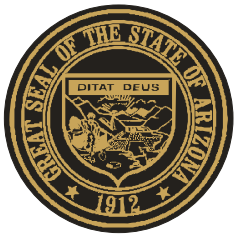
OFFICE OF THE

ARIZONA STATE TREASURER



JEFF DEWIT
TREASURER

OCTOBER 2017

Presented To:

Arizona State Board of Investment

November 30th, 2017

STATE BOARD OF INVESTMENT

A G E N D A

November 30, 2017

1. Call to Order
2. Chairman Remarks
3. Approval of October 26, 2017 Minutes
4. Review of Treasurer's Monthly Reports
    A. Earnings Distribution; Investment Pools
    B. Operating Monies Invested Balances
    C. State Agency Pools Investments and Performance Reports
    D. LGIP Pools Investments and Performance Reports
    E. Earnings Distributed Endowment Funds
    F. Land Sales Monthly Proceeds Endowment Funds
    G. Endowment Investments and Performance Reports
5. Proposed Changes to the Investment Policy
    A. Review of Proposed Changes
    B. Public Comment on Proposed Changes
    C. Discussion and Action on Proposed Changes
6. Review and Approval of Proposed/Pending Securities Dealers
7. General Business
8. Call to the Public
9. Notice of Next Meeting
10. Adjournment

REPORT OF THE STATE TREASURER

FOR

November 30, 2017

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Minutes of
BOARD OF INVESTMENT MEETING

The regular meeting of the State Board of Investment was held on October 26, 2017 in the Office of the State Treasurer, 1700 West Washington, State Capitol, West Wing, Treasurer's Conference Room, Phoenix, Arizona. Treasurer DeWit called the meeting to order at approximately 1:32 p.m.

Members Present:

Jeff DeWit, Chair, State Treasurer
Harry A. Papp, CFA & Managing Partner, L. Roy Papp & Associate
Beth Ford, Treasurer, Pima County – Via Teleconference
Michael Smarik, Deputy State Comptroller, Arizona Department of Administration

Others Present:

Mark Swenson, Deputy Treasurer of Policy & Research, Arizona State Treasurer's Office
Lorraine Jones, Deputy Treasurer of Operations, Arizona State Treasurer's Office
Patty Humbert, Chief Investment Officer, Arizona State Treasurer's Office
Tim White, Senior Portfolio Manager, Arizona State Treasurer's Office
Dennis Stevenson, Portfolio Manager, Arizona State Treasurer's Office
Jake Richardson, Investment Analyst, Arizona State Treasurer's Office
Eric Stivers, Collateral Analyst, Arizona State Treasurer's Office
Michael Leslein, Investment Accounting Manager, Arizona State Treasurer's Office
Patrick Quigley, Assistant Deputy Treasurer of Finance, Arizona State Treasurer's Office
Dajana Zlaticanin, Communications Director, Arizona State Treasurer's Office

Pursuant to A.R.S. 35-311, the following reports for September, 2017 were submitted for the Board's approval:

Review of Treasurer's Monthly Reports:

Earnings Distribution; Investment Pools

Operating Monies Invested Balances

State Agency Pools Investments and Performance Reports

LGIP Pools Investments and Performance Reports

Earnings Distributed Endowment Funds

Land Sales Monthly Proceeds Endowment Funds

Endowment Investments and Performance Reports

1. **Call to Order:**
   Treasurer DeWit called the October 26, 2017 BOI meeting to order at approximately 1:32 p.m.

2. **Treasurers Comments:**
   Treasurer DeWit welcomed the board members and guests and thanked all present for attending the October 26, 2017 meeting.

3. **Approval of Minutes:**
   Mr. Papp made a motion to approve the September 26, 2017 report. Mr. Smarik seconded the motion. Motion carried.

4. **Review of Treasurer's Monthly Report**

Earnings Distribution – Investment Pools

Ms. Humbert reported the earnings distributed month-to-date, year-to-date, prior year-to-date, and investment management fees deposited in the General Fund for the month of September, 2017.

Ms. Humbert provided follow up to question by Mr. Brown asked at the last meeting of the municipals impacted by the recent natural disasters, which is held in Pool 10. Ms. Humbert provided the hard values of each individual bond and the maturity dates.

Ms. Humbert provided follow up to Mr. Brown's question from last month's meeting as to how can the total market value of assets in Pool 123 could be more than the total value of the Pool. Ms. Humbert reported there are a few reasons that the total market value of the fund can be less than the assets total market value. The first is if a security was purchased prior to month end, but settled after month end. The asset would show in the inventory, and there would be a payable due included in the total market value of the fund.

Operating Monies Average Invested Balance

Ms. Humbert reported the Operating Monies average invested balance for the month of September, 2017.

Review of Treasurer's Monthly Report – Agency Pools:

Ms. Humbert presented the monthly report for the Agency Pools portion of the Arizona State Treasurer's Office to the Board of Investment as follows:

State Agency Pools Portfolio Yield Analysis

Ms. Humbert reported the net yields for the State Agency Pools for the month of September, 2017.

Manager Allocation of Invested Monies for the State Agency Pools

Ms. Humbert reported the total market value of all of the State Agency Pools broken up to show the percent allocated to each individual State Agency Pool as of September 30, 2017.

Investments Outstanding in State Agency Pools

Ms. Humbert reported the total net assets, asset allocation, the weighted average life, the weighted average duration and the weighted average rating for the State Agency Investment Pools as of September 30, 2017.

Review of Treasurer's Monthly Report – LGIP Investment Pools:

Mr. Stevenson presented the monthly report for the LGIP Investment Pools portion of the Arizona State Treasurer's Office to the Board of Investment as follows:

LGIP (Pool 5) & LGIP GOV (Pool 7) Portfolio Yield Analysis

Mr. Stevenson reported the net yield for the LGIP and LGIP-Gov Pools and the comparison to the benchmark for the month of September, 2017.

Pool 500 & Pool 700 Portfolio Yield Analysis

Mr. Stevenson reported the net yield for the LGIP Medium Term Pools and the comparison to the benchmark for the month of September, 2017.

Manager Allocation of Invested Monies for the LGIP Pools

Mr. Stevenson reported the total market value invested in all of the LGIP Pools as a percentage of the total that was allocated to each of the LGIP, LGIP-Gov, and LGIP Medium Term Pools as of September 30, 2017.

LGIP Pools Investments and Performance Reports

Mr. Stevenson reported the total net assets, asset allocation, the weighted average life, the weighted average duration, and the weighted average rating on the LGIP, LGIP-Gov, and LGIP Medium Term pools for the month of September, 2017.

Review of Treasurer's Monthly Report – Endowments:

Mr. White presented the endowment portion of the monthly report of the Arizona State Treasurer's Office to the Board of Investment as follows:

Earnings Distributed Endowment Funds

Mr. White reported the earnings distributed for the Endowment Funds for the month of September, 2017.

Net Realized Capital Gains/Losses – Endowment Funds

Mr. White reported the net realized capital gains for the Endowment Fixed Income, S&P 500, S&P 400 and S&P 600 pools for the month of September, 2017 and fiscal year to date.

Endowment Funds Fixed-Income Pool Purchases & Sales

Mr. White reported the purchases and sales of the Endowment Fixed Income Pool for the month of September, 2017.

Equity Funds Purchases & Sales

Mr. White reported the purchases and sales (summary) of the Endowment Equity Pools for the month of September, 2017.

Investments Outstanding in Endowment Funds

Mr. White reported the par, book, market value, and unrealized gains/loss of the Endowment Funds as of September 30, 2017.

Performance of Investments in Endowment Funds

Mr. White reported the performance of the Endowment Funds for the current month, the year to date, trailing one year, trailing three years, trailing five years, and since inception for the Endowment Funds as of September 30, 2017.

Manager Allocation of Invested Monies for the Endowment Pools

Mr. White reported the percentage of the total market value of all of the Endowment investments allocated to each of the Endowment Pools, as of September 30, 2017.

Equity Holdings Investments Outstanding S&P 500

Mr. White reported the investments outstanding by portfolio characteristics and industry sector for the S&P 500 Pool as of September 30, 2017.

Equity Holdings Investments Outstanding S&P 400

Mr. White reported the investments outstanding by portfolio characteristics and industry sector for the S&P 400 Pool as of September 30, 2017.

Equity Holdings Investments Outstanding S&P 600

Mr. White reported the investments outstanding by portfolio characteristics and industry sector for the S&P 600 Pool as of September 30, 2017.

Fixed Income Investments and Performance Reports

Mr. White reported the total net assets, asset allocation, the weighted average life, the weighted average duration and the weighted average rating for the Fixed Income Pool for the month of September, 2017.

Endowment Investments and Performance Growth by Account Reports

Mr. White reported the performance and growth for each of the Endowment Funds from the inception date of each fund through the end of September 30, 2017.

Broker Activity Report

Ms. Humbert reported the quarterly broker activity for all internally managed pools for the period of July 1, 2017 through September 30, 2017.

Approval of Treasurer's Report

Ms. Ford made a motion to approve the Treasurer's Report with corrections as presented. Mr. Smarik seconded the motion. Motion carried.

5. **Proposed Changes to Investment Policy:**
   Ms. Humbert presented changes to the Investment Policy for approval by the Board.

   Mr. Smarik motioned to approve the changes to the Investment Policy as presented. Ms. Ford seconded the motion. Motion carried.

6. **Review and approval of Proposed/Pending Securities Dealers**
   There were no Proposed/Pending Securities Dealers.

7. **General Business:**
   There was no General Business.

8. **Call to the Public:**
   There was no Public comment.

   Mr. Papp provided the members of the board with a brief economic update.

9. **Notice of Next Meeting:**
   Treasurer DeWit advised the Board that the next regular meeting of the Board of Investment will be Thursday, November 30, 2017 at 1:30 p.m. at 1700 West Washington, State Capitol, West Wing, Treasurer's Conference Room, Phoenix, Arizona.

10. Adjournment:

Mr. Smarik made a motion to adjourn the BOI meeting. Mr. Papp seconded the motion. Upon unanimous approval the BOI Meeting was adjourned at 2:25 p.m.

