
JANUARY 27, 2020

AGENDA ITEM 4
INFORMATION ITEM

CALIFORNIA SECURE CHOICE RETIREMENT SAVINGS INVESTMENT BOARD

Quarterly Investment Performance Review

This item will be presented orally at the meeting.

Attachment

Investment Performance Report for the Quarter Ending December 31, 2019

CalSavers

January 27, 2020

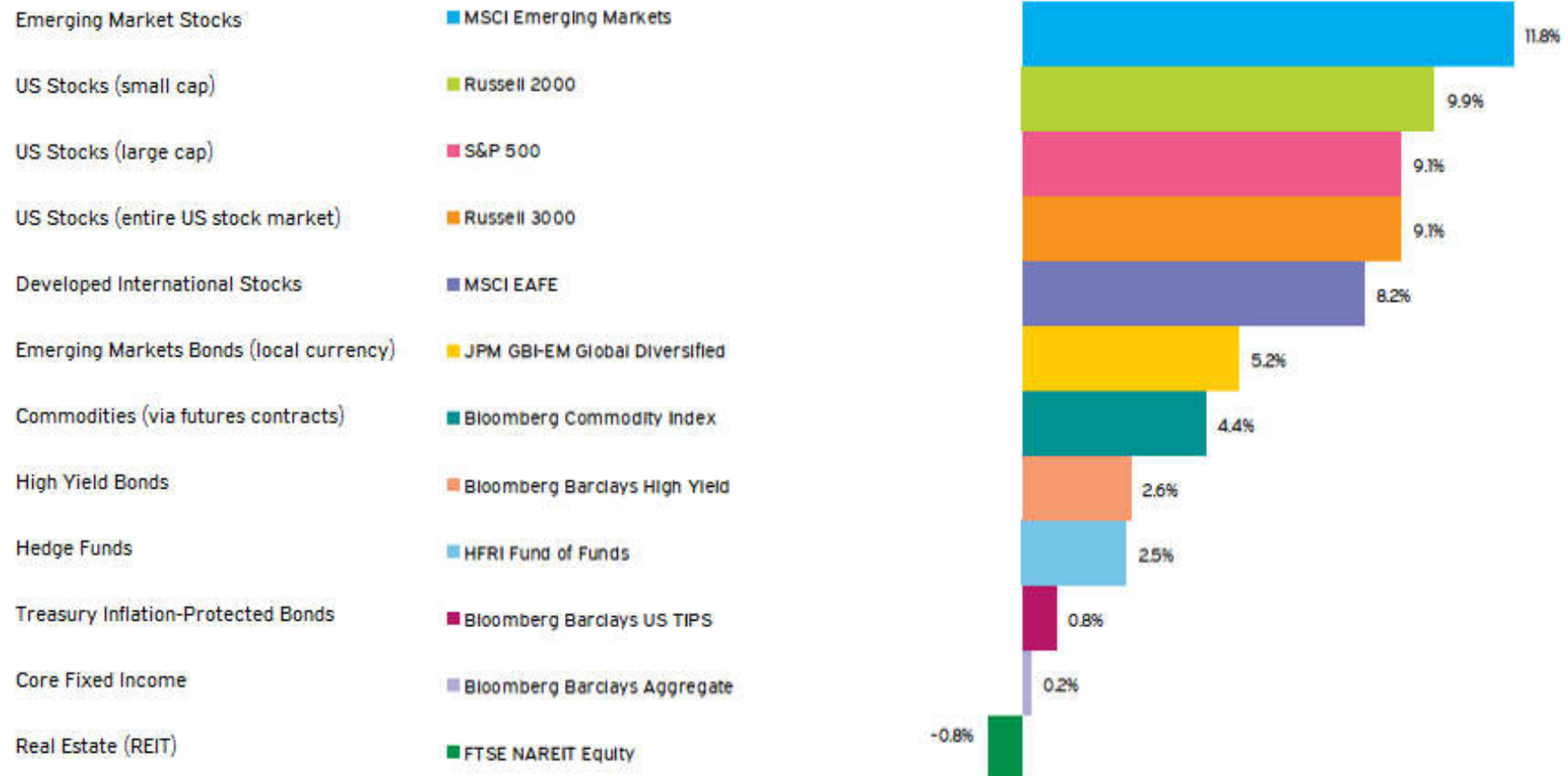
Quarterly Review As of December 31, 2019

1. Executive Summary
2. Appendix

CalSavers Program Overview – December 2019

- As of December 31, 2019, total participant assets in the program reached \$1.42 million, excluding seed money. With seed money included, total assets were at \$1.51 million.
- The fourth quarter ended with very positive results for risk-oriented (equity) assets, particularly emerging markets.
- Risk-averse assets as represented by investment grade bonds posted positive to flat results.
- FTSE NAREIT Equity, which measures performance of the real estate market, was one of the few investment asset class proxies where a negative return was reported, down -0.8% for the quarter.
- The CalSavers program continued to grow at a significant pace – details provided on following pages.

World Markets Fourth Quarter of 2019¹

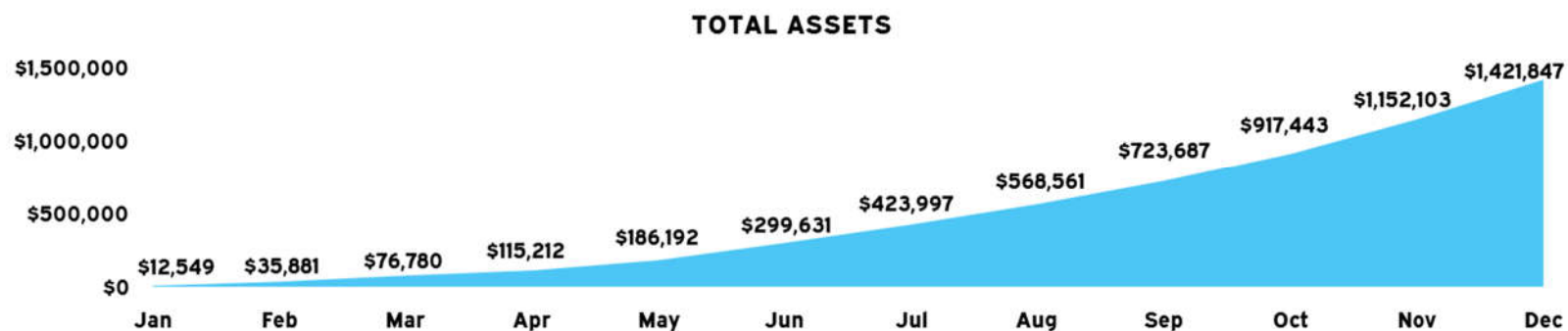


¹ Source: Investorforce

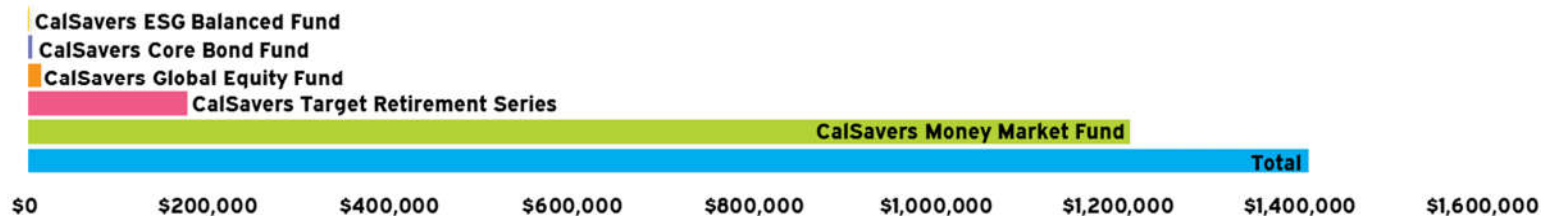
Capital Markets Outlook

- December capped off a historically strong year for risk-oriented markets.
 - Full calendar year returns for the global equity markets ended up approximately in the 18-32% range.
- Broad investment grade bonds produced calendar year returns in the high single digits whereas long US Treasury bonds generated a return of nearly 15%.
- In 2019, interest rates declined by a material margin as the Federal Reserve lowered rates three times.
- We anticipate long term, forward-looking returns will be lower as of early-2020, compared to early-2019 capital market assumptions.
- Relative to historical data:
 - US equity markets remain expensive, non-US equity remain reasonably valued.
 - US credit and emerging markets bond spreads remain reasonably valued.
 - US high yield becoming more expensive.
- Value and small cap equities remain more attractive from a valuation perspective, relative to growth and large cap.
- Implied equity volatility ended the year at a relatively low level (as measured by VIX index).

