS Fund and corresponding benchmark return are shown with their respective peer group rankings. For returns, lower peer group rankings are more desirable (e.g. 25th percentile equates to top quartile performance). Expense Ratio: Higher peer group rankings are more desirable (e.g. 75th percentile equates to bottom quartile/cheapest fees).



Stable Value Fund as of March 31, 2020

Performance vs Callan Stable Value CT (Gross)



Wrap Provider Exposure*								
Contract Issuer Portfolio Average Fee Moody's Rating S&P Rating Fitch Rat								
Nationwide Life Insurance	19.92%	0.16%	A1	A+	NR			
Transamerica	19.81%	0.16%	A1	A+	A+			
Prudential Insurance Co.	14.95%	0.16%	Aa3	AA-	AA-			
RGA	14.94%	0.16%	A1	AA-	Α			
Pacific Life Insurance Co.	12.46%	0.16%	A1	AA-	AA-			
State Street Bank	12.45%	0.16%	Aa2	AA-	AA+			
	94.54%	0.15%						





457(b) Plan Investment Structure

Lineup Mapped to Callan's Clean Sheet

Conservative **Tier I: Asset Allocation Tier II: Passive Core Options Tier II: Active Core Options Tier III: Specialty Options Target Date Funds Capital Preservation** Short Term Investment Fund Stable Value Fund **Core Fixed Income** U.S. Bond Index Fund **Large-Cap US Equity** U.S. Large Co. Stock Index Fund **Non-US Equity** Global Non-U.S. Stock Fund **Small/Mid-Cap US Equity** Self-Directed Brokerage Window U.S. Small/Mid Co. Stock Index Fund Aggressive

Defined Contribution and Deferred Compensation Projects for 2020

- Plan Administration and Investment Management Fee Evaluation Study
- Target Date Fund Suitability Analysis
- Investment Policy Statement Review

Callan

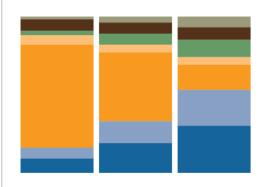
Appendix – Callan Update

Published Research Highlights from 1Q20

2020 DC Trends Survey



Callan's 2020-2029 Capital Market Assumptions



How DC Plans Can Harness DC Plan Data for Better Outcomes



An Introduction to Our New Hedge Fund Peer Group



Recent Blog Posts

Local
Presence for
Multinational
Managers in
China

Fanglue Zhou

Trigger Funds: Here's What You Need to Know

Catherine Beard

Plus our blog contains a wide array of posts related to the pandemic

Additional Reading

Private Equity Trends quarterly newsletter
Active vs. Passive quarterly charts
Capital Market Review quarterly newsletter
Monthly Updates to the Periodic Table
Market Pulse Flipbook quarterly markets update
Real Assets Reporter quarterly newsletter

Callan Institute Events

Upcoming Conferences, Workshops, and Webinars

Upcoming Webinars

Hedge Fund Overview

May 21, 2020

China Update

July 8, 2020

Register at callan.com/callan-institute-events

"Research, education, and dialogue are more important than ever in these extraordinary times, which is why I'm pleased to announce that we are adding more webinars, and we plan to expand our events to include roundtables and other interactive digital offerings."

Barb Gerraty
Director, Callan Institute



On-Demand Webinars

Visit our website for On-Demand webinar options at https://www.callan.com/on-demand-webinars/

Our most recent webinar covered strategies in alternatives.

"Callan College"

Introduction to Investments for Institutional Investors

This program familiarizes institutional investor trustees and staff and asset management advisers with basic investment theory, terminology, and practices. It lasts one-and-a-half days and is designed for individuals with less than two years of experience with asset-management oversight and/or support responsibilities.

Alternative Investments for Institutional Investors

Alternative investments like private equity, hedge funds, and real estate can play a key role in any portfolio. In this one-day session, Callan experts will provide instruction about the importance of allocations to alternatives, and how to integrate, evaluate, and monitor them.

Program dates and registration can be found at callan.com/callan-institute-events

Callan Updates

Firm updates by the numbers, as of March 31, 2020

Total Associates: 193

Ownership

- 100% employees

Broadly distributed across more than 95 shareholders

Leadership Changes

No executive additions or departures

No leadership changes this quarter

Total General and Fund Sponsor Consultants: more than 45

Total Specialty and Research Consultants: more than 60

Total CFA/CAIA/FRMs: more than 55

Total Fund Sponsor Clients: more than 400

AUA: more than \$2.5 trillion

"We've been taking precautions to combat the spread of the virus and to safeguard the health of our employees, our clients, and the community at large. Our hearts go out to those directly affected by the virus, and to those whose lives are being disrupted by the downstream social and economic effects."

- CEO & Chief Research Officer Greg Allen on Callan's COVID-19 Response