Respectfully Submitted by:

_____
Christine Thurston
Executive Consultant II

Approved by:

_____ _____
Jeff DeWit, Chair Date

EARNINGS DISTRIBUTION - INVESTMENT POOLS
OCTOBER 2017

Recipient	Earnings Distributed OCTOBER 2017	Earnings Distributed Fiscal YTD 17/18	Earnings Distributed Fiscal YTD 16/17	Fiscal YTD Investment Management Fees Received
General Fund *	$1,679,657	$6,294,952	$5,370,407	
2 State Agencies - Full Faith & Credit	867,373	3,079,764	2,211,586	154,315
3 State Agencies - Diversified (Combined) **	1,165,914	4,806,404	3,142,579	256,122
4 State Agencies - Gov	831,625	3,125,670	1,953,194	168,637
5 LGIP	1,094,553	4,103,379	1,688,762	214,124
7 LGIP Gov	985,478	3,792,131	1,312,410	227,612
9A Public School Credit Enhancement ***	0	0	0	13,665
10 Restricted Operating	544,844	1,951,660	1,485,340	227,452
12 CAWCD Medium-Term	531,846	2,041,732	1,622,721	67,741
16 ECDH Medium-Term	576,058	2,204,137	1,899,158	72,221
Subtotal	**$8,277,348**	**$31,399,829**	**$20,686,157**	**$1,401,890**
NAV POOL				
500 LGIP - Med Term	470,225	1,853,324	1,170,596	61,198
700 LGIP - FF&C Med Term	159,680	718,386	538,718	26,995
Total	**$8,907,253**	**$33,971,539**	**$22,395,471**	**$1,490,083**
OCTOBER 2016 TOTALS	**$5,622,920**			**$1,456,492**

* Note: Pool 15 AHCCCS Operating Earnings are reported in General Fund
** Note: Pool 15 AHCCCS Operating Management Fees are reported in Pool 3 State Agencies Diversified (Combined)
*** Note: Pool 9A represents $80 million invested in School Funding Obligations; earnings on this investment revert to the General Fund

OPERATING MONIES
AVERAGE INVESTED BALANCE
Through October 31, 2017
(in millions)

Month	Fiscal Year 2015/2016	Fiscal Year 2016/2017	Fiscal Year 2017/2018
JULY	$1,795	$2,012	$1,635
AUGUST	1,554	1,504	1,303
SEPTEMBER	1,874	1,694	1,455
OCTOBER	1,701	1,672	1,473
NOVEMBER	1,686	1,633	
DECEMBER	1,734	1,693	
JANUARY	2,140	2,255	
FEBRUARY	2,295	2,306	
MARCH	2,092	1,968	
APRIL	2,407	1,961	
MAY	2,720	2,215	
JUNE	2,590	2,147	
Y-T-D Average	**$2,049**	**$1,922**	**$1,467**

Budget Stabilization Average Fund Balance - October 2017	**$456**
Total Average Cash Available - October 2017	**$1,929**

STATE AGENCY POOLS
PORTFOLIO EARNINGS ANALYSIS
OCTOBER 2017

FUND	DESCRIPTION	Current Month 10/31/17	Prior Month 09/30/17	Prior Year 10/31/16	Net Asset Value Per Share
2	STATE AGENCIES - FULL FAITH & CREDIT	930,070	803,287	579,297	0.9759
3	STATE AGENCIES - DIVERSIFIED				
	INTERNAL MANAGERS	1,431,334	1,459,378	1,096,027	1.0124
	EXTERNAL MANAGERS	143,229	129,568	109,068	0.9996
	FUND 3 TOTAL	1,574,563	1,588,945	1,205,095	1.0115
4	STATE AGENCIES - GOV	1,012,497	915,364	629,406	0.9975
9A	PUBLIC SCHOOL CREDIT ENHANCEMENT	101,849	84,508	N/A	0.9759
10	RESTRICTED OPERATING				
	INTERNAL MANAGERS	1,229,150	1,131,283	935,099	0.9970
	EXTERNAL MANAGERS	181,145	178,331	159,777	0.9997
	FUND 10 TOTAL	1,410,295	1,309,615	1,094,876	0.9975
12	CAWCD MEDIUM-TERM	531,846	506,761	408,751	1.0005
15	AHCCCS OPERATING	33,513	28,248	17,592	N/A
16	ECDH MEDIUM-TERM	576,058	549,502	460,359	0.9978
	TOTAL STATE AGENCIES	**6,170,692**	**5,786,230**	**4,395,376**	

STATE AGENCY POOLS
PORTFOLIO YIELD ANALYSIS
OCTOBER 2017

FUND	DESCRIPTION	Current Month 10/31/17	Prior Month 09/30/17	Prior Year 10/31/16
2	STATE AGENCIES - FULL FAITH & CREDIT	1.22%	1.16%	0.68%
	75% MERRILL 0-1 US TREAS INDEX / 25% MERRILL US GNMA MORTGAGE BACKED INDEX	1.68%	1.60%	0.94%
3	STATE AGENCIES - DIVERSIFIED			
	INTERNAL MANAGERS	1.43%	1.44%	1.04%
	EXTERNAL MANAGERS	1.61%	1.51%	1.25%
	COMBINED	1.44%	1.44%	1.06%
	50% 3 MONTH LIBOR INDEX / 50% MERRILL 1-3 US BROAD MARKET INDEX	1.56%	1.50%	1.02%
4	STATE AGENCIES - GOV	1.25%	1.21%	0.79%
	50% MERRILL 6 MTH US T-BILL INDEX / 50% MERRILL 1-3 UNSUB. US TREAS / AGY INDEX	1.42%	1.34%	0.01%
9A	PUBLIC SCHOOL CREDIT ENHANCEMENT	1.22%	1.16%	N/A
10	RESTRICTED OPERATING			
	INTERNAL MANAGERS	1.54%	1.46%	1.18%
	EXTERNAL MANAGERS	0.91%	0.77%	0.62%
	COMBINED	1.41%	1.29%	1.04%
	50% 3 MONTH LIBOR INDEX / 50% MERRILL 1-3 US BROAD MARKET INDEX	1.56%	1.50%	1.02%
12	CAWCD MEDIUM-TERM	1.73%	1.69%	1.40%
	75% MERRILL 1-5 US D M INDEX / 25% S & P LGIP INDEX	1.74%	1.70%	1.23%
15	AHCCCS OPERATING	0.34%	0.32%	0.59%
16	ECDH MEDIUM-TERM	1.95%	1.89%	1.55%
	75% MERRILL 1-5 US D M INDEX / 25% S & P LGIP INDEX	1.74%	1.70%	1.23%

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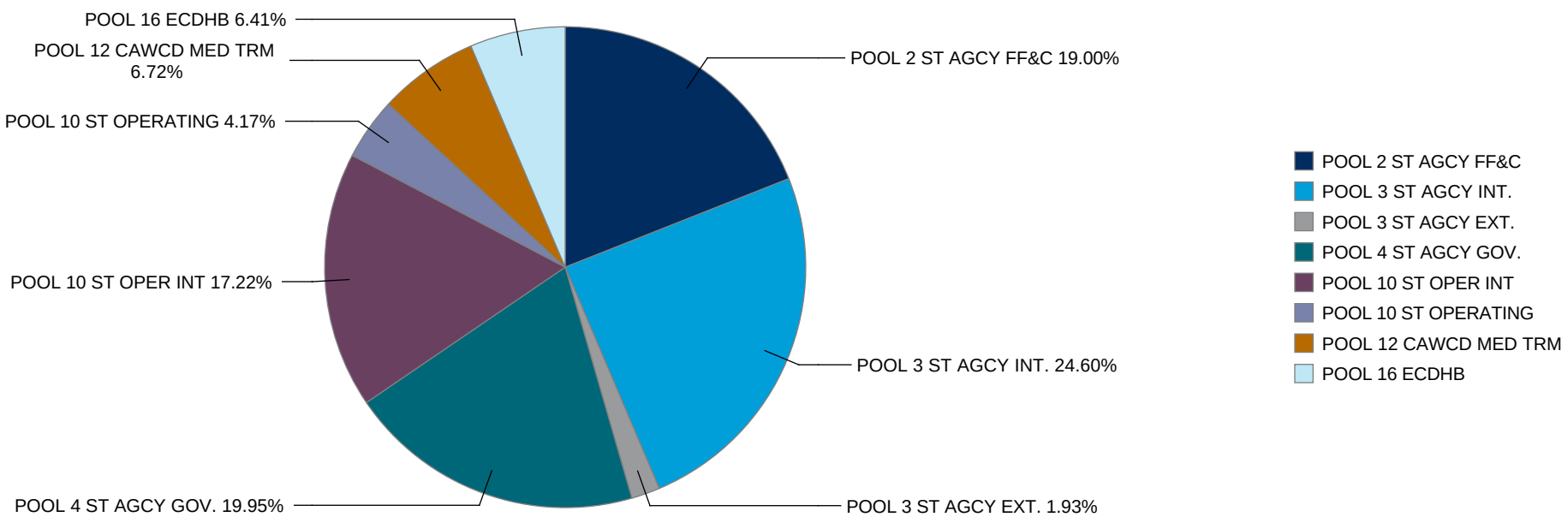
October 31, 2017

STATE AGENCY

Manager Allocation



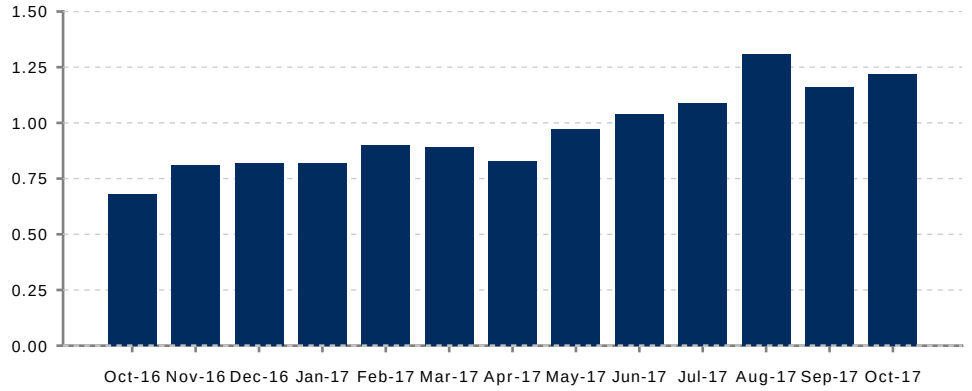
	Market Value	% of Portfolio
POOL 2 ST AGCY FF&C	1,031,450,779	19.0
POOL 3 ST AGCY INT.	1,335,159,065	24.6
POOL 3 ST AGCY EXT.	104,761,735	1.9
POOL 4 ST AGCY GOV.	1,082,711,782	19.9
POOL 10 ST OPER INT	934,933,927	17.2
POOL 10 ST OPERATING	226,221,311	4.2
POOL 12 CAWCD MED TRM	364,773,314	6.7
POOL 16 ECDHB	348,097,894	6.4
TOTAL STATE AGENCY	5,428,109,808	100.0