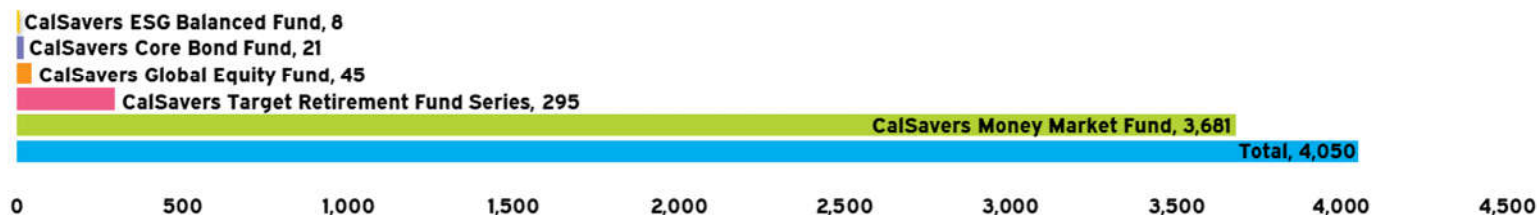
Assets and Cash Flow Review



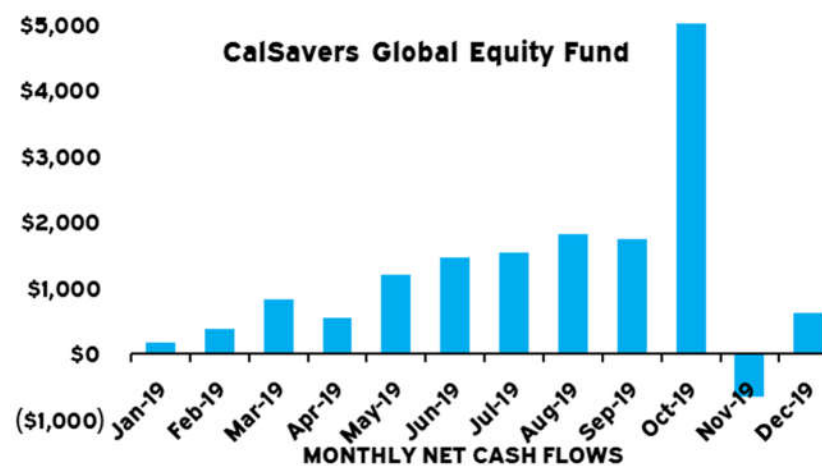
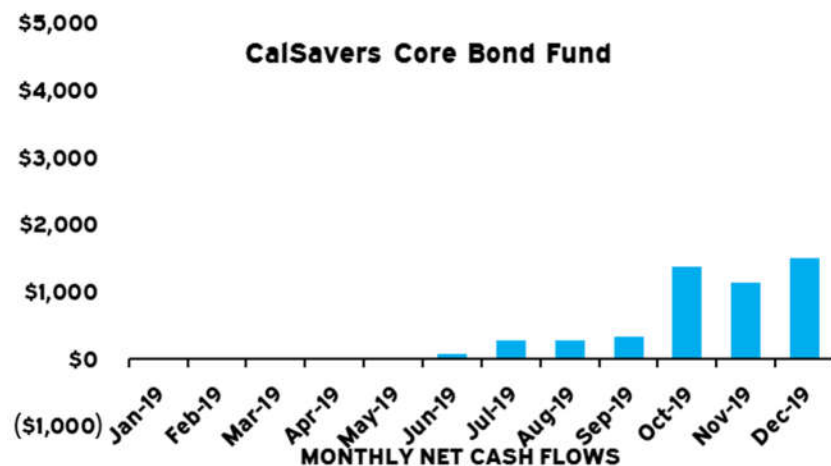
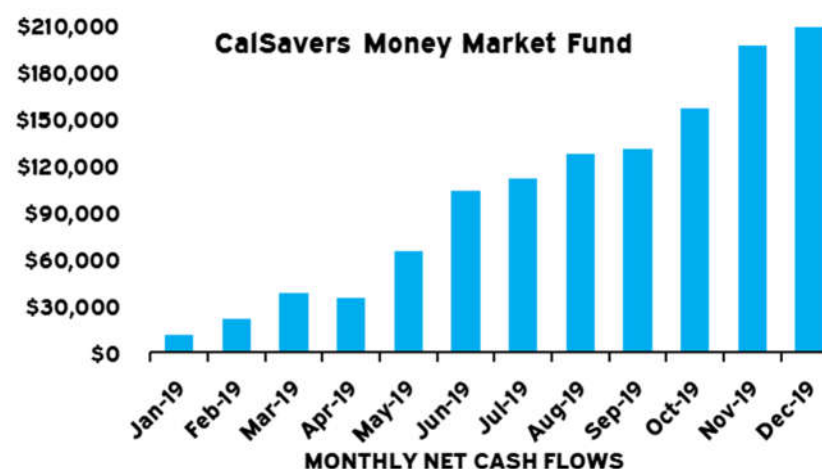
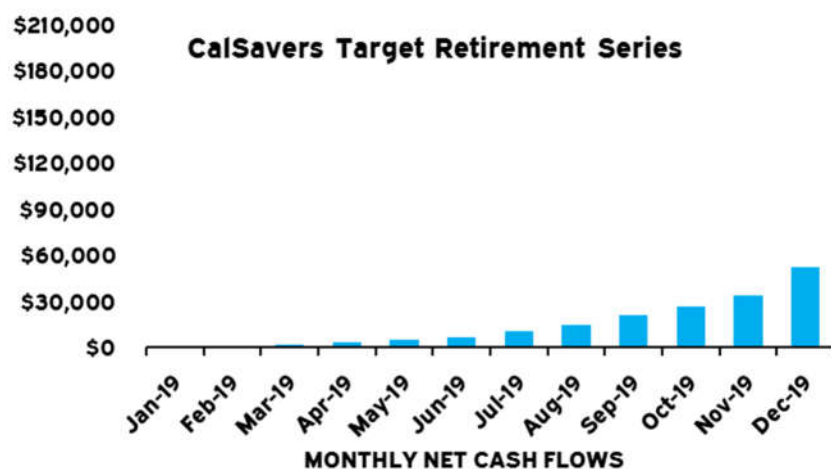
Cumulative Net Cash Flows for YTD through December 31, 2019



Number of Accounts (Participants) Breakdown as of December 31, 2019



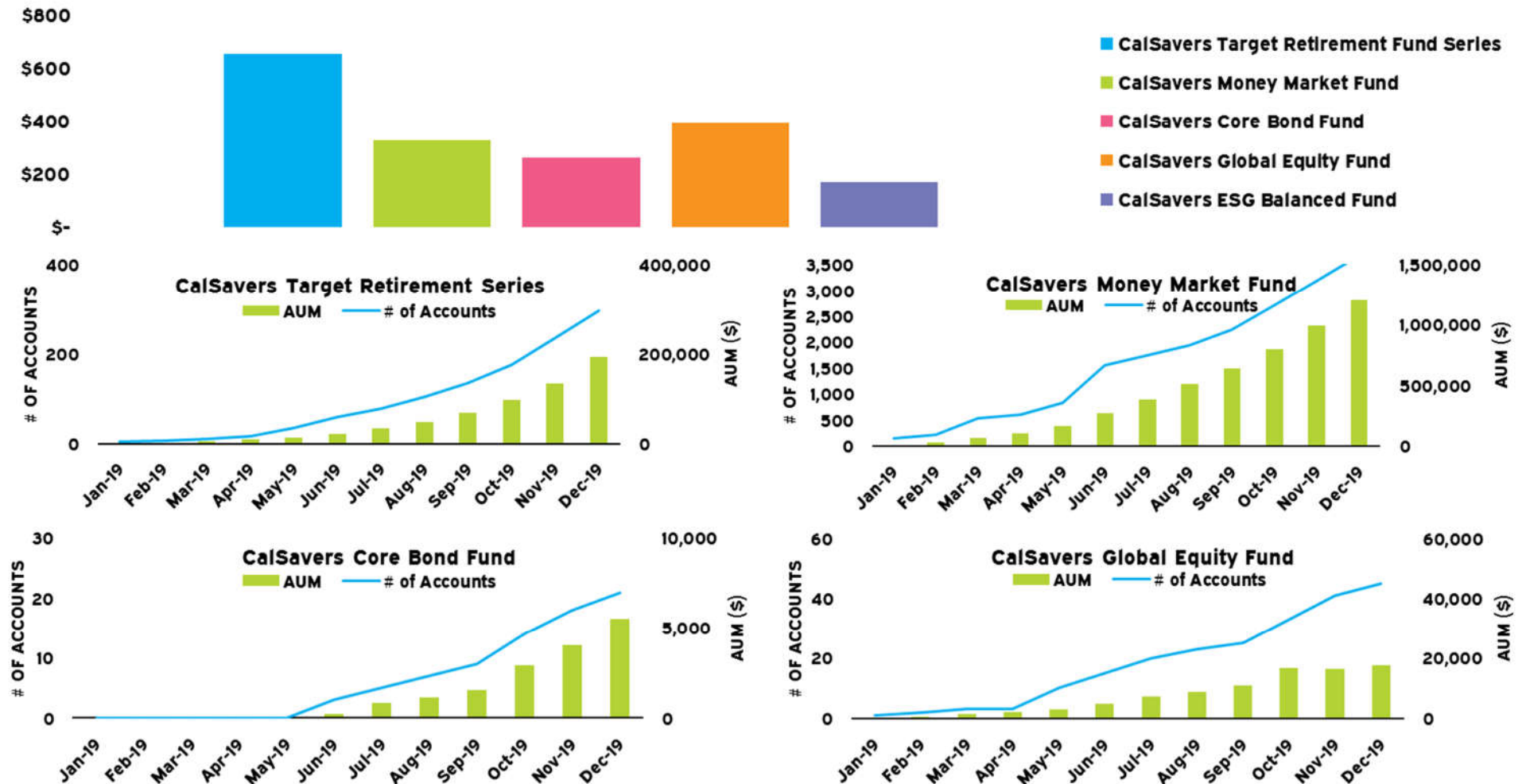
Assets and Cash Flow Review (Continued)



- Through Q4 2019, the CalSavers Sustainable Balanced Fund experienced net inflows of \$1,337.

Additional Data – Number of Participants & Asset Growth

Average Balance per Fund Type as of December 31, 2019



Performance Summary

- Periods reviewed in this document: quarter to date period of October-December (QTD), and the year to date period of January-December (YTD).
- Program fees (80 basis points) are applied on an annualized basis.
- Program options performed in line with expectations during QTD and YTD periods:
 - Target Retirement Funds with dates further in the future had stronger returns relative to near-dated funds, due to more equity exposure.
 - Global Equity Fund had very strong performance for QTD and YTD, and was within an expected range relative to the broad market benchmark.
 - Aggregate Bond index fund produced a flat return during the “risk-on” QTD period, but posted a strong return for YTD as the influx of cash into bonds with the mild slowdown in economic growth and policy easing helped to drive up results.
 - Sustainable Balanced Fund posted positive results and kept pace with its benchmark for QTD, while the equity side of the portfolio helped to generate positive excess return for YTD.
- Meketa will continue to monitor the investments of the program, and has no recommendations at this time.

Executive Summary

CalSavers Performance Summary ^{1,2,3} As of December 31, 2019							
Tier I	QTD (%)	YTD (%)	Tier I	QTD (%)	YTD (%)	Tier II	QTD (%) YTD (%)
State Street Target Ret Fund			State Street Target Ret 2040 Fund			State Street Agg Bond Index Fund	
Program Level	3.0	13.1	Program Level	6.8	23.7	Program Level	-0.1 7.6
Mutual Fund	3.2	14.0	Mutual Fund	7.0	24.7	Mutual Fund	0.1 8.6
Benchmark	3.3	14.0	Benchmark	7.1	24.7	Benchmark	0.2 8.7
State Street Target Ret 2015 Fund			State Street Target Ret 2045 Fund			Global Equity Fund	
Program Level	3.1	13.7	Program Level	7.2	24.5	Program Level	8.8 27.8
Mutual Fund	3.2	14.5	Mutual Fund	7.4	25.5	State Street Equity 500 Index Fund	9.0 31.4
Benchmark	3.3	14.5	Benchmark	7.5	25.6	State Street GI All Cap Equity ex-US Index Fund ⁴	8.9 21.5
State Street Target Ret 2020 Fund			State Street Target Ret 2050 Fund			Benchmark	9.1 26.7
Program Level	4.0	16.7	Program Level	7.4	24.8	Tier III	
Mutual Fund	4.3	17.5	Mutual Fund	7.6	25.8	State Street Instl US Gov MM Fund	
Benchmark	4.4	17.7	Benchmark	7.7	25.9	Program Level	0.3 1.3
State Street Target Ret 2025 Fund			State Street Target Ret 2055 Fund			Mutual Fund	0.4 2.2
Program Level	5.0	19.7	Program Level	7.3	24.7	Benchmark	0.4 2.1
Mutual Fund	5.2	20.6	Mutual Fund	7.6	25.7	BNY Mellon Sustainable Balanced Fund ⁵	
Benchmark	5.3	20.7	Benchmark	7.7	25.9	Program Level	5.3 7.0
State Street Target Ret 2030 Fund			State Street Target Ret 2060 Fund			Mutual Fund	5.6 7.3
Program Level	5.7	21.6	Program Level	7.5	24.9	Benchmark	5.4 6.3
Mutual Fund	6.0	22.5	Mutual Fund	7.6	25.9		
Benchmark	6.0	22.6	Benchmark	7.7	25.9		
State Street Target Ret 2035 Fund			State Street Target Ret 2065 Fund				
Program Level	6.2	22.6	Program Level	7.5	24.9		
Mutual Fund	6.5	23.6	Mutual Fund	7.6	25.9		
Benchmark	6.6	23.8	Benchmark	7.7	25.9		

¹ All performance data provided by Ascensus, BNY Mellon, State Street.