OFFICE OF THE ARIZONA STATE TREASURER

October 31, 2017

POOL 2 ST AGCY FF&C

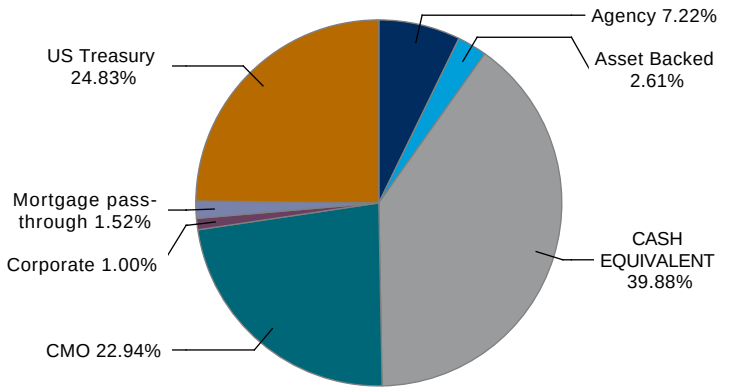
Net Yield



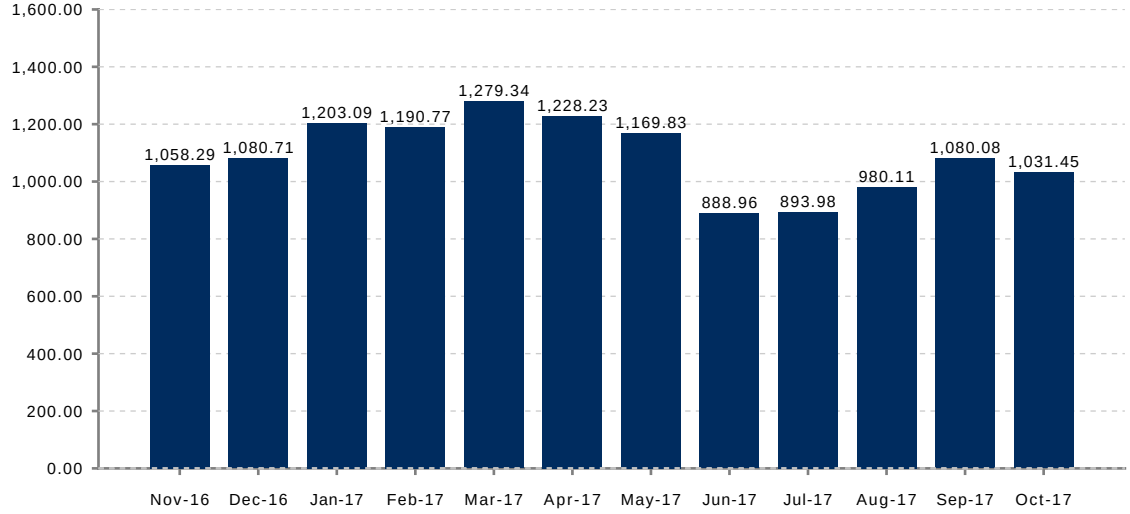
	Current Mth	Prior Mth	1 Year Ago
POOL 2 ST AGCY FF&C	1.22	1.16	0.68

Asset Allocation

	Ending Market Value
POOL 2 ST AGCY FF&C	1,031,450,779



Net Asset Values over Time ($MM)



Top 10 Holdings

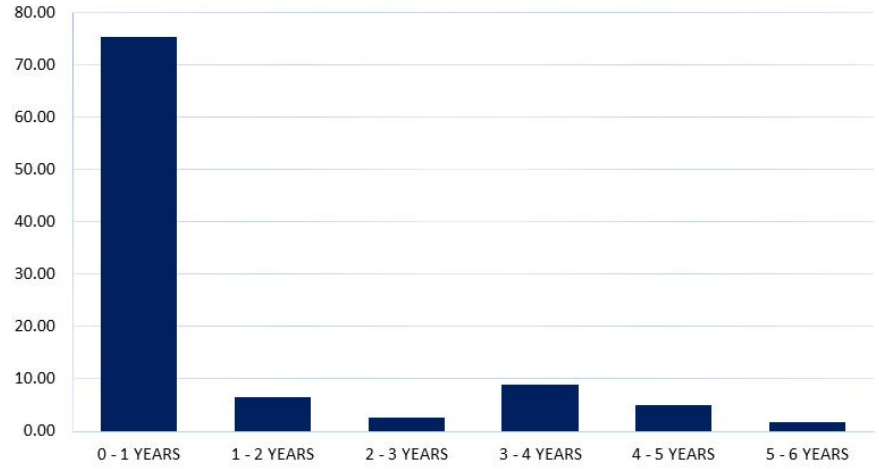
Security Name	Ending Market Value	% of Portfolio
POOL 2 ST AGCY FF&C		
DAIWA CAPITAL MARKETS	200,006,000	19.39
GUGGENHEIM SECURITIE	123,586,485	11.98
US TREASURY N/B	35,164,974	3.41
TREASURY BILL	29,951,178	2.90
US TREASURY N/B	20,289,710	1.97
US TREASURY N/B	20,240,014	1.96
US TREASURY N/B	20,015,606	1.94
CASH MGMT BILL	19,978,931	1.94
US TREASURY N/B	19,970,975	1.94
CASH MGMT BILL	19,964,763	1.94

OFFICE OF THE ARIZONA STATE TREASURER

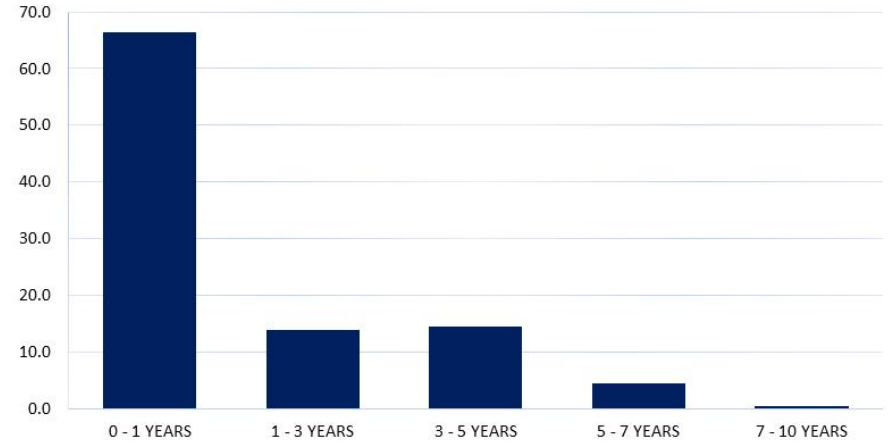
October 31, 2017

POOL 2 ST AGCY FF&C

Duration Distribution



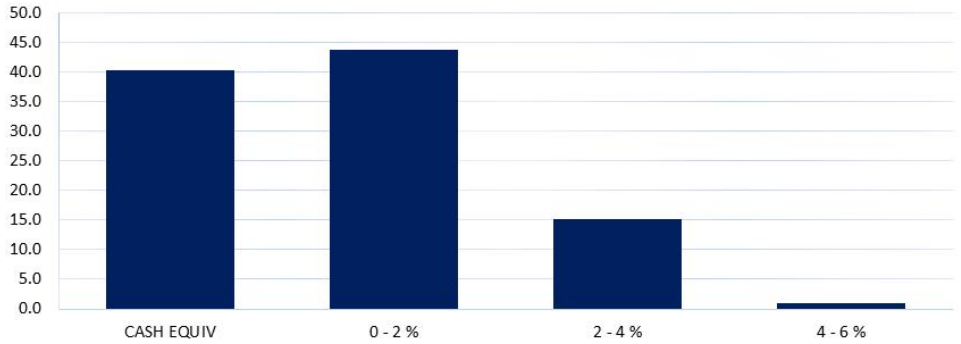
Expected Maturity Distribution



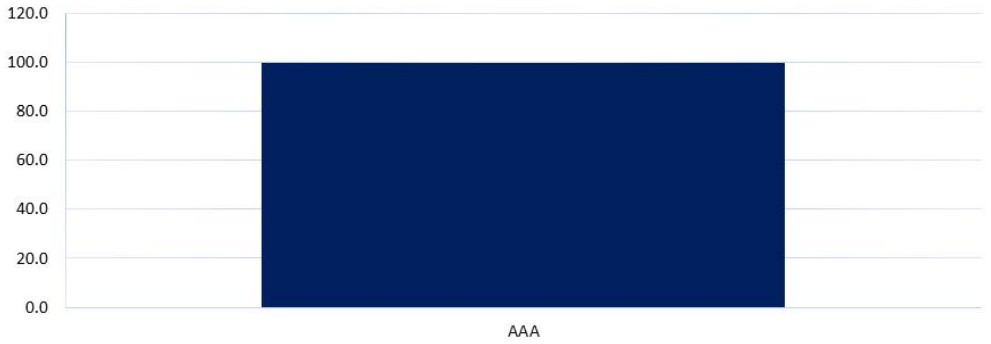
Portfolio Level Characteristics

	POOL 2 ST AGCY FF&C
Weighted Average Life	1.25
Coupon	1.30
Effective Duration	0.94
Quality Rating (Moody's)	AAA

Coupon Distribution



Rating Distribution



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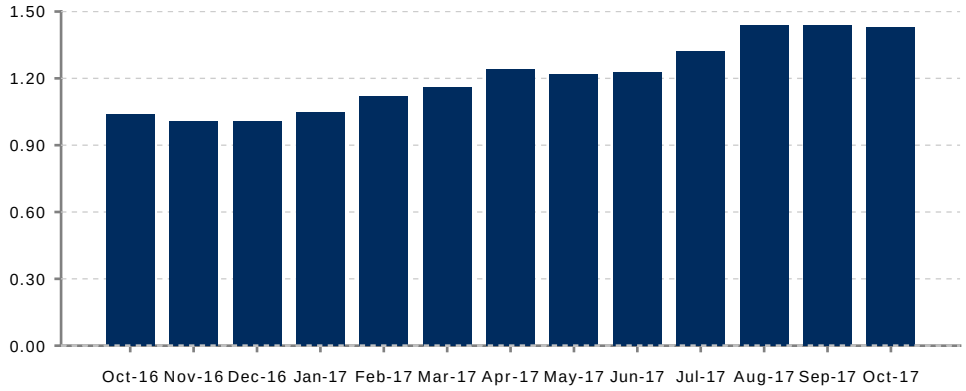
POOL 3 ST AGCY INT.

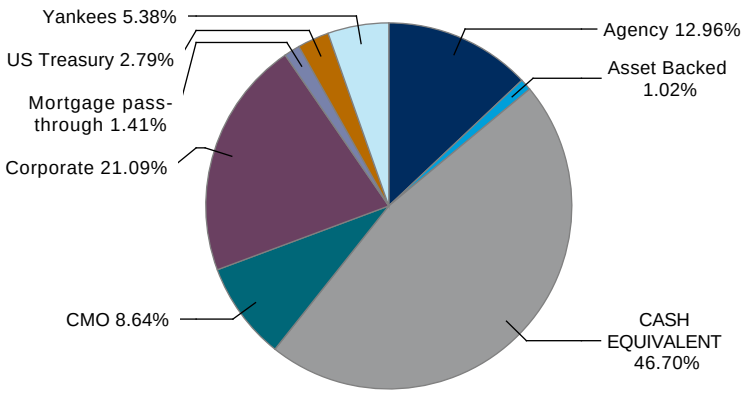
Net Yield



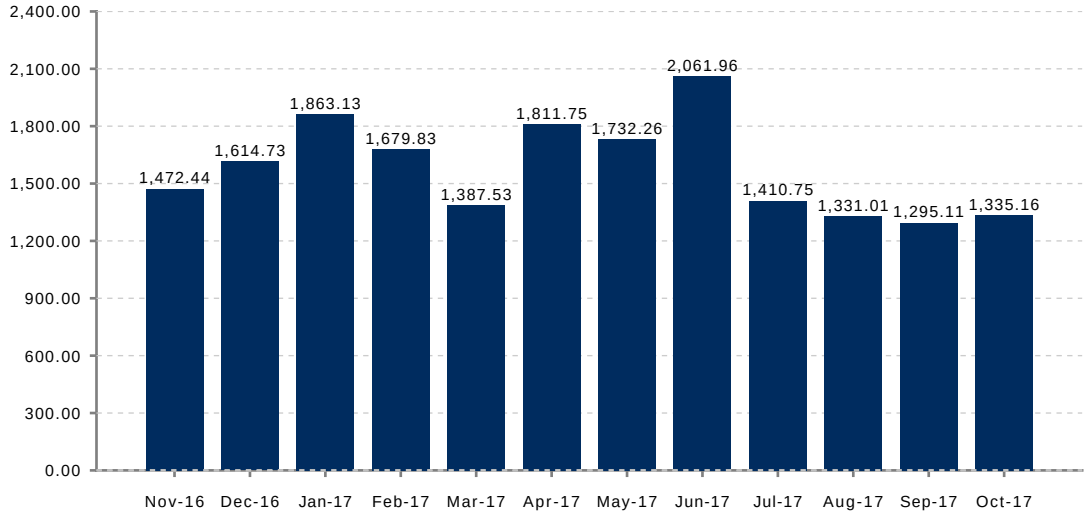
	Current Mth	Prior Mth	1 Year Ago
POOL 3 ST AGCY INT.	1.43	1.44	1.04

Asset Allocation

	Ending Market Value
POOL 3 ST AGCY INT.	1,335,159,065



Net Asset Values over Time ($MM)



Top 10 Holdings

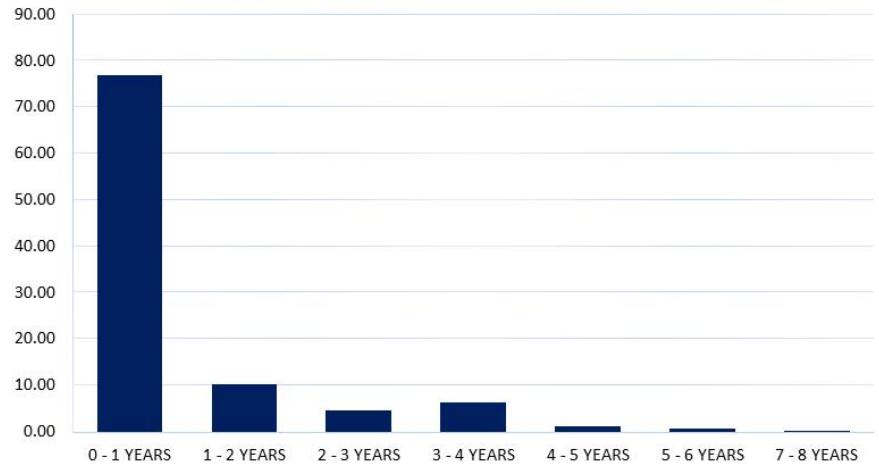
Security Name	Ending Market Value	% of Portfolio
POOL 3 ST AGCY INT.		
AMHERST PIERPONT	300,009,583	22.47
IBM CORP	30,106,666	2.25
HALKIN FINANCE LLC USC	30,000,000	2.25
INSTITUTIONAL SECURED	29,994,708	2.25
CONCORD MIN CPTL CO	29,973,350	2.24
MIZUHO BANK LTD	29,969,750	2.24
SUMITOMO TR & BKNG C	29,969,750	2.24
LEXINGTN PKR CAP CO LL	29,969,250	2.24
MANHATTAN ASSET FDG.	29,969,000	2.24
BANK TOKYO MIT UFJ NY	25,000,000	1.87

OFFICE OF THE ARIZONA STATE TREASURER

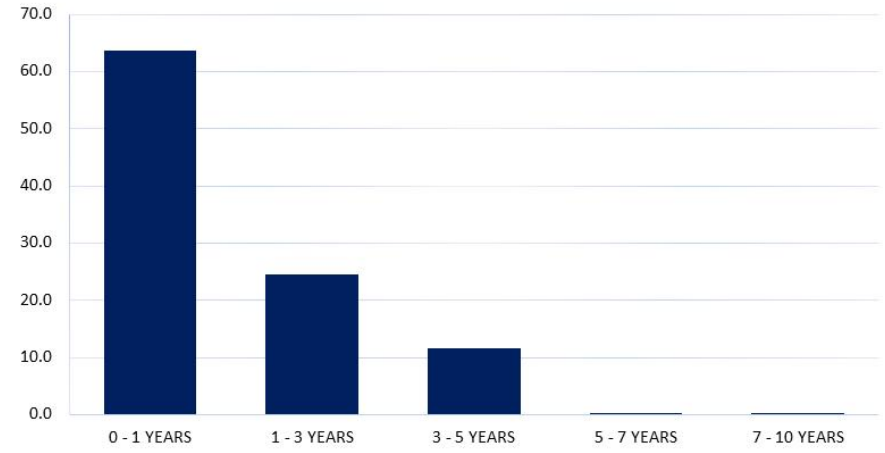
October 31, 2017

POOL 3 ST AGCY INT

Duration Distribution



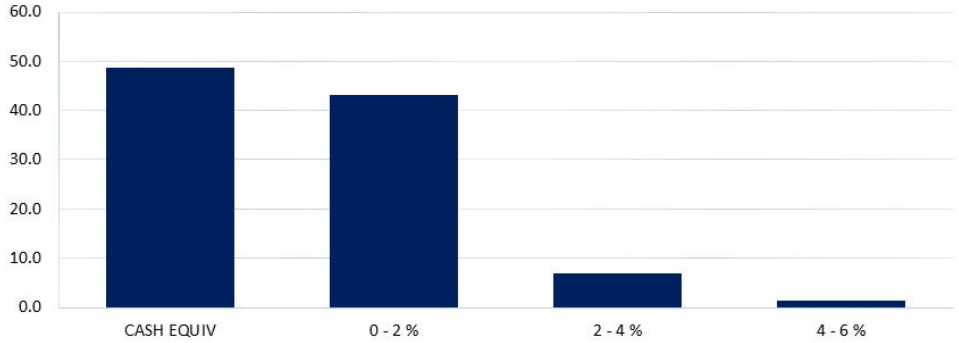
Expected Maturity Distribution



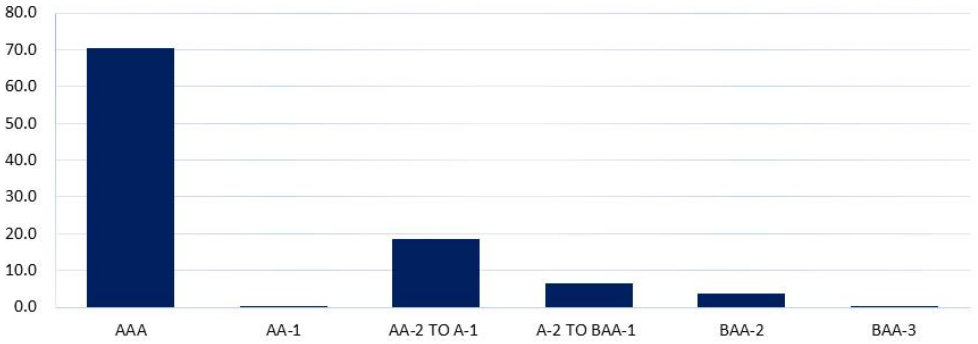
Portfolio Level Characteristics

	POOL 3 ST AGCY INT.
Weighted Average Life	0.99
Coupon	1.03
Effective Duration	0.64
Quality Rating (Moody's)	AA-2

Coupon Distribution



Rating Distribution



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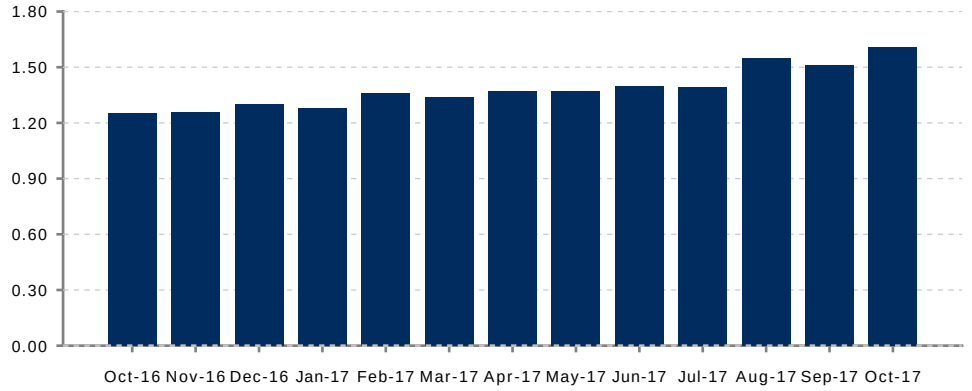
POOL 3 ST AGCY EXT.