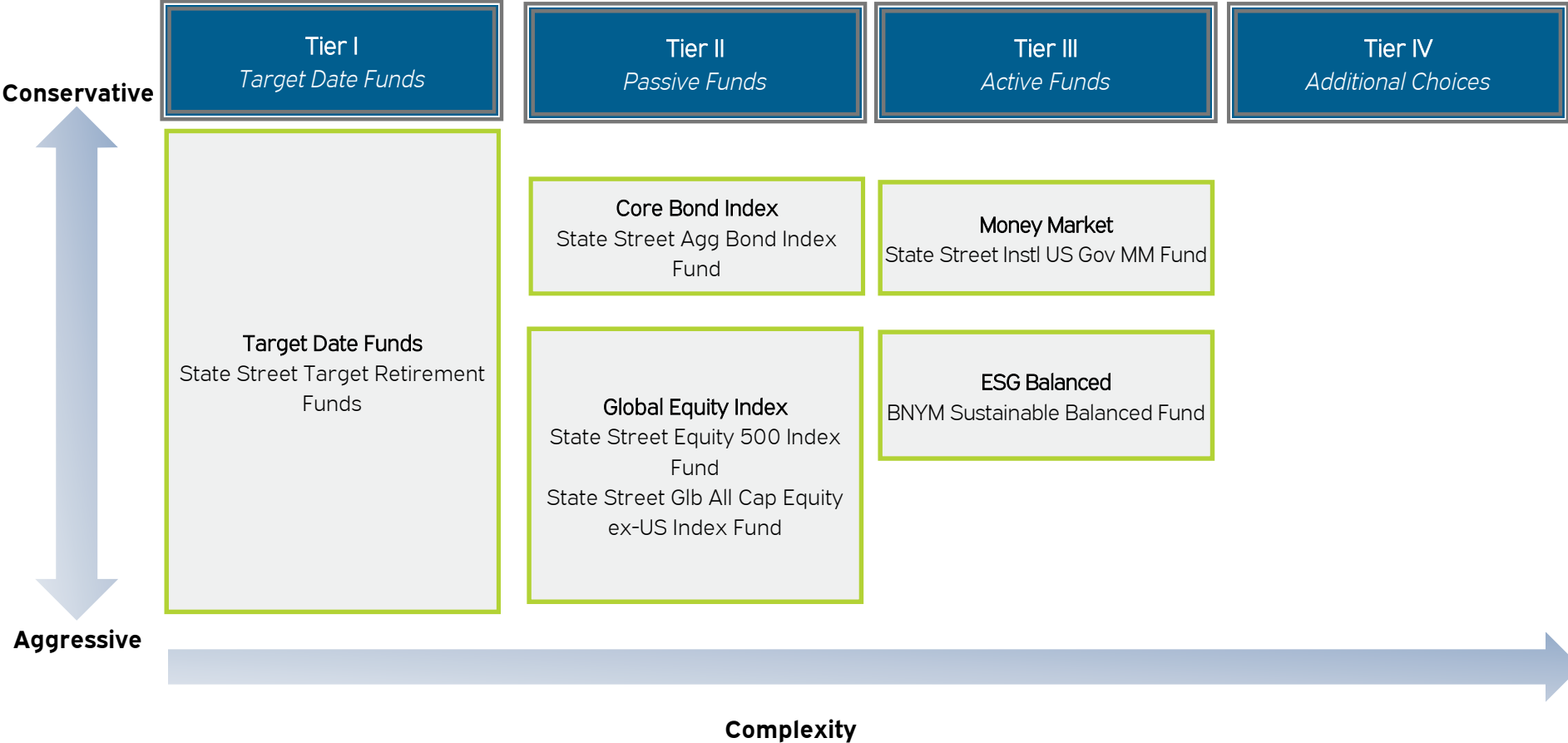
² Program Level returns are net of Program Level Fees.

³ Mutual Fund returns are ex Program Level Fees and are only net of manager level expenses.

⁴ As of 10/9/19, strategy became MSCI ACWI IMI ex US from MSCI ACWI ex US.

⁵ YTD return reflects a partial period from July 2019 to December 2019.

Current Investment Structure



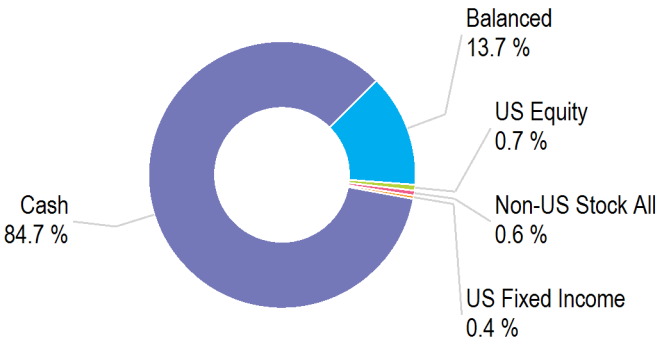
Defined Contribution Marketplace Update

- On December 20th, President Trump signed the Setting Every Community Up for Retirement Enhancement (SECURE) Act into law.
 - The legislation is one of the most significant pieces of retirement legislation since the Pension Protection Act (PPA) of 2006.
 - It contains more than two dozen provisions designed to encourage the adoption and administration of employer-sponsored plans.
 - The SECURE Act affects all qualified plans; §401(k), 403(b), 457(b), 401(a), ESOPs, Cash Balance plans, lump sums from defined benefit plans and IRAs, which are the recipient vehicles of most of those plans as rollover.
 - The majority of these provisions are effective on the date of enactment, or plan/tax years beginning after December 31, 2019.
- The Plan Sponsor Council of America (PSCA) released its 62nd annual survey results. A few highlights:
 - Average participant deferrals were up year over year from 7.1% in 2017 to 7.7% in 2018
 - Nearly 23% of participants elected to contribute to a Roth account, up from 19.5% in 2017
 - Nearly half of plans allowed participants to conduct plan transactions from a mobile device (47.5%)
 - Fewer than 10% of plans offer an annuity option to their participants (9.8%)

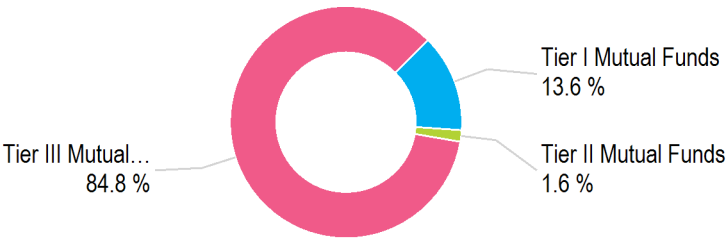
Appendix

Mutual Funds | As of December 31, 2019

Current Allocation



Current Plan Distribution



Asset Allocation

12/31/2019
Market Value

Total Mutual Funds	\$1,421,847
Tier I Mutual Funds	\$193,188
Tier II Mutual Funds	\$23,136
Tier III Mutual Funds	\$1,205,523

Tier 1 includes Target Retirement Date
Tier 2 includes Equity and Bond Index Funds
Tier 3 includes Actively Managed Equity and Bond Funds

Program Accounts | As of December 31, 2019

Program Accounts - Trailing Net Performance							
	Market Value (\$)	% of Portfolio	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
Total Plan	1,421,847	100.0					
Tier I	193,188	13.6					
State Street Target Ret Fund	2,892	0.2	3.0	13.1	13.1	13.1	Jan-19
<i>State Street Target Ret Income Custom TR</i>			3.3	14.0	14.0	14.0	Jan-19
<i>S&P Target Date Retirement Income TR USD</i>			3.1	13.3	13.3	13.3	Jan-19
<i>Morningstar Lifetime Mod Incm TR USD</i>			3.2	13.3	13.3	13.3	Jan-19
<i>DJ Target 2010 TR USD</i>			1.5	8.2	8.2	8.2	Jan-19
<i>Target Date Retirement Mstar MF Median</i>			2.6	13.3	13.3	13.3	Jan-19
<i>Target Date Retirement Mstar MF Rank</i>			20	58	58	58	Jan-19
State Street Target Ret 2015 Fund	890	0.1	3.1	13.7	13.7	13.7	Jan-19
<i>State Street Target Ret 2015 Custom TR</i>			3.3	14.5	14.5	14.5	Jan-19
<i>DJ Target 2015 TR USD</i>			1.8	9.5	9.5	9.5	Jan-19
<i>Morningstar Lifetime Mod 2015 TR USD</i>			3.6	16.3	16.3	16.3	Jan-19
<i>S&P Target Date 2015 TR USD</i>			3.7	15.4	15.4	15.4	Jan-19
<i>Target Date 2015 Mstar MF Median</i>			3.9	15.4	15.4	15.4	Jan-19
<i>Target Date 2015 Mstar MF Rank</i>			86	97	97	97	Jan-19

All program accounts were funded on 1/2/2019.
Peer median and rank are preliminary.

Program Accounts | As of December 31, 2019

	Market Value (\$)	% of Portfolio	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
State Street Target Ret 2020 Fund	14,864	1.0	4.0	16.7	16.7	16.7	Jan-19
<i>State Street Target Ret 2020 Custom TR</i>			4.4	17.7	17.7	17.7	Jan-19
<i>S&P Target Date 2020 TR USD</i>			4.2	16.5	16.5	16.5	Jan-19
<i>Morningstar Lifetime Mod 2020 TR USD</i>			3.9	17.7	17.7	17.7	Jan-19
<i>DJ Target 2020 TR USD</i>			2.5	12.0	12.0	12.0	Jan-19
<i>Target Date 2020 Mstar MF Median</i>			3.8	16.3	16.3	16.3	Jan-19
<i>Target Date 2020 Mstar MF Rank</i>			47	46	46	46	Jan-19
State Street Target Ret 2025 Fund	16,914	1.2	5.0	19.7	19.7	19.7	Jan-19
<i>State Street Target Ret 2025 Custom TR</i>			5.3	20.7	20.7	20.7	Jan-19
<i>S&P Target Date 2025 TR USD</i>			5.0	18.4	18.4	18.4	Jan-19
<i>Morningstar Lifetime Mod 2025 TR USD</i>			4.5	19.4	19.4	19.4	Jan-19
<i>DJ Target 2025 TR USD</i>			3.6	14.4	14.4	14.4	Jan-19
<i>Target Date 2025 Mstar MF Median</i>			4.8	18.8	18.8	18.8	Jan-19
<i>Target Date 2025 Mstar MF Rank</i>			43	22	22	22	Jan-19
State Street Target Ret 2030 Fund	27,199	1.9	5.7	21.6	21.6	21.6	Jan-19
<i>State Street Target Ret 2030 Custom TR</i>			6.0	22.6	22.6	22.6	Jan-19
<i>S&P Target Date 2030 TR USD</i>			5.8	20.4	20.4	20.4	Jan-19
<i>Morningstar Lifetime Mod 2030 TR USD</i>			5.3	21.2	21.2	21.2	Jan-19
<i>DJ Target 2030 TR USD</i>			4.7	17.1	17.1	17.1	Jan-19
<i>Target Date 2030 Mstar MF Median</i>			5.8	20.9	20.9	20.9	Jan-19
<i>Target Date 2030 Mstar MF Rank</i>			52	27	27	27	Jan-19

Program Accounts | As of December 31, 2019

	Market Value (\$)	% of Portfolio	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
State Street Target Ret 2035 Fund	17,487	1.2	6.2	22.6	22.6	22.6	Jan-19
State Street Target Ret 2035 Custom TR			6.6	23.8	23.8	23.8	Jan-19
S&P Target Date 2035 TR USD			6.6	22.2	22.2	22.2	Jan-19
Morningstar Lifetime Mod 2035 TR USD			6.3	23.0	23.0	23.0	Jan-19
DJ Target 2035 TR USD			5.7	19.7	19.7	19.7	Jan-19
Target Date 2035 Mstar MF Median			6.5	22.5	22.5	22.5	Jan-19
Target Date 2035 Mstar MF Rank			65	43	43	43	Jan-19
State Street Target Ret 2040 Fund	23,031	1.6	6.8	23.7	23.7	23.7	Jan-19
State Street Target Ret 2040 Custom TR			7.1	24.7	24.7	24.7	Jan-19
S&P Target Date 2040 TR USD			7.2	23.4	23.4	23.4	Jan-19
Morningstar Lifetime Mod 2040 TR USD			7.1	24.3	24.3	24.3	Jan-19
DJ Target 2040 TR USD			6.7	22.0	22.0	22.0	Jan-19
Target Date 2040 Mstar MF Median			7.1	23.9	23.9	23.9	Jan-19
Target Date 2040 Mstar MF Rank			67	59	59	59	Jan-19
State Street Target Ret 2045 Fund	24,200	1.7	7.2	24.5	24.5	24.5	Jan-19
State Street Target Ret 2045 Custom TR			7.5	25.6	25.6	25.6	Jan-19
S&P Target Date 2045 TR USD			7.5	24.0	24.0	24.0	Jan-19
Morningstar Lifetime Mod 2045 TR USD			7.6	25.0	25.0	25.0	Jan-19
DJ Target 2045 TR USD			7.4	23.7	23.7	23.7	Jan-19
Target Date 2045 Mstar MF Median			7.5	25.1	25.1	25.1	Jan-19
Target Date 2045 Mstar MF Rank			75	67	67	67	Jan-19