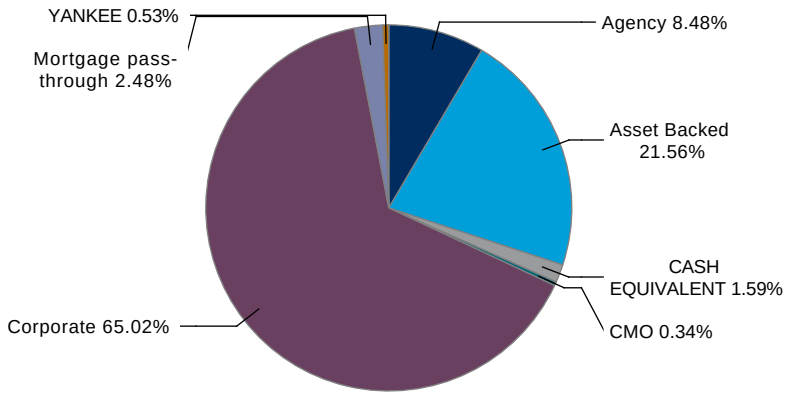
Net Yield



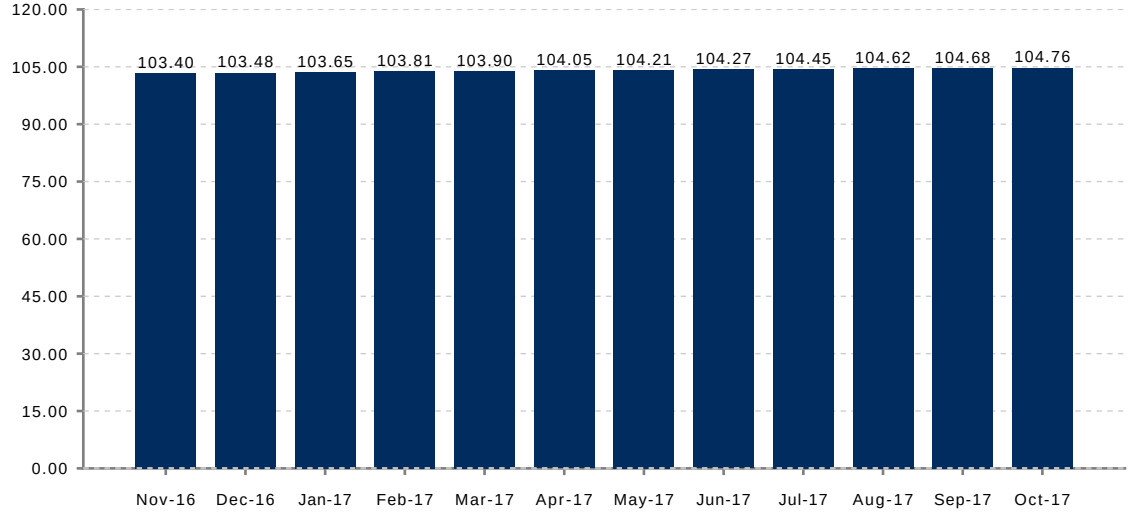
	Current Mth	Prior Mth	1 Year Ago
POOL 3 ST AGCY EXT.	1.61	1.51	1.25

Asset Allocation

	Ending Market Value
POOL 3 ST AGCY EXT.	104,761,735



Net Asset Values over Time ($MM)



Top 10 Holdings

Security Name	Ending Market Value	% of Portfolio
POOL 3 ST AGCY EXT.		
FANNIE MAE	2,972,658	2.84
FREDDIE MAC	2,788,932	2.66
DISCOVER CARD EXECUTION NOTE T	2,102,208	2.01
FANNIE MAE	1,985,879	1.90
BRANCH BANKING + TRUST	1,861,534	1.78
FNMA POOL MA1443	1,832,540	1.75
MANUF + TRADERS TRUST CO	1,816,079	1.73
CITIBANK NA	1,749,838	1.67
3M COMPANY	1,537,872	1.47
INTEL CORP	1,513,848	1.45

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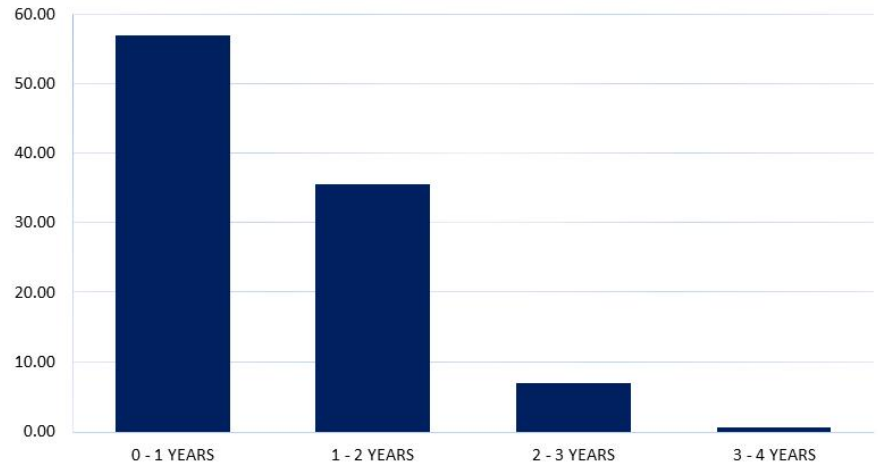
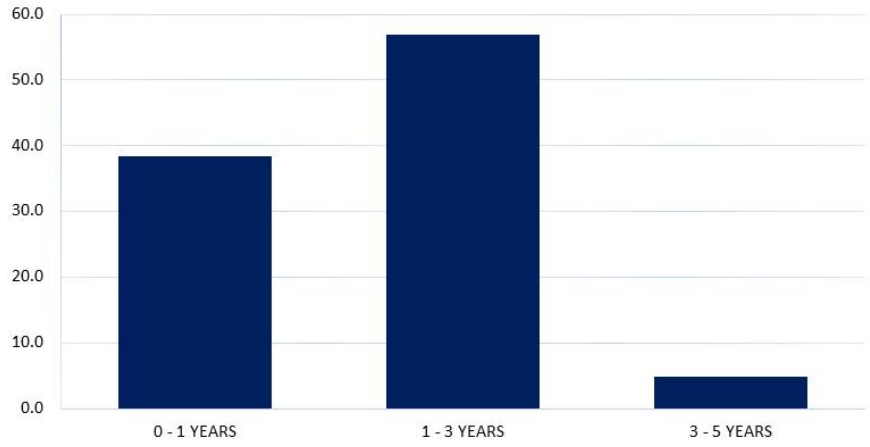
POOL 3 ST AGCY EXT

Duration Distribution



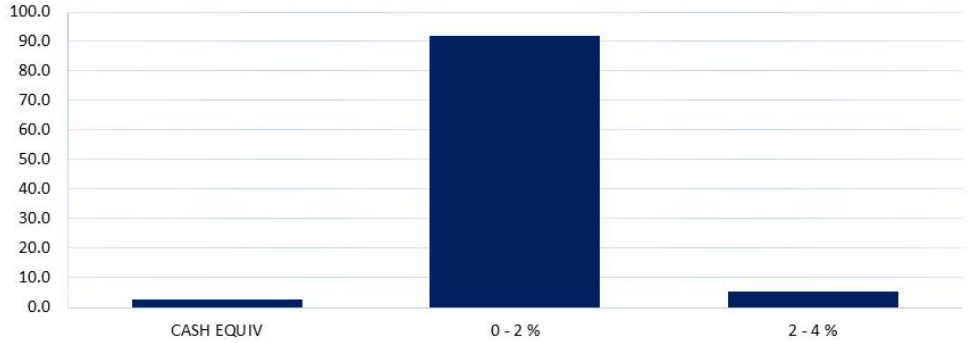
Expected Maturity Distribution



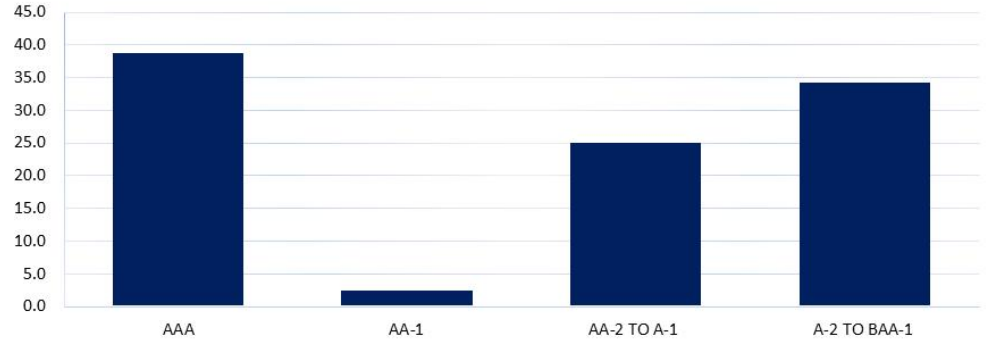
Portfolio Level Characteristics

	POOL 3 ST AGCY EXT.
Weighted Average Life	1.50
Coupon	1.38
Effective Duration	0.91
Quality Rating (Moody's)	A-1

Coupon Distribution



Rating Distribution



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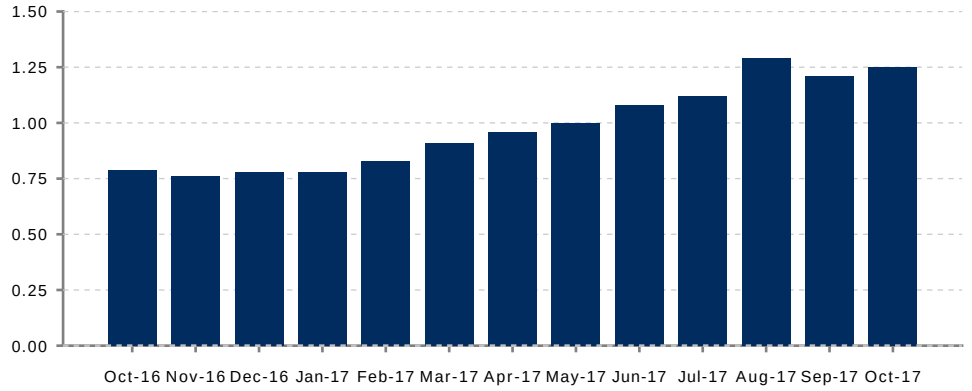
POOL 4 ST AGCY GOV.

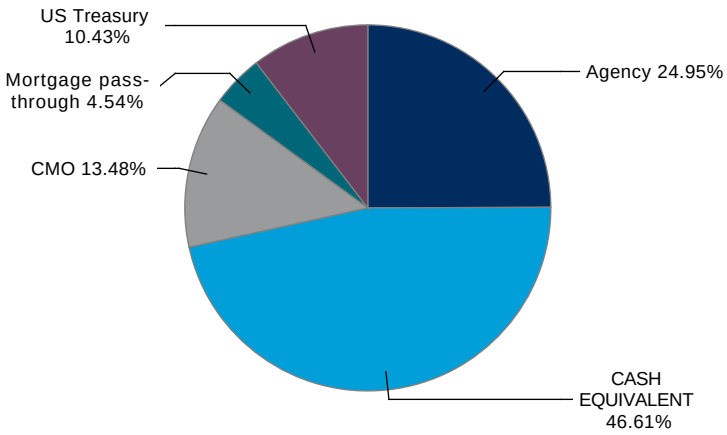
Net Yield



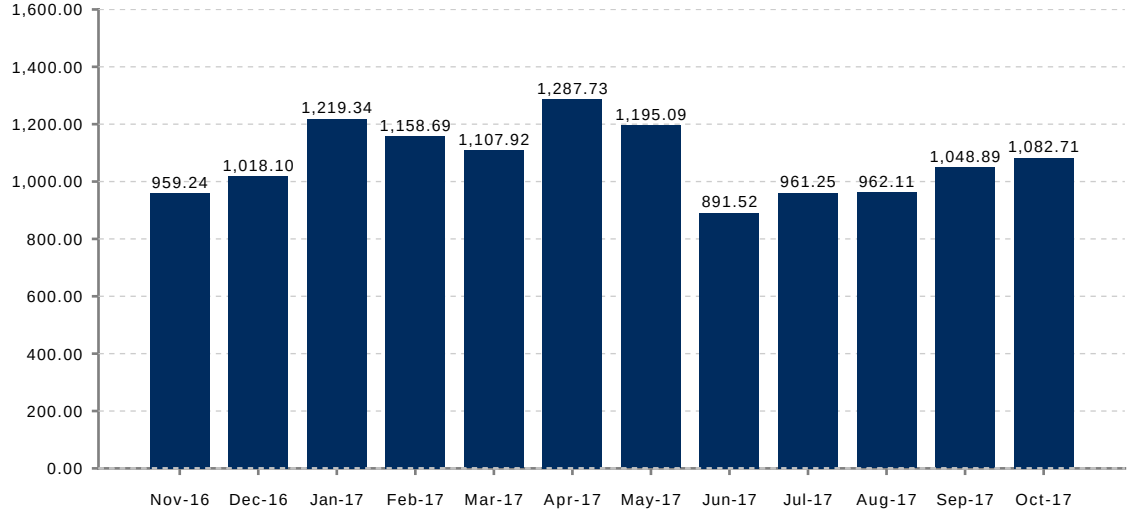
	Current Mth	Prior Mth	1 Year Ago
POOL 4 ST AGCY GOV.	1.25	1.21	0.79

Asset Allocation

	Ending Market Value
POOL 4 ST AGCY GOV.	1,082,711,782



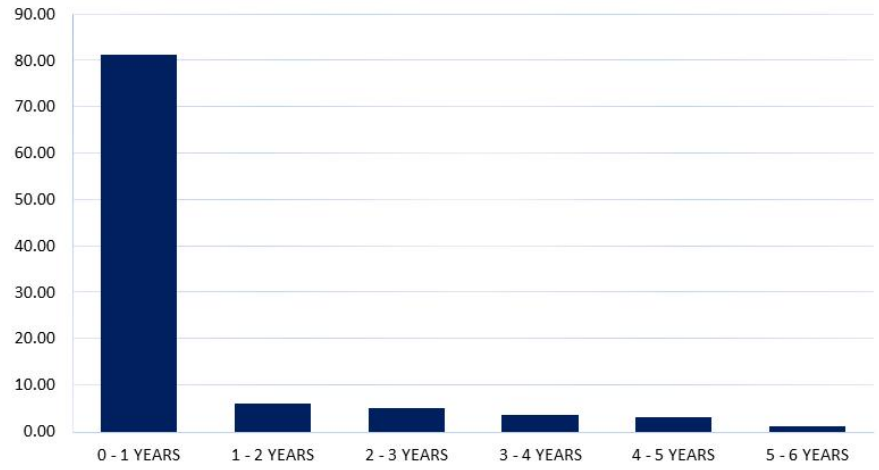
Net Asset Values over Time ($MM)



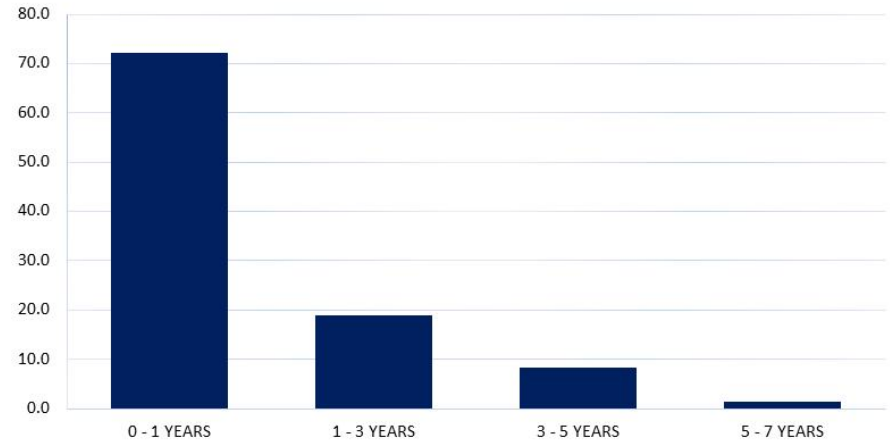
Top 10 Holdings

Security Name	Ending Market Value	% of Portfolio
POOL 4 ST AGCY GOV.		
SOUTH STREET REPO	275,009,319	25.40
SOUTH STREET REPO	51,012,595	4.71
FED HOME LN DISCOUNT NT	39,943,650	3.69
FED HOME LN DISCOUNT NT	37,394,293	3.45
US TREASURY N/B	30,141,406	2.78
FED HOME LN DISCOUNT NT	30,000,000	2.77
FARMER MAC	20,091,887	1.86
FEDERAL FARM CREDIT BANK	20,055,414	1.85
FEDERAL FARM CREDIT BANK	20,011,810	1.85
FED HOME LN DISCOUNT NT	19,984,133	1.85

Duration Distribution



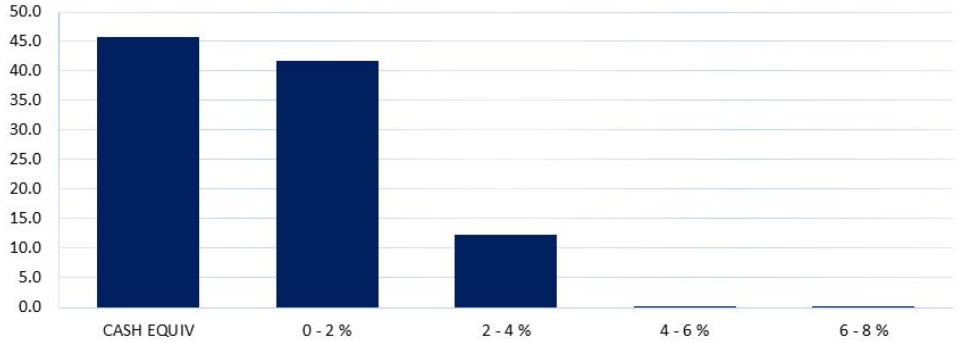
Expected Maturity Distribution



Portfolio Level Characteristics

	POOL 4 ST AGCY GOV.
Weighted Average Life	0.87
Coupon	1.08
Effective Duration	0.64
Quality Rating (Moody's)	AAA

Coupon Distribution



Rating Distribution

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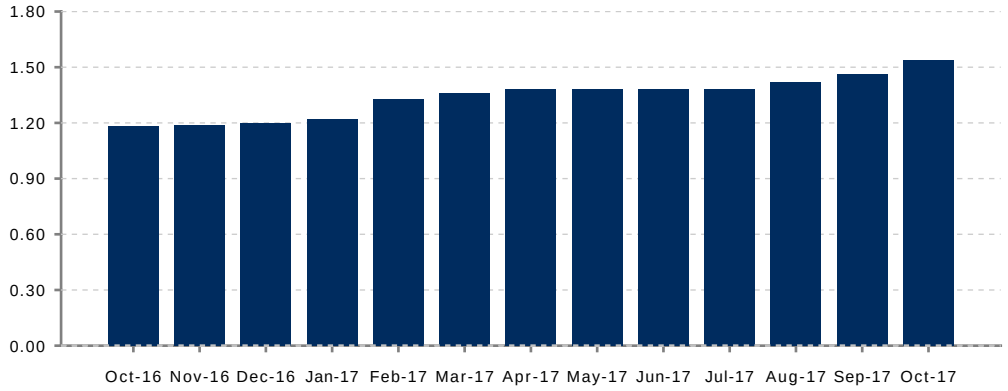
POOL 10 ST OPERATING INT

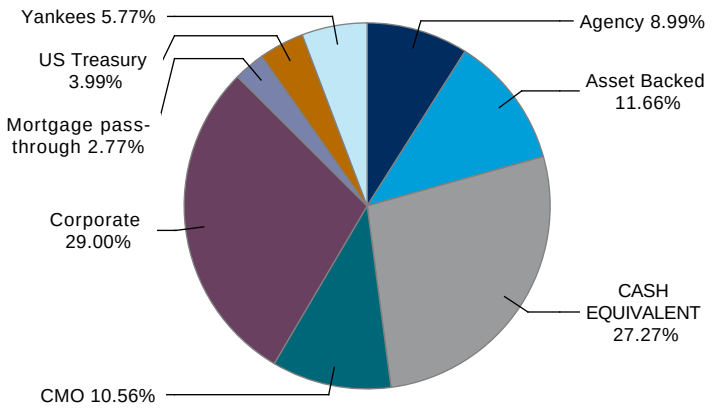
Net Yield



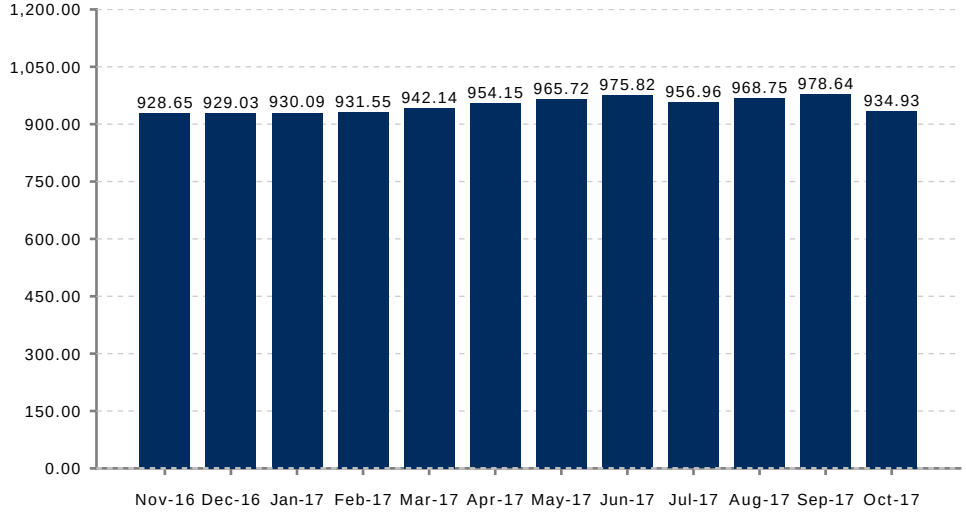
	Current Mth	Prior Mth	1 Year Ago
POOL 10 ST OPER INT	1.54	1.46	1.18

Asset Allocation

	Ending Market Value
POOL 10 ST OPER INT	934,933,927



Net Asset Values over Time ($MM)