Program Accounts | As of December 31, 2019

	Market Value (\$)	% of Portfolio	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
State Street Target Ret 2050 Fund	19,659	1.4	7.4	24.8	24.8	24.8	Jan-19
<i>State Street Target Ret 2050 Custom TR</i>			7.7	25.9	25.9	25.9	Jan-19
<i>S&P Target Date 2050 TR USD</i>			7.7	24.4	24.4	24.4	Jan-19
<i>Morningstar Lifetime Mod 2050 TR USD</i>			7.7	25.1	25.1	25.1	Jan-19
<i>DJ Target 2050 TR USD</i>			7.8	24.7	24.7	24.7	Jan-19
<i>Target Date 2050 Mstar MF Median</i>			7.7	25.3	25.3	25.3	Jan-19
<i>Target Date 2050 Mstar MF Rank</i>			74	64	64	64	Jan-19
State Street Target Ret 2055 Fund	23,147	1.6	7.3	24.7	24.7	24.7	Jan-19
<i>State Street Target Ret 2055 Custom TR</i>			7.7	25.9	25.9	25.9	Jan-19
<i>S&P Target Date 2055 TR USD</i>			7.7	24.5	24.5	24.5	Jan-19
<i>DJ Target 2055 TR USD</i>			7.9	24.9	24.9	24.9	Jan-19
<i>Morningstar Lifetime Mod 2055 TR USD</i>			7.8	25.1	25.1	25.1	Jan-19
<i>Target Date 2055 Mstar MF Median</i>			7.8	25.2	25.2	25.2	Jan-19
<i>Target Date 2055 Mstar MF Rank</i>			78	74	74	74	Jan-19
State Street Target Ret 2060 Fund	16,696	1.2	7.5	24.9	24.9	24.9	Jan-19
<i>State Street Target Ret 2060 Custom TR</i>			7.7	25.9	25.9	25.9	Jan-19
<i>Morningstar Lifetime Mod 2060 TR USD</i>			7.8	25.0	25.0	25.0	Jan-19
<i>DJ Target 2060 TR USD</i>			7.3	23.9	23.9	23.9	Jan-19
<i>Target Date 2060+ Mstar MF Median</i>			8.0	25.6	25.6	25.6	Jan-19
<i>Target Date 2060+ Mstar MF Rank</i>			76	80	80	80	Jan-19

Program Accounts | As of December 31, 2019

	Market Value (\$)	% of Portfolio	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
State Street Target Ret 2065 Fund	6,209	0.4	7.5	24.9	24.9	24.9	Jan-19
<i>State Street Target Ret 2065 Custom TR</i>			7.7	25.9	25.9	25.9	Jan-19
<i>Morningstar Lifetime Mod 2060 TR USD</i>			7.8	25.0	25.0	25.0	Jan-19
<i>DJ Target 2060 TR USD</i>			7.3	23.9	23.9	23.9	Jan-19
<i>Target Date 2060+ Mstar MF Median</i>			8.0	25.6	25.6	25.6	Jan-19
<i>Target Date 2060+ Mstar MF Rank</i>			76	80	80	80	Jan-19
Tier II	23,136	1.6					
State Street Agg Bond Index Fund	5,507	0.4	-0.1	7.6	7.6	7.6	Jan-19
<i>BBgBarc US Aggregate TR</i>			0.2	8.7	8.7	8.7	Jan-19
<i>Intermediate Core Bond MStar MF Median</i>			0.1	8.5	8.5	8.5	Jan-19
<i>Intermediate Core Bond MStar MF Rank</i>			81	74	74	74	Jan-19
Global Equity Fund	17,629	1.2	8.8	27.8	27.8	27.8	Jan-19
<i>Global Equity Benchmark</i>			9.1	26.7	26.7	26.7	Jan-19
<i>World Large Stock Mstar MF Median</i>			8.5	26.8	26.8	26.8	Jan-19
<i>World Large Stock Mstar MF Rank</i>			46	45	45	45	Jan-19

Program Accounts | As of December 31, 2019

	Market Value (\$)	% of Portfolio	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
Tier III	1,205,523	84.8					
State Street Instl US Gov MM Fund	1,204,151	84.7	0.3	1.3	1.3	1.3	Jan-19
91 Day T-Bills			0.4	2.1	2.1	2.1	Jan-19
Money Market - Taxable MStar MF Median			0.4	2.0	2.0	2.0	Jan-19
Money Market - Taxable MStar MF Rank			94	99	99	99	Jan-19
BNY Mellon Sustainable Balanced Fund	1,372	0.1	5.3	--	--	7.0	Jul-19
60/40 MSCI-ACWI/BBMSCI-ESG			5.4	--	--	6.3	Jul-19
World Allocation MStar MF Median			5.3	17.9	17.9	5.3	Jul-19
World Allocation MStar MF Rank			46	--	--	12	Jul-19

Mutual Funds | As of December 31, 2019

Mutual Funds -Trailing Net Performance							
	Market Value (\$)	% of Portfolio	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
Total Mutual Funds	1,421,847	100.0					
Tier I Mutual Funds	193,188	13.6					
State Street Target Ret MF	2,892	0.2	3.2	14.0	14.0	14.0	Jan-19
State Street Target Ret Income Custom TR			3.3	14.0	14.0	14.0	Jan-19
S&P Target Date Retirement Income TR USD			3.1	13.3	13.3	13.3	Jan-19
Morningstar Lifetime Mod Incm TR USD			3.2	13.3	13.3	13.3	Jan-19
DJ Target 2010 TR USD			1.5	8.2	8.2	8.2	Jan-19
Target Date Retirement Mstar MF Median			2.6	13.3	13.3	13.3	Jan-19
Target Date Retirement Mstar MF Rank			15	34	34	34	Jan-19
State Street Target Ret 2015 MF	890	0.1	3.2	14.5	14.5	14.5	Jan-19
State Street Target Ret 2015 Custom TR			3.3	14.5	14.5	14.5	Jan-19
S&P Target Date 2015 TR USD			3.7	15.4	15.4	15.4	Jan-19
Morningstar Lifetime Mod 2015 TR USD			3.6	16.3	16.3	16.3	Jan-19
DJ Target 2015 TR USD			1.8	9.5	9.5	9.5	Jan-19
Target Date 2015 Mstar MF Median			3.9	15.4	15.4	15.4	Jan-19
Target Date 2015 Mstar MF Rank			85	81	81	81	Jan-19

Mutual Funds | As of December 31, 2019

	Market Value (\$)	% of Portfolio	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
State Street Target Ret 2020 MF	14,864	1.0	4.3	17.5	17.5	17.5	Jan-19
State Street Target Ret 2020 Custom TR			4.4	17.7	17.7	17.7	Jan-19
S&P Target Date 2020 TR USD			4.2	16.5	16.5	16.5	Jan-19
Morningstar Lifetime Mod 2020 TR USD			3.9	17.7	17.7	17.7	Jan-19
DJ Target 2020 TR USD			2.5	12.0	12.0	12.0	Jan-19
Target Date 2020 Mstar MF Median			3.8	16.3	16.3	16.3	Jan-19
Target Date 2020 Mstar MF Rank			37	30	30	30	Jan-19
State Street Target Ret 2025 MF	16,914	1.2	5.2	20.6	20.6	20.6	Jan-19
State Street Target Ret 2025 Custom TR			5.3	20.7	20.7	20.7	Jan-19
S&P Target Date 2025 TR USD			5.0	18.4	18.4	18.4	Jan-19
Morningstar Lifetime Mod 2025 TR USD			4.5	19.4	19.4	19.4	Jan-19
DJ Target 2025 TR USD			3.6	14.4	14.4	14.4	Jan-19
Target Date 2025 Mstar MF Median			4.8	18.8	18.8	18.8	Jan-19
Target Date 2025 Mstar MF Rank			32	6	6	6	Jan-19
State Street Target Ret 2030 MF	27,199	1.9	6.0	22.5	22.5	22.5	Jan-19
State Street Target Ret 2030 Custom TR			6.0	22.6	22.6	22.6	Jan-19
S&P Target Date 2030 TR USD			5.8	20.4	20.4	20.4	Jan-19
Morningstar Lifetime Mod 2030 TR USD			5.3	21.2	21.2	21.2	Jan-19
DJ Target 2030 TR USD			4.7	17.1	17.1	17.1	Jan-19
Target Date 2030 Mstar MF Median			5.8	20.9	20.9	20.9	Jan-19
Target Date 2030 Mstar MF Rank			33	15	15	15	Jan-19

Mutual Funds | As of December 31, 2019

	Market Value (\$)	% of Portfolio	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
State Street Target Ret 2035 MF	17,487	1.2	6.5	23.6	23.6	23.6	Jan-19
State Street Target Ret 2035 Custom TR			6.6	23.8	23.8	23.8	Jan-19
S&P Target Date 2035 TR USD			6.6	22.2	22.2	22.2	Jan-19
Morningstar Lifetime Mod 2035 TR USD			6.3	23.0	23.0	23.0	Jan-19
DJ Target 2035 TR USD			5.7	19.7	19.7	19.7	Jan-19
Target Date 2035 Mstar MF Median			6.5	22.5	22.5	22.5	Jan-19
Target Date 2035 Mstar MF Rank			52	21	21	21	Jan-19
State Street Target Ret 2040 MF	23,031	1.6	7.0	24.7	24.7	24.7	Jan-19
State Street Target Ret 2040 Custom TR			7.1	24.7	24.7	24.7	Jan-19
S&P Target Date 2040 TR USD			7.2	23.4	23.4	23.4	Jan-19
Morningstar Lifetime Mod 2040 TR USD			7.1	24.3	24.3	24.3	Jan-19
DJ Target 2040 TR USD			6.7	22.0	22.0	22.0	Jan-19
Target Date 2040 Mstar MF Median			7.1	23.9	23.9	23.9	Jan-19
Target Date 2040 Mstar MF Rank			59	28	28	28	Jan-19
State Street Target Ret 2045 MF	24,200	1.7	7.4	25.5	25.5	25.5	Jan-19
State Street Target Ret 2045 Custom TR			7.5	25.6	25.6	25.6	Jan-19
S&P Target Date 2045 TR USD			7.5	24.0	24.0	24.0	Jan-19
Morningstar Lifetime Mod 2045 TR USD			7.6	25.0	25.0	25.0	Jan-19
DJ Target 2045 TR USD			7.4	23.7	23.7	23.7	Jan-19
Target Date 2045 Mstar MF Median			7.5	25.1	25.1	25.1	Jan-19
Target Date 2045 Mstar MF Rank			61	33	33	33	Jan-19

Mutual Funds | As of December 31, 2019

	Market Value (\$)	% of Portfolio	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
State Street Target Ret 2050 MF	19,659	1.4	7.6	25.8	25.8	25.8	Jan-19
State Street Target Ret 2050 Custom TR			7.7	25.9	25.9	25.9	Jan-19
S&P Target Date 2050 TR USD			7.7	24.4	24.4	24.4	Jan-19
Morningstar Lifetime Mod 2050 TR USD			7.7	25.1	25.1	25.1	Jan-19
DJ Target 2050 TR USD			7.8	24.7	24.7	24.7	Jan-19
Target Date 2050 Mstar MF Median			7.7	25.3	25.3	25.3	Jan-19
Target Date 2050 Mstar MF Rank			59	33	33	33	Jan-19
State Street Target Ret 2055 MF	23,147	1.6	7.6	25.7	25.7	25.7	Jan-19
State Street Target Ret 2055 Custom TR			7.7	25.9	25.9	25.9	Jan-19
S&P Target Date 2055 TR USD			7.7	24.5	24.5	24.5	Jan-19
Morningstar Lifetime Mod 2055 TR USD			7.8	25.1	25.1	25.1	Jan-19
DJ Target 2055 TR USD			7.9	24.9	24.9	24.9	Jan-19
Target Date 2055 Mstar MF Median			7.8	25.2	25.2	25.2	Jan-19
Target Date 2055 Mstar MF Rank			65	39	39	39	Jan-19
State Street Target Ret 2060 MF	22,905	1.6	7.6	25.9	25.9	25.9	Jan-19
State Street Target Ret 2060 Custom TR			7.7	25.9	25.9	25.9	Jan-19
Morningstar Lifetime Mod 2060 TR USD			7.8	25.0	25.0	25.0	Jan-19
DJ Target 2060 TR USD			7.3	23.9	23.9	23.9	Jan-19
Target Date 2060+ Mstar MF Median			8.0	25.6	25.6	25.6	Jan-19
Target Date 2060+ Mstar MF Rank			69	45	45	45	Jan-19

Target Ret 2060 mutual fund reflects market values for both Target Ret 2060 and Target Ret 2065

Mutual Funds | As of December 31, 2019

	Market Value (\$)	% of Portfolio	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
Tier II Mutual Funds	23,136	1.6					
State Street Agg Bond Index MF	5,507	0.4	0.1	8.6	8.6	8.6	Jan-19
BBgBarc US Aggregate TR			0.2	8.7	8.7	8.7	Jan-19
Intermediate Core Bond MStar MF Median			0.1	8.5	8.5	8.5	Jan-19
Intermediate Core Bond MStar MF Rank			55	45	45	45	Jan-19
State Street Equity 500 Index MF	9,809	0.7	9.0	31.4	31.4	31.4	Jan-19
S&P 500			9.1	31.5	31.5	31.5	Jan-19
Large Cap MStar MF Median			8.6	29.7	29.7	29.7	Jan-19
Large Cap MStar MF Rank			40	33	33	33	Jan-19
State Street Global Equity ex-US Index MF	7,820	0.6	8.9	21.5	21.5	21.5	Jan-19
Global Equity MF Benchmark			9.1	21.7	21.7	21.7	Jan-19
Foreign MStar MF Median			9.2	22.6	22.6	22.6	Jan-19
Foreign MStar MF Rank			58	63	63	63	Jan-19
Tier III Mutual Funds	1,205,523	84.8					
State Street Instl US Gov MM MF	1,204,151	84.7	0.4	2.2	2.2	2.2	Jan-19
91 Day T-Bills			0.4	2.1	2.1	2.1	Jan-19
Money Market - Taxable MStar MF Median			0.4	2.0	2.0	2.0	Jan-19
Money Market - Taxable MStar MF Rank			6	4	4	4	Jan-19
BNY Mellon Sustainable Balanced MF	1,372	0.1	5.6	--	--	11.0	Apr-19
60/40 MSCI-ACWI/BBMSCI-ESG			5.4	--	--	10.0	Apr-19
World Allocation MStar MF Median			5.3	17.9	17.9	8.2	Apr-19
World Allocation MStar MF Rank			43	--	--	10	Apr-19

Global Equity is comprised of Equity 500 Index Mutual Fund and Global Equity Non-US Index Mutual Fund. Weights are based in US/Non-US components of MSCI ACWI.
 BNYM Sustainable Balanced Mutual Fund Benchmark it is 60% MSCI ACWI and 40% BB-MSCI US AGG ESG - weighted Select Sector Neutral Index.

Program Accounts | As of December 31, 2019

Cash Flows					
3 Months Ending December 31, 2019					
	Beginning MV	Total Contr	Benefit Withdrawals	Gain/Loss	Ending MV
State Street Target Ret Fund	\$719	\$2,186	-\$10	-\$3	\$2,892
State Street Target Ret 2015 Fund	\$133	\$740	\$0	\$16	\$890
State Street Target Ret 2020 Fund	\$4,477	\$10,008	\$0	\$380	\$14,864
State Street Target Ret 2025 Fund	\$2,375	\$14,108	-\$20	\$452	\$16,914
State Street Target Ret 2030 Fund	\$13,403	\$15,153	-\$2,468	\$1,110	\$27,199
State Street Target Ret 2035 Fund	\$6,157	\$10,467	\$0	\$863	\$17,487
State Street Target Ret 2040 Fund	\$11,456	\$12,814	-\$5,922	\$4,682	\$23,031
State Street Target Ret 2045 Fund	\$8,092	\$16,995	-\$2,032	\$1,145	\$24,200
State Street Target Ret 2050 Fund	\$5,924	\$13,057	-\$182	\$859	\$19,659
State Street Target Ret 2055 Fund	\$8,932	\$17,824	-\$4,905	\$1,296	\$23,147
State Street Target Ret 2060 Fund	\$4,045	\$11,959	\$0	\$692	\$16,696
State Street Target Ret 2065 Fund	\$3,165	\$2,126	\$0	\$919	\$6,209
State Street Agg Bond Index Fund	\$1,536	\$3,976	\$0	-\$5	\$5,507
Global Equity Fund	\$10,838	\$12,384	-\$7,115	\$1,522	\$17,629
State Street Instl US Gov MM Fund	\$642,436	\$647,272	-\$83,892	-\$1,665	\$1,204,151
BNY Mellon Sustainable Balanced Fund	\$0	\$1,368	-\$31	\$35	\$1,372
Total	\$723,687	\$792,437	-\$106,576	\$12,299	\$1,421,847

Program Accounts | As of December 31, 2019

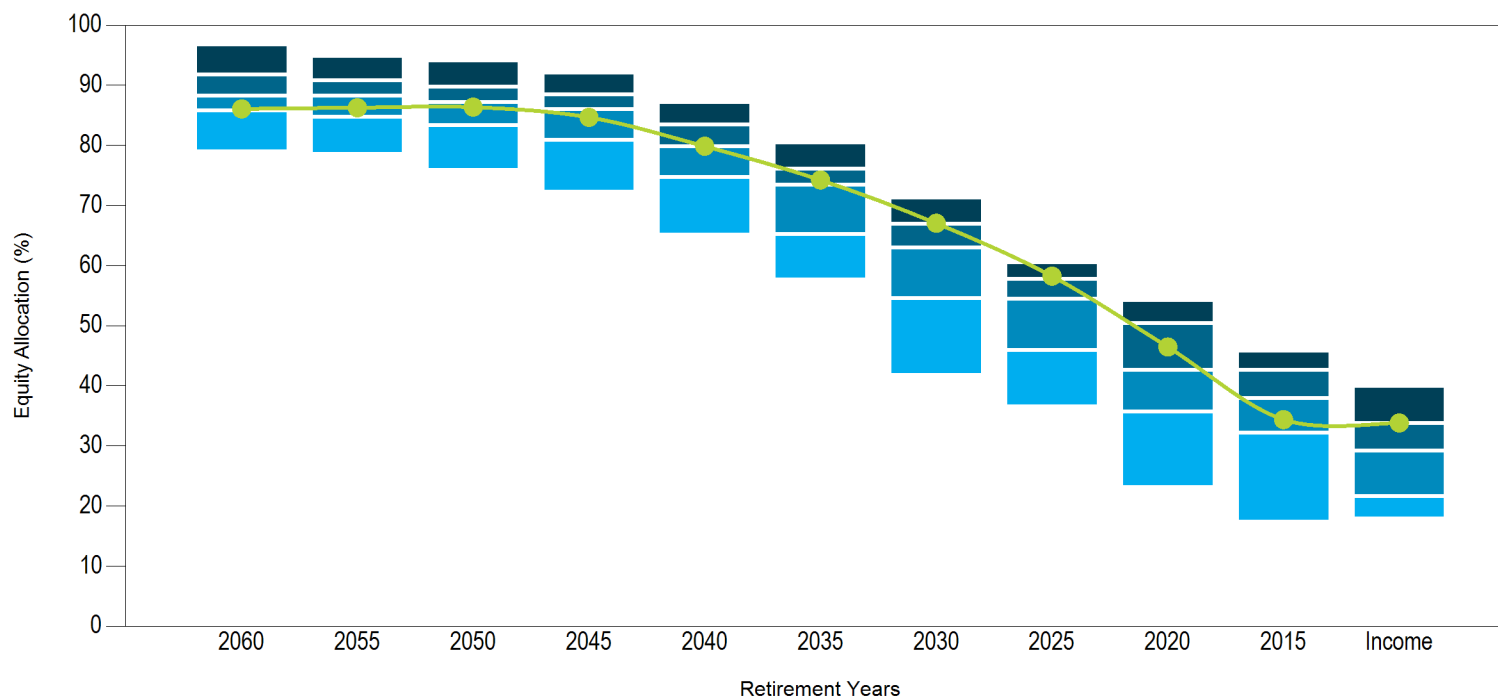
Program Accounts Investment Expense Analysis				
Name	Market Value	% of Portfolio	Estimated Fee	Estimated Fee Value
Tier I	\$193,188	13.6%		
State Street Target Ret Fund	\$2,892	0.2%	0.89%	\$26
State Street Target Ret 2015 Fund	\$890	0.1%	0.89%	\$8
State Street Target Ret 2020 Fund	\$14,864	1.0%	0.89%	\$132
State Street Target Ret 2025 Fund	\$16,914	1.2%	0.89%	\$151
State Street Target Ret 2030 Fund	\$27,199	1.9%	0.89%	\$242
State Street Target Ret 2035 Fund	\$17,487	1.2%	0.89%	\$156
State Street Target Ret 2040 Fund	\$23,031	1.6%	0.89%	\$205
State Street Target Ret 2045 Fund	\$24,200	1.7%	0.89%	\$215
State Street Target Ret 2050 Fund	\$19,659	1.4%	0.89%	\$175
State Street Target Ret 2055 Fund	\$23,147	1.6%	0.89%	\$206
State Street Target Ret 2060 Fund	\$16,696	1.2%	0.89%	\$149
State Street Target Ret 2065 Fund	\$6,209	0.4%	0.89%	\$55
Tier II	\$23,136	1.6%		
State Street Agg Bond Index Fund	\$5,507	0.4%	0.83%	\$46
Global Equity Fund	\$17,629	1.2%	0.84%	\$148
Tier III	\$1,205,523	84.8%		
State Street Instl US Gov MM Fund	\$1,204,151	84.7%	0.92%	\$11,078
BNY Mellon Sustainable Balanced Fund	\$1,372	0.1%	0.95%	\$13
Total	\$1,421,847	100.0%	0.91%	\$13,004

Mutual Funds | As of December 31, 2019

Mutual Funds Investment Expense Analysis					
Name	Identifier	Market Value	% of Portfolio	Expense Ratio	Estimated Expense
Tier I Mutual Funds		\$193,188	13.6%		
State Street Target Ret MF	SSFOX	\$2,892	0.2%	0.09%	\$3
State Street Target Ret 2015 MF	SSBHX	\$890	0.1%	0.09%	\$1
State Street Target Ret 2020 MF	SSBOX	\$14,864	1.0%	0.09%	\$13
State Street Target Ret 2025 MF	SSBSX	\$16,914	1.2%	0.09%	\$15
State Street Target Ret 2030 MF	SSBYX	\$27,199	1.9%	0.09%	\$24
State Street Target Ret 2035 MF	SSCKX	\$17,487	1.2%	0.09%	\$16
State Street Target Ret 2040 MF	SSCQX	\$23,031	1.6%	0.09%	\$21
State Street Target Ret 2045 MF	SSDEX	\$24,200	1.7%	0.09%	\$22
State Street Target Ret 2050 MF	SSDLX	\$19,659	1.4%	0.09%	\$18
State Street Target Ret 2055 MF	SSDQX	\$23,147	1.6%	0.09%	\$21
State Street Target Ret 2060 MF	SSDYX	\$22,905	1.6%	0.09%	\$21
Tier II Mutual Funds		\$23,136	1.6%		
State Street Agg Bond Index MF	SSFEX	\$5,507	0.4%	0.03%	\$1
State Street Equity 500 Index MF	SSSYX	\$9,809	0.7%	0.02%	\$2
State Street Global Equity ex-US Index MF	SSGLX	\$7,820	0.6%	0.07%	\$5
Tier III Mutual Funds		\$1,205,523	84.8%		
State Street Instl US Gov MM MF	GVMXX	\$1,204,151	84.7%	0.12%	\$1,445
BNY Mellon Sustainable Balanced MF	DRAKX	\$1,372	0.1%	0.15%	\$2
Total		\$1,421,847	100.0%	0.11%	\$1,629