Top 10 Holdings

Security Name	Ending Market Value	% of Portfolio
POOL 10 ST OPER INT		
SOUTH STREET REPO	32,011,309	3.42
STARBIRD FDG. CORP	24,942,736	2.67
VICTORY RECEIVABLES	24,942,736	2.67
US TREASURY N/B	20,110,605	2.15
BANK OF NOVA SCOTIA	20,025,097	2.14
CONCORD MIN CPTL CO	19,994,000	2.14
ATLANTIC ASSET SECUR	19,958,622	2.13
NIEUW AMSTERDAM RECV	19,952,750	2.13
BEDFORD ROW FDG CORP	19,782,776	2.12
SECURITIZED TERM AUTO RECEIVAB	18,019,880	1.93

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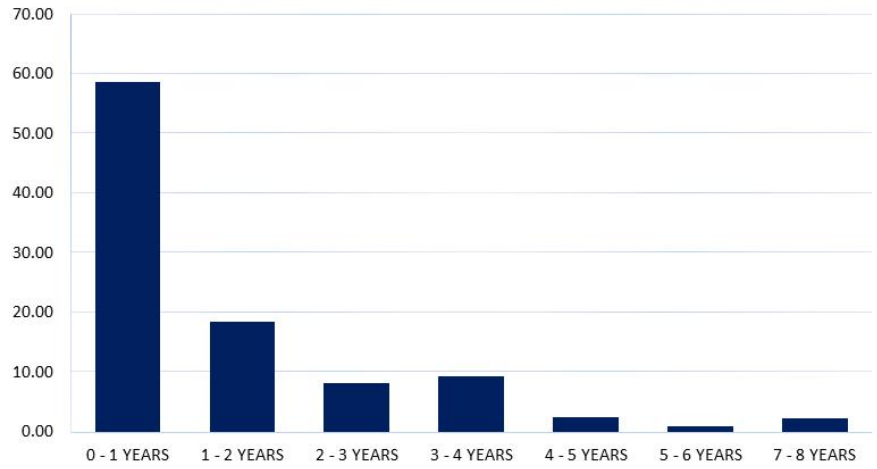
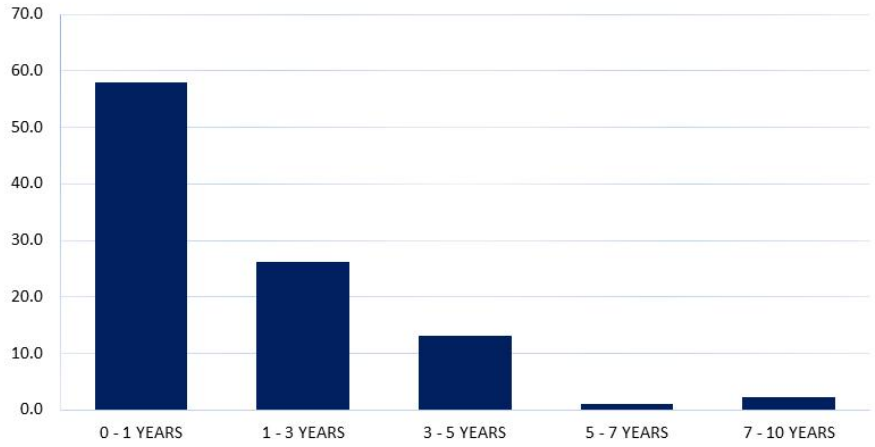
POOL 10 ST OPERATING INT

Duration Distribution



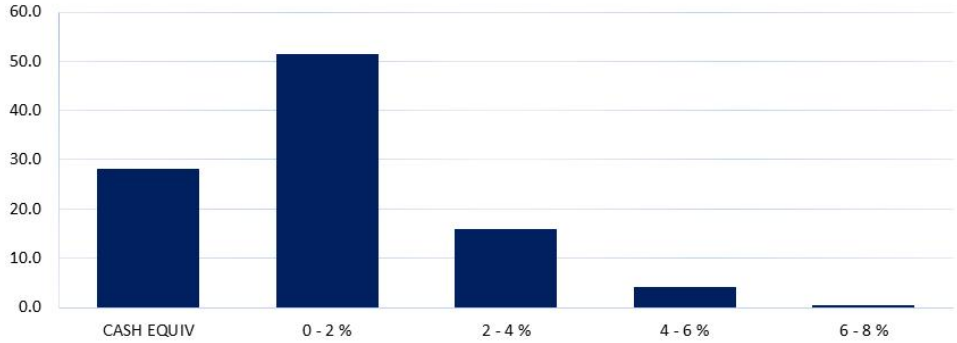
Expected Maturity Distribution



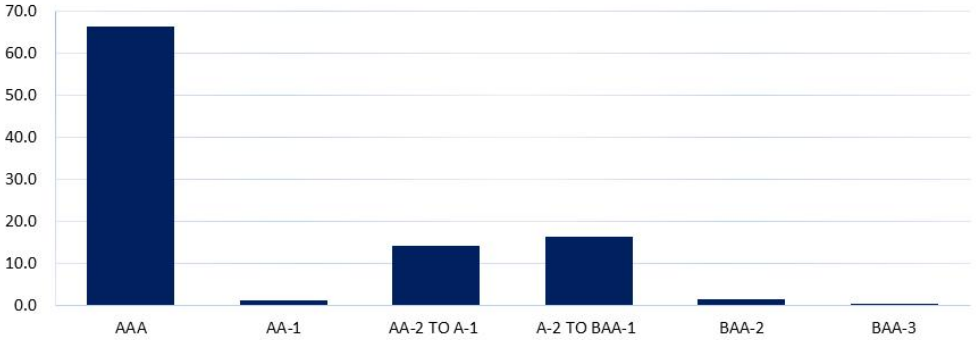
Portfolio Level Characteristics

	POOL 10 ST OPERATING INT
Weighted Average Life	1.41
Coupon	1.47
Effective Duration	1.29
Quality Rating (Moody's)	AA-2

Coupon Distribution



Rating Distribution



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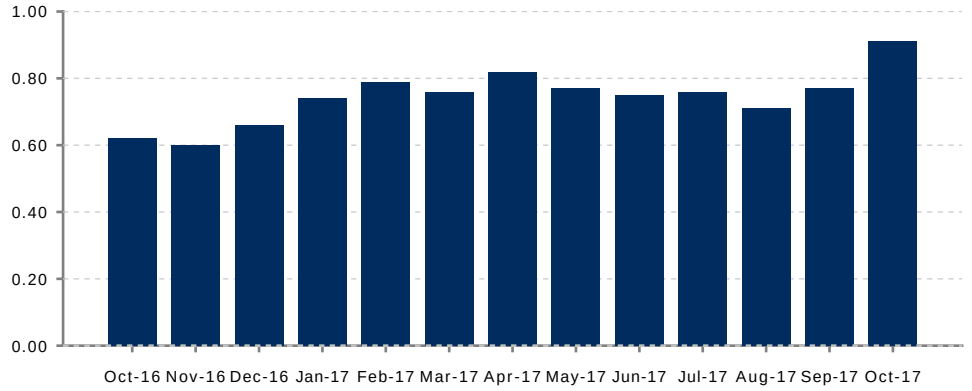
POOL 10 ST OPERATING Ext

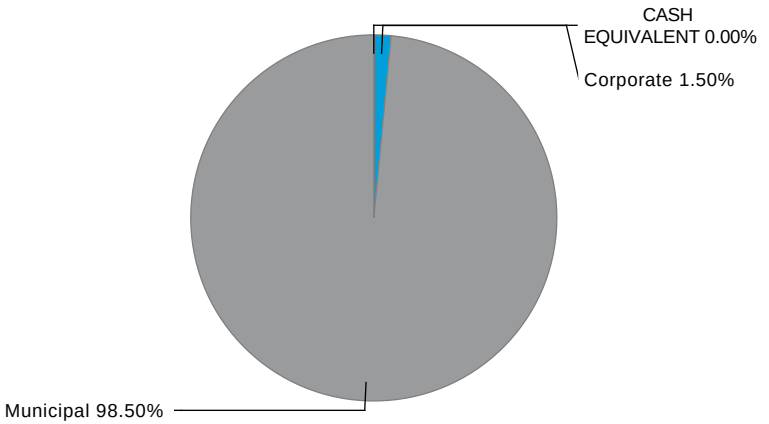
Net Yield



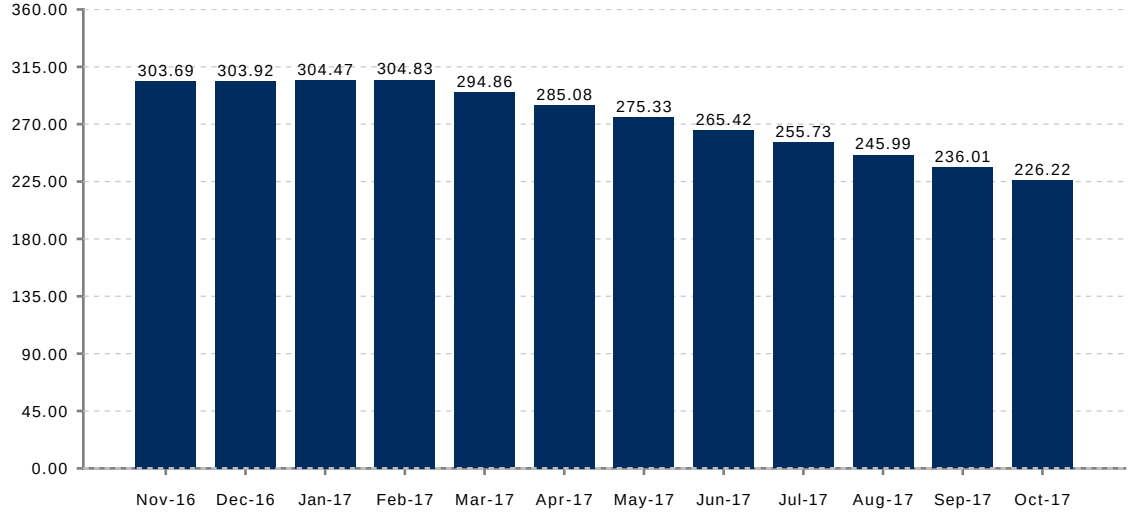
	Current Mth	Prior Mth	1 Year Ago
POOL 10 ST OPERATING	0.91	0.77	0.62