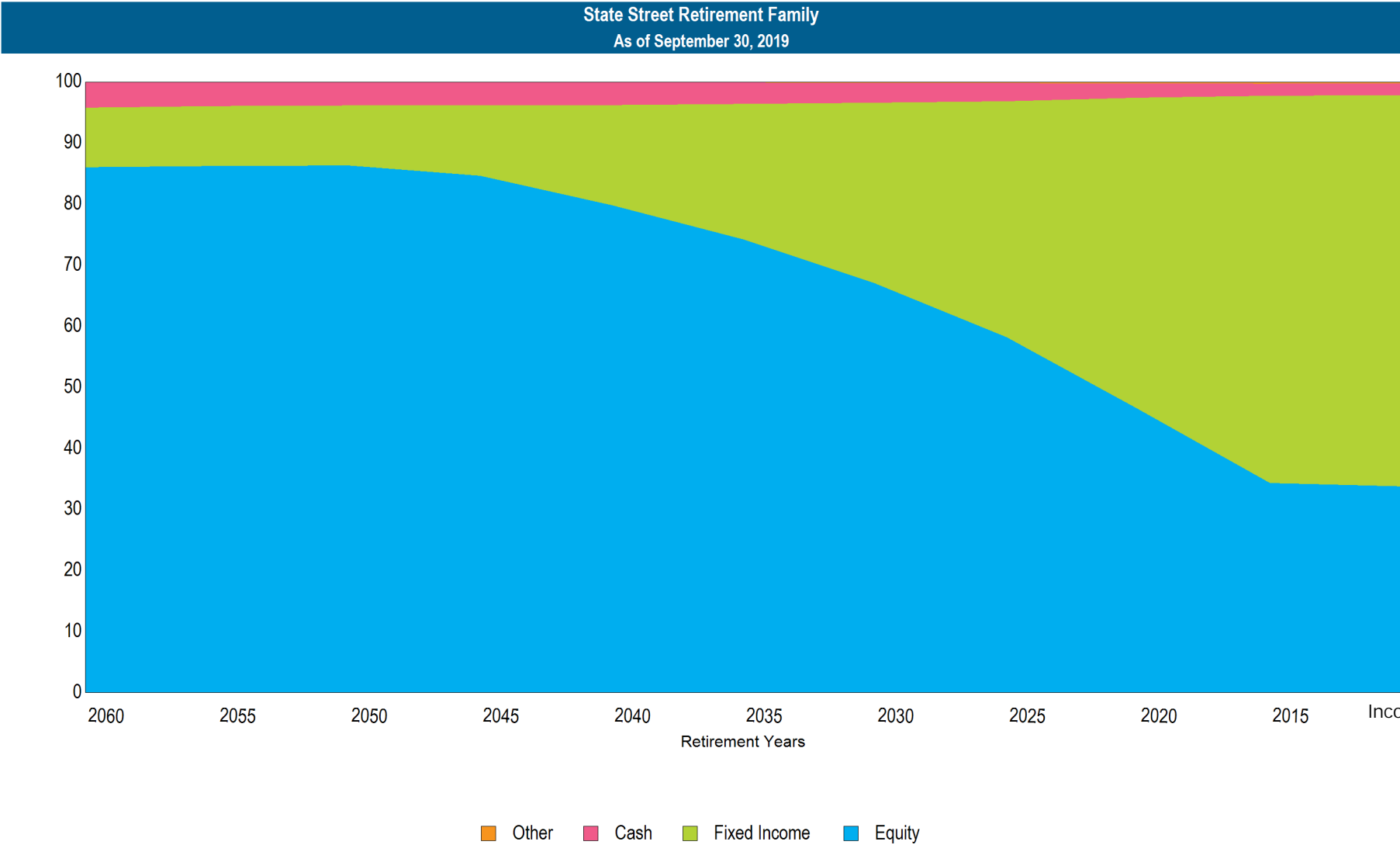
State Street Retirement Family | As of December 31, 2019

State Street Retirement Family vs. Universe of Target Date Families Equity Exposure
As of September 30, 2019



	Allocation (Rank)										
5th Percentile	79.1	78.6	76.0	72.3	65.2	57.8	41.9	36.6	23.2	17.4	18.0
25th Percentile	85.9	84.8	83.4	81.0	74.8	65.4	54.7	46.0	35.7	32.2	21.6
Median	88.4	88.3	87.2	86.1	79.9	73.5	63.0	54.6	42.7	38.0	29.3
75th Percentile	91.9	90.9	89.9	88.6	83.5	76.2	67.0	57.9	50.5	42.7	33.8
95th Percentile	96.7	94.9	94.1	92.1	87.2	80.4	71.3	60.6	54.2	45.8	40.0
# of Portfolios	44	47	48	47	47	47	47	47	47	30	31
● State Street Retirement	86.1 (31)	86.3 (37)	86.4 (47)	84.7 (37)	79.9 (48)	74.2 (59)	67.0 (77)	58.2 (77)	46.5 (70)	34.4 (32)	33.8 (74)

State Street Retirement Family | As of December 31, 2019



Objective

The State Street Aggregate Bond Index Fund seeks to provide investment results that, before fees and expenses, correspond generally to the price and yield performance of an index that tracks the U.S. dollar denominated investment grade bond market over the long term.

Account Information

Account Name	State Street Agg Bond Index MF
Account Structure	Mutual Fund
Investment Style	Passive
Inception Date	1/01/19
Account Type	US Fixed Income
Benchmark	BBgBarc US Aggregate TR
Universe	Intermediate Core Bond MStar MF

Portfolio Performance Summary

	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
State Street Agg Bond Index MF	0.1	8.6	8.6	8.6	Jan-19
BBgBarc US Aggregate TR	0.2	8.7	8.7	8.7	Jan-19
Intermediate Core Bond MStar MF Median	0.1	8.5	8.5	8.5	Jan-19
Intermediate Core Bond MStar MF Rank	55	45	45	45	Jan-19

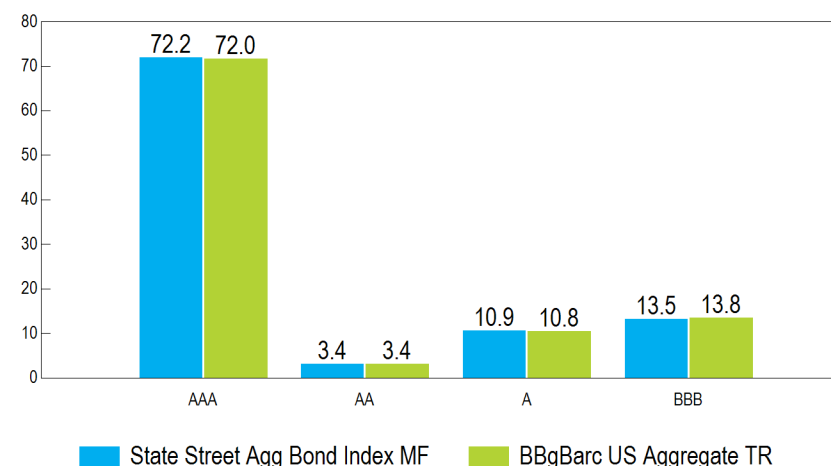
State Street Agg Bond Index MF Fixed Income Characteristics vs. BBgBarc US Aggregate TR

	Portfolio Q4-19	Index Q4-19	Portfolio Q3-19
Fixed Income Characteristics			
Yield to Maturity	2.3	2.3	2.3
Average Duration	5.9	6.3	5.8
Average Quality	AA	AA	AA

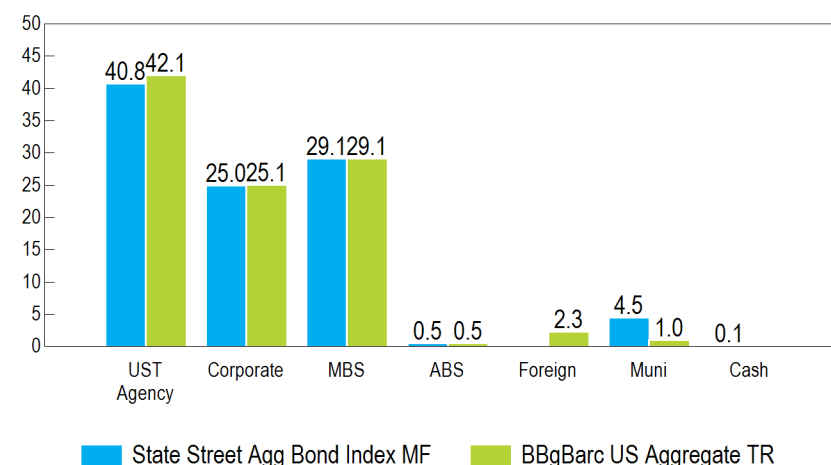
Note: The Portfolio is using Effective Duration

State Street Agg Bond Index MF | As of December 31, 2019

Credit Quality Allocation



Sector Allocation



State Street Equity 500 Index MF | As of December 31, 2019

Objective

The investment objective of the State Street Equity 500 Index Fund is to replicate as closely as possible, before expenses, the performance of the Standard & Poor's 500 Index.

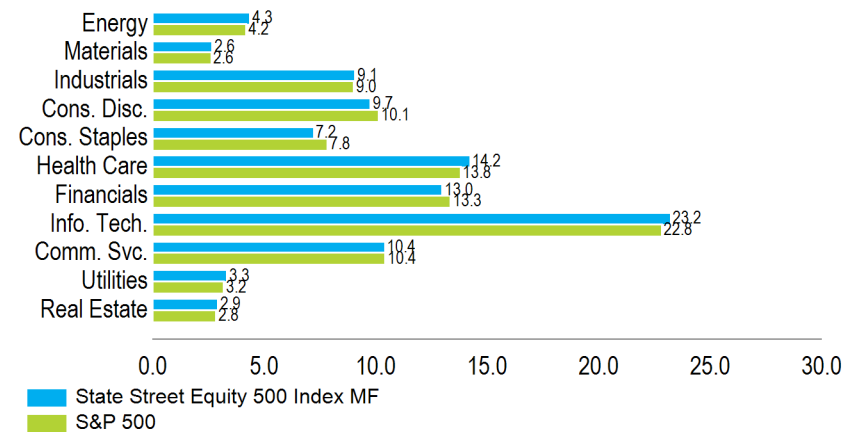
Account Information		Top Holdings	
Account Name	State Street Equity 500 Index MF	APPLE	4.6%
Account Structure	Mutual Fund	MICROSOFT	4.5%
Investment Style	Passive	AMAZON.COM	2.9%
Inception Date	1/01/19	FACEBOOK CLASS A	1.8%
Account Type	US Equity	BERKSHIRE HATHAWAY 'B'	1.7%
Benchmark	S&P 500	JP MORGAN CHASE & CO.	1.6%
Universe	Large Cap MStar MF	ALPHABET A	1.5%
		ALPHABET 'C'	1.5%
		JOHNSON & JOHNSON	1.4%
		VISA 'A'	1.2%
		Total	22.7%

Portfolio Performance Summary					
	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
State Street Equity 500 Index MF	9.0	31.4	31.4	31.4	Jan-19
S&P 500	9.1	31.5	31.5	31.5	Jan-19
Large Cap MStar MF Median	8.6	29.7	29.7	29.7	Jan-19
Large Cap MStar MF Rank	40	33	33	33	Jan-19

State Street Equity 500 Index MF Equity Characteristics vs S&P 500

	Portfolio Q4-19	Index Q4-19	Portfolio Q3-19
Market Value			
Market Value (\$M)	0.0	--	0.0
Number Of Holdings	505	505	505
Characteristics			
Weighted Avg. Market Cap. (\$B)	269.8	272.0	230.6
Median Market Cap (\$B)	23.6	23.6	22.4
P/E Ratio	23.0	23.0	20.6
Yield	1.9	1.8	2.0
EPS Growth - 5 Yrs.	12.9	12.8	13.4
Price to Book	3.9	3.9	3.7
Beta (holdings; domestic)	1.0	1.0	1.0

Sector Allocation (%) vs S&P 500



State Street Global Equity ex-US Index MF | As of December 31, 2019

Objective

The State Street Global All Cap Equity ex-US Index Fund seeks to provide investment results that, before fees and expenses, correspond generally to the total return performance of a broad-based index of world (ex-U.S.) equity markets over the long term.

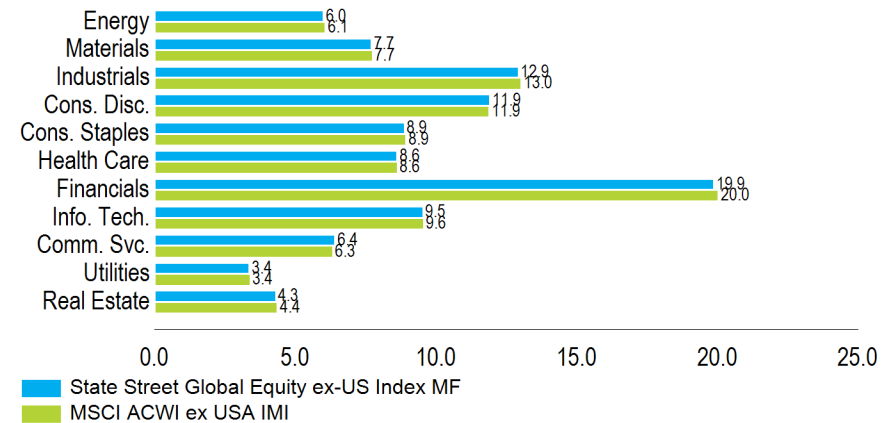
Account Information		Top Holdings	
Account Name	State Street Global Equity ex-US Index MF	ALIBABA GROUP HOLDING ADR 1:8	1.4%
Account Structure	Mutual Fund	NESTLE 'R'	1.2%
Investment Style	Passive	TENCENT HOLDINGS	1.1%
Inception Date	1/01/19	TAIWAN SEMICON.MNFG.	1.1%
Account Type	Non-US Stock All	SAMSUNG ELECTRONICS	0.9%
Benchmark	Global Equity MF Benchmark	ROCHE HOLDING	0.9%
Universe	Foreign MStar MF	NOVARTIS 'R'	0.8%
		TOYOTA MOTOR	0.6%
		HSBC HOLDINGS	0.6%
		SAP	0.5%
		Total	9.0%

Portfolio Performance Summary					
	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
State Street Global Equity ex-US Index MF	8.9	21.5	21.5	21.5	Jan-19
Global Equity MF Benchmark	9.1	21.7	21.7	21.7	Jan-19
Foreign MStar MF Median	9.2	22.6	22.6	22.6	Jan-19
Foreign MStar MF Rank	58	63	63	63	Jan-19

State Street Global Equity ex-US Index MF Equity Characteristics vs MSCI ACWI ex USA IMI

	Portfolio Q4-19	Index Q4-19	Portfolio Q3-19
Market Value			
Market Value (\$M)	0.0	--	0.0
Number Of Holdings	6278	6587	6435
Characteristics			
Weighted Avg. Market Cap. (\$B)	64.5	64.5	56.3
Median Market Cap (\$B)	1.6	1.7	1.5
P/E Ratio	16.3	16.2	15.2
Yield	3.0	3.0	3.2
EPS Growth - 5 Yrs.	9.1	9.3	9.0
Price to Book	2.4	2.4	2.3
Beta (holdings; domestic)	1.0	1.0	1.0

Sector Allocation (%) vs MSCI ACWI ex USA IMI



State Street Global Equity ex-US Index MF | As of December 31, 2019

Country Allocation	Manager Allocation (USD)	Index Allocation (USD)
Europe		
Austria	0.2%	0.2%
Belgium	0.8%	0.8%
Czech Republic*	0.0%	0.0%
Denmark	1.2%	1.2%
Finland	0.7%	0.7%
France	6.9%	6.8%
Germany	5.5%	5.5%
Greece*	0.1%	0.1%
Hungary*	0.1%	0.1%
Ireland	0.2%	0.4%
Italy	1.7%	1.7%
Luxembourg	0.1%	0.0%
Netherlands	3.0%	2.5%
Norway	0.6%	0.6%
Poland*	0.3%	0.3%
Portugal	0.1%	0.1%
Russia*	0.5%	0.9%
Spain	1.9%	1.9%
Sweden	2.0%	2.1%
Switzerland	6.0%	5.8%
United Kingdom	10.8%	11.1%
Total-Europe	42.8%	42.7%
Americas		
Argentina*	0.0%	0.1%
Brazil*	2.0%	1.9%
Canada	7.0%	7.0%
Chile*	0.3%	0.3%
Colombia*	0.1%	0.1%
Mexico*	0.7%	0.6%
Peru*	0.1%	0.1%
United States	0.8%	0.0%
Total-Americas	10.9%	10.1%
AsiaPacific		
Australia	4.9%	4.8%
China*	3.8%	7.8%
Hong Kong	5.0%	2.3%
India*	2.4%	2.3%
Indonesia*	0.5%	0.5%
Japan	17.5%	17.3%
Korea*	3.2%	3.2%
Malaysia*	0.6%	0.6%
New Zealand	0.2%	0.2%
Pakistan*	0.0%	0.0%
Philippines*	0.3%	0.3%
Singapore	1.0%	0.9%
Taiwan*	3.2%	3.1%
Thailand*	0.8%	0.8%
Total-AsiaPacific	43.4%	44.1%

Top Holdings	
ALIBABA GROUP HOLDING ADR 1:8	1.4%
NESTLE 'R'	1.2%
TENCENT HOLDINGS	1.1%
TAIWAN SEMICON.MNFG.	1.1%
SAMSUNG ELECTRONICS	0.9%
ROCHE HOLDING	0.9%
NOVARTIS 'R'	0.8%
TOYOTA MOTOR	0.6%
HSBC HOLDINGS	0.6%
SAP	0.5%
Total	9.0%

BNY Mellon Sustainable Balanced MF | As of December 31, 2019

Objective

The strategy looks to generate capital appreciation by investing in equity securities and debt/fixed-income securities of global companies that demonstrate attractive investment attributes and sustainable business practices. The equity component of the strategy is managed by Newton Investment Management (North America) Ltd.; the fixed income component is managed by Mellon Investments Corporation.

Account Information

Account Name	BNY Mellon Sustainable Balanced MF
Account Structure	Mutual Fund
Investment Style	Active
Inception Date	4/01/19
Account Type	Balanced
Benchmark	60/40 MSCI-ACWI/BBMSCI-ESG
Universe	World Allocation MStar MF

Portfolio Performance Summary

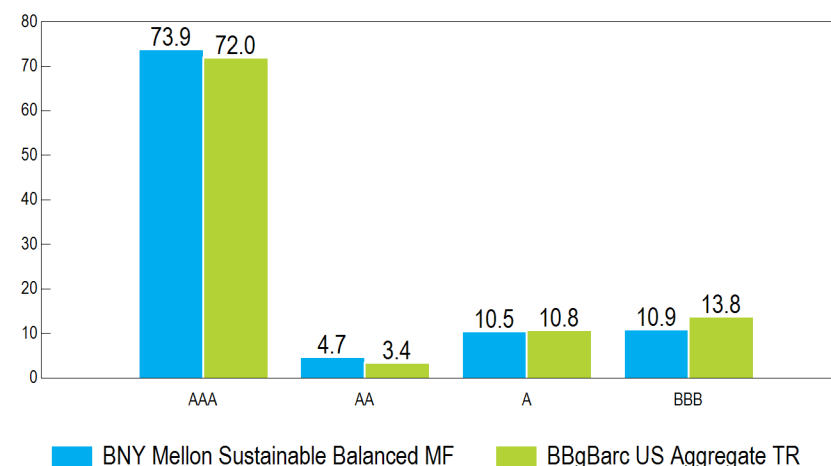
	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
BNY Mellon Sustainable Balanced MF	5.6	--	--	11.0	Apr-19
60/40 MSCI-ACWI/BBMSCI-ESG	5.4	--	--	10.0	Apr-19
World Allocation MStar MF Median	5.3	17.9	17.9	8.2	Apr-19
World Allocation MStar MF Rank	43	--	--	10	Apr-19

BNY Mellon Sustainable Balanced MF Fixed Income Characteristics vs. BBgBarc US Aggregate TR

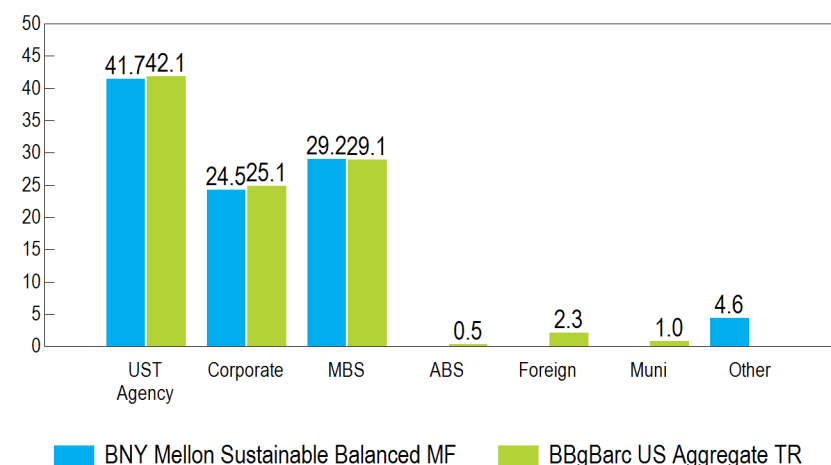
	Portfolio Q4-19	Index Q4-19	Portfolio Q3-19
Fixed Income Characteristics			
Yield to Maturity	2.2	2.3	2.2
Average Duration	5.5	6.3	5.3
Average Quality	AA	AA	--

Note: The Portfolio is using Modified Adjusted Duration

Credit Quality Allocation



Sector Allocation



BNY Mellon Sustainable Balanced MF | As of December 31, 2019

Objective

The strategy looks to generate capital appreciation by investing in equity securities and debt/fixed-income securities of global companies that demonstrate attractive investment attributes and sustainable business practices. The equity component of the strategy is managed by Newton Investment Management (North America) Ltd.; the fixed income component is managed by Mellon Investments Corporation.

Account Information

Account Name	BNY Mellon Sustainable Balanced MF
Account Structure	Mutual Fund
Investment Style	Active
Inception Date	4/01/19
Account Type	Balanced
Benchmark	60/40 MSCI-ACWI/BBMSCI-ESG
Universe	World Allocation MStar MF

Portfolio Performance Summary

	QTD (%)	YTD (%)	1 Yr (%)	Inception (%)	Inception Date
BNY Mellon Sustainable Balanced MF	5.6	--	--	11.0	Apr-19
60/40 MSCI-ACWI/BBMSCI-ESG	5.4	--	--	10.0	Apr-19
World Allocation MStar MF Median	5.3	17.9	17.9	8.2	Apr-19
World Allocation MStar MF Rank	43	--	--	10	Apr-19

Top Holdings

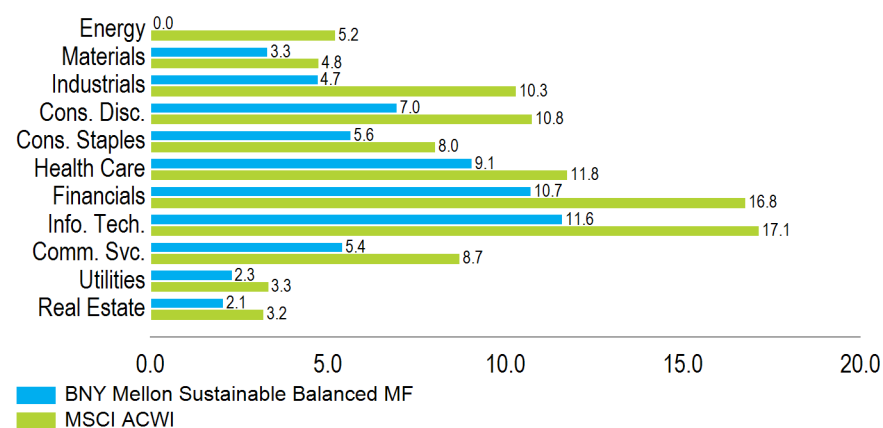
FNMA CONV 30 YR SF	3.1%
MICROSOFT	2.0%
APPLE	2.0%
GNMA2 SINGLE FAMILY 30 YR MULTIPLE	1.6%
ALPHABET 'C'	1.1%
AMAZON.COM	1.0%
UST 2.250 07/31/21	1.0%
FED NATL MTG ASSN (FNCL 3.5 N JAN)	1.0%
UST 1.125 07/31/21 When Iss	1.0%
VERIZON COMMUNICATIONS	0.9%
Total	14.7%

BNY Mellon Sustainable Balanced MF Equity Characteristics

vs MSCI ACWI

	Portfolio Q4-19	Index Q4-19	Portfolio Q3-19
Market Value			
Market Value (\$M)	0.0	--	0.0
Number Of Holdings	295	3017	74
Characteristics			
Weighted Avg. Market Cap. (\$B)	211.8	176.6	195.8
Median Market Cap (\$B)	73.8	10.0	75.7
P/E Ratio	20.0	19.4	18.1
Yield	2.2	2.4	2.5
EPS Growth - 5 Yrs.	12.1	11.2	10.3
Price to Book	3.3	3.1	3.4
Beta (holdings; domestic)	1.0	1.0	1.0

Sector Allocation (%) vs MSCI ACWI



US Equity Cyclically Adjusted P/E¹

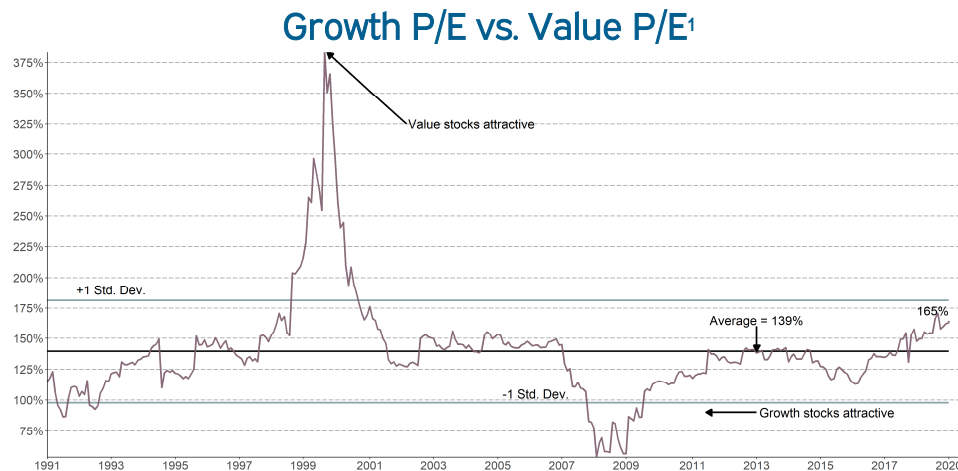


Small Cap P/E vs. Large Cap P/E²



¹ US Equity Cyclically Adjusted P/E on S&P 500 Index – Source: Robert Shiller, Yale University and Meketa Investment Group.

² Small Cap P/E (Russell 2000 Index) vs. Large Cap P/E (Russell 1000 Index) – Source: Russell Investments. Earnings figures represent 12-month “as reported” earnings.



Developed International Equity Cyclically Adjusted P/E²



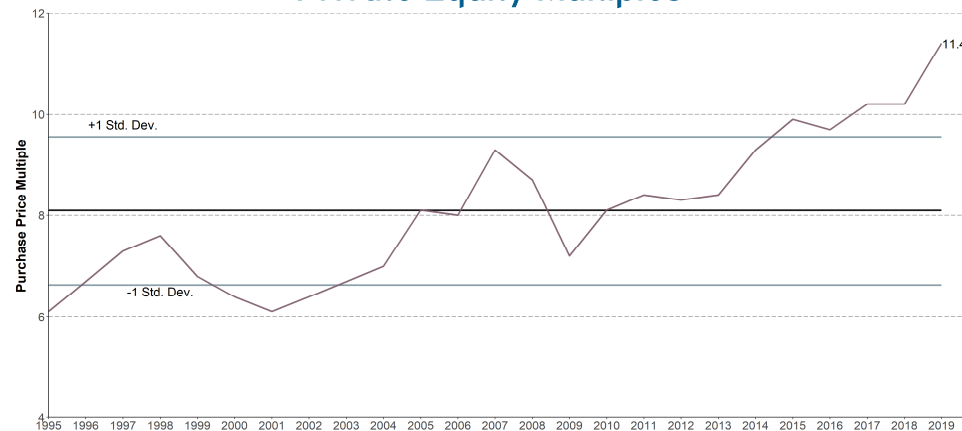
¹ Growth P/E (Russell 3000 Growth Index) vs. Value (Russell 3000 Value Index) P/E - Source: Bloomberg, MSCI, and Meketa Investment Group. Earnings figures represent 12-month "as reported" earnings.

² Developed International Equity (MSCI EAFE ex Japan Index) Cyclically Adjusted P/E - Source: MSCI and Bloomberg. Earnings figures represent the average of monthly "as reported" earnings over the previous ten years.

Emerging Market Equity Cyclically Adjusted P/E¹



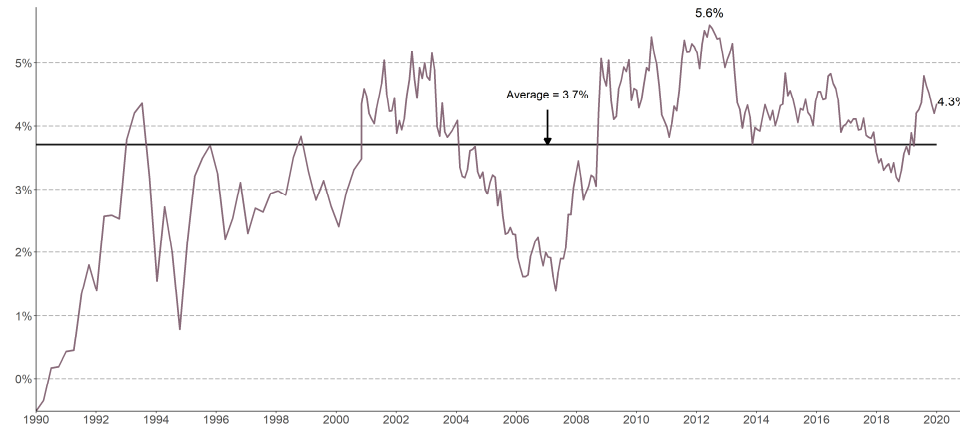
Private Equity Multiples²



¹ Emerging Market Equity (MSCI Emerging Markets Index) Cyclically Adjusted P/E – Source: MSCI and Bloomberg. Earnings figures represent the average of monthly “as reported” earnings over the previous ten years.

² Private Equity Multiples – Source: S&P LCD Average EBITDA Multiples Paid in All LBOs.

Core Real Estate Spread vs. Ten-Year Treasury¹



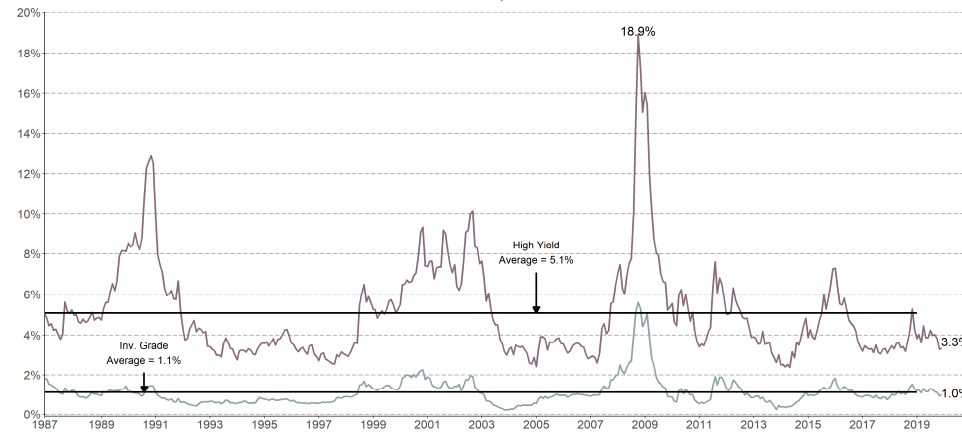
REITs Dividend Yield Spread vs. Ten-Year Treasury²



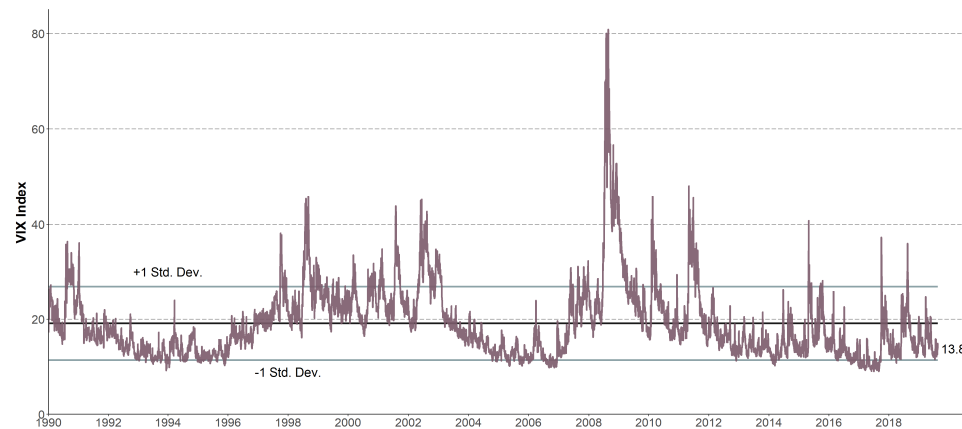
¹ Core Real Estate Spread vs. Ten-Year Treasury – Source: Real Capital Analytics, US Treasury, Bloomberg, and Meketa Investment Group. Core Real Estate is proxied by weighted sector transaction based indices from Real Capital Analytics and Meketa Investment Group.

² REITs Dividend Yield Spread vs. Ten-Year Treasury – Source: NAREIT, US Treasury. REITs are proxied by the yield for the NAREIT Equity index.

Credit Spreads¹



Equity Volatility²



¹ Credit Spreads – Source: Barclays Capital. High Yield is proxied by the Barclays High Yield index and Investment Grade Corporates are proxied by the Barclays US Corporate Investment Grade index.

² Equity Volatility – Source: Bloomberg, and Meketa Investment Group. Equity Volatility proxied by VIX Index, a Measure of implied option volatility for US equity markets.

WE HAVE PREPARED THIS REPORT (THIS "REPORT") FOR THE SOLE BENEFIT OF THE INTENDED RECIPIENT (THE "RECIPIENT").

SIGNIFICANT EVENTS MAY OCCUR (OR HAVE OCCURRED) AFTER THE DATE OF THIS REPORT AND THAT IT IS NOT OUR FUNCTION OR RESPONSIBILITY TO UPDATE THIS REPORT. ANY OPINIONS OR RECOMMENDATIONS PRESENTED HEREIN REPRESENT OUR GOOD FAITH VIEWS AS OF THE DATE OF THIS REPORT AND ARE SUBJECT TO CHANGE AT ANY TIME. ALL INVESTMENTS INVOLVE RISK. THERE CAN BE NO GUARANTEE THAT THE STRATEGIES, TACTICS, AND METHODS DISCUSSED HERE WILL BE SUCCESSFUL.

INFORMATION USED TO PREPARE THIS REPORT WAS OBTAINED FROM INVESTMENT MANAGERS, CUSTODIANS, AND OTHER EXTERNAL SOURCES. WHILE WE HAVE EXERCISED REASONABLE CARE IN PREPARING THIS REPORT, WE CANNOT GUARANTEE THE ACCURACY OF ALL SOURCE INFORMATION CONTAINED HEREIN.

CERTAIN INFORMATION CONTAINED IN THIS REPORT MAY CONSTITUTE "FORWARD - LOOKING STATEMENTS," WHICH CAN BE IDENTIFIED BY THE USE OF TERMINOLOGY SUCH AS "MAY," "WILL," "SHOULD," "EXPECT," "AIM," "ANTICIPATE," "TARGET," "PROJECT," "ESTIMATE," "INTEND," "CONTINUE" OR "BELIEVE," OR THE NEGATIVES THEREOF OR OTHER VARIATIONS THEREON OR COMPARABLE TERMINOLOGY. ANY FORWARD - LOOKING STATEMENTS, FORECASTS, PROJECTIONS, VALUATIONS, OR RESULTS IN THIS PRESENTATION ARE BASED UPON CURRENT ASSUMPTIONS. CHANGES TO ANY ASSUMPTIONS MAY HAVE A MATERIAL IMPACT ON FORWARD-LOOKING STATEMENTS, FORECASTS, PROJECTIONS, VALUATIONS, OR RESULTS. ACTUAL RESULTS MAY THEREFORE BE MATERIALLY DIFFERENT FROM ANY FORECASTS, PROJECTIONS, VALUATIONS, OR RESULTS IN THIS PRESENTATION.

PERFORMANCE DATA CONTAINED HEREIN REPRESENT PAST PERFORMANCE. PAST PERFORMANCE IS NO GUARANTEE OF FUTURE RESULTS.