Asset Allocation

	Ending Market Value
POOL 10 ST OPERATING	226,221,311



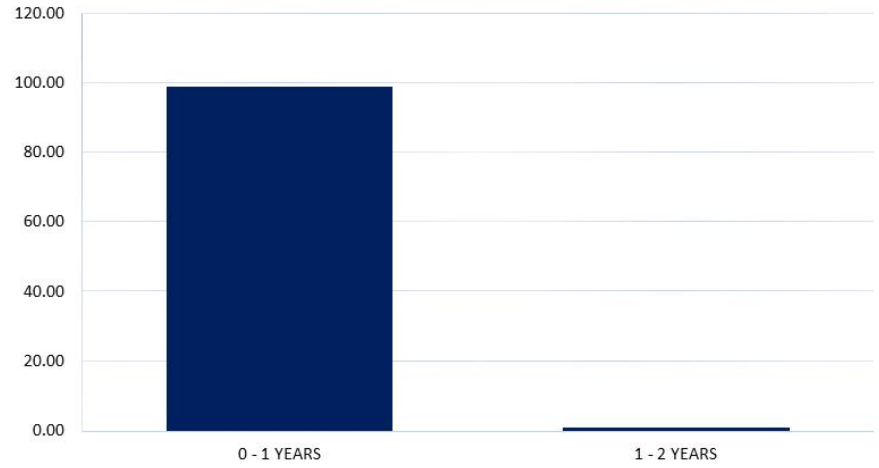
Net Asset Values over Time ($MM)



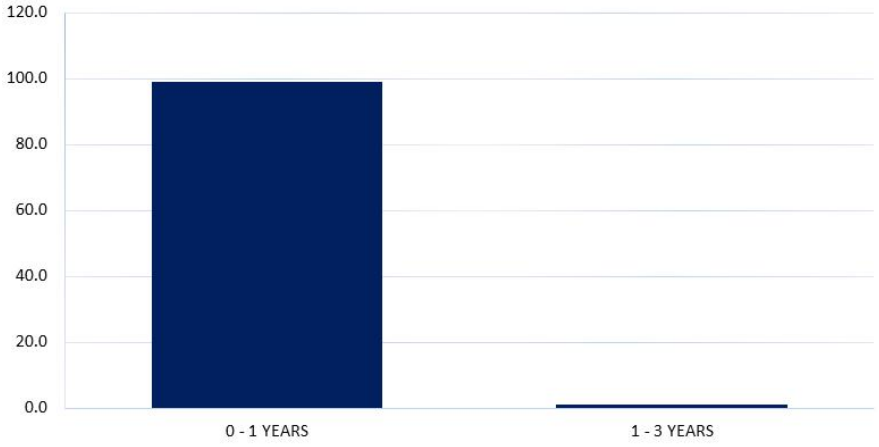
Top 10 Holdings

Security Name	Ending Market Value	% of Portfolio
POOL 10 ST OPERATING		
LOUISVILLE JEFFERSON	14,371,615	6.35
BALTIMORE CNTY MD	12,135,026	5.36
PENNSYLVANIA ST INDL D	10,476,632	4.63
VIRGINIA BEACH VA	10,224,100	4.52
CLARK CNTY NV ARPT RE	10,028,468	4.43
LOUDOUN CNTY VA INDL	10,007,510	4.42
NORTH BROWARD FL HOS	10,007,395	4.42
SPOKANE CNTY WA SCH	9,326,303	4.12
CONNECTICUT ST HLTH	8,981,624	3.97
UNIV OF ILLINOIS IL	8,706,123	3.85

Duration Distribution



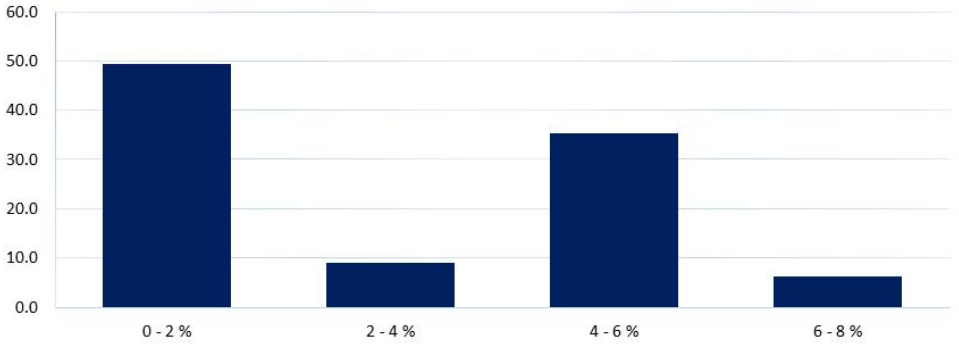
Expected Maturity Distribution



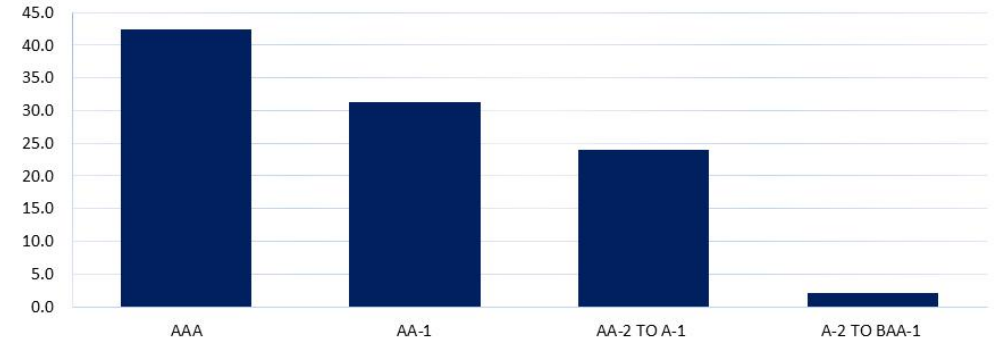
Portfolio Level Characteristics

	POOL 10 ST OPERATING
Weighted Average Life	0.22
Coupon	3.02
Effective Duration	0.23
Quality Rating (Moody's)	AA-1

Coupon Distribution



Rating Distribution



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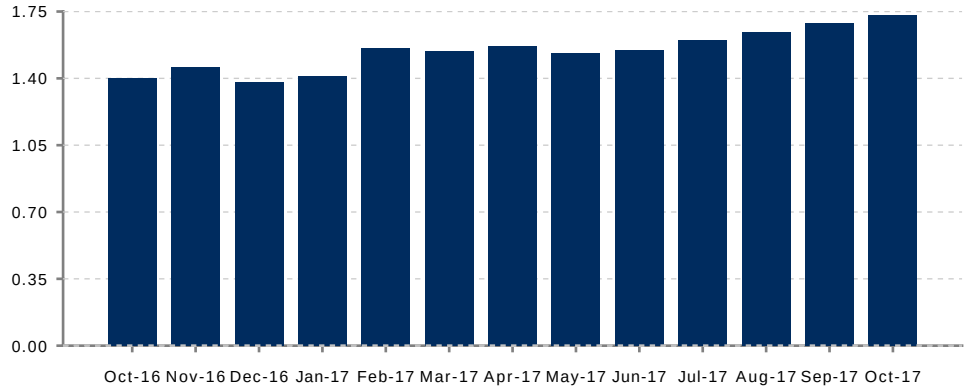
POOL 12 CAWCD MED TRM

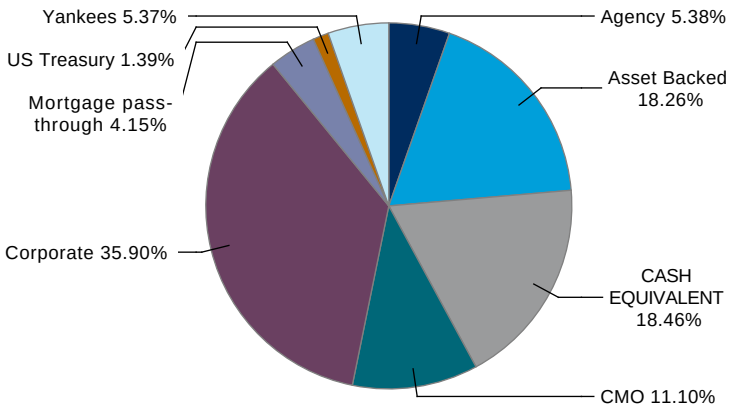
Net Yield



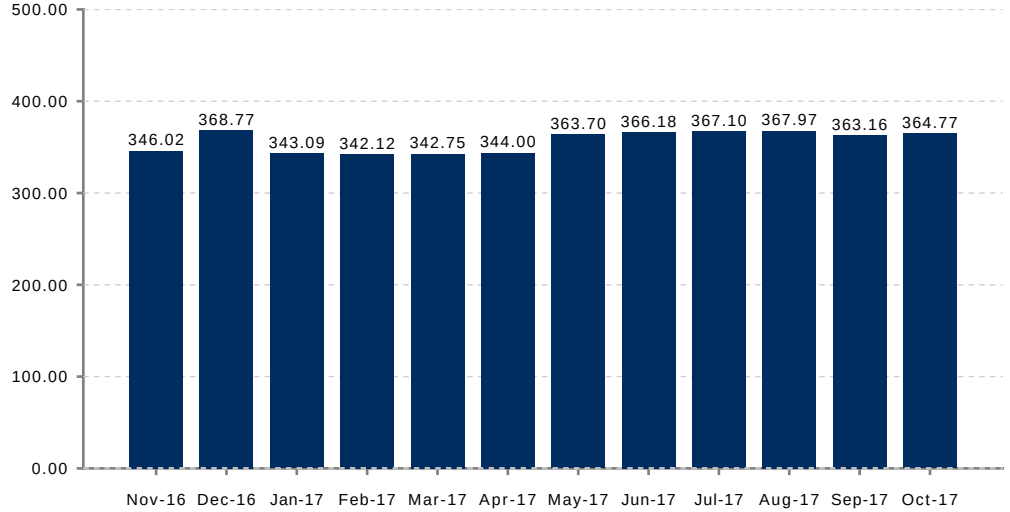
	Current Mth	Prior Mth	1 Year Ago
POOL 12 CAWCD MED TRM	1.73	1.69	1.40

Asset Allocation

	Ending Market Value
POOL 12 CAWCD MED TRM	364,773,314



Net Asset Values over Time ($MM)



Top 10 Holdings

Security Name	Ending Market Value	% of Portfolio
POOL 12 CAWCD MED TRM		
GUGGENHEIM SECURITIES REPO	13,227,272	3.63
GM FINANCIAL AUTOMOBILE LEASIN	10,006,828	2.74
FORD CREDIT AUTO OWNER TRUST	7,442,902	2.04
CNH EQUIPMENT TRUST	5,552,083	1.52
HONDA AUTO RECEIVABLES OWNER T	5,431,950	1.49
FANNIE MAE	5,389,893	1.48
AMGEN INC	5,042,360	1.38
CISCO SYSTEMS INC	5,038,169	1.38
CAPITAL ONE MULTI ASSET EXECUT	5,036,253	1.38
BRANCH BANKING + TRUST	5,031,174	1.38

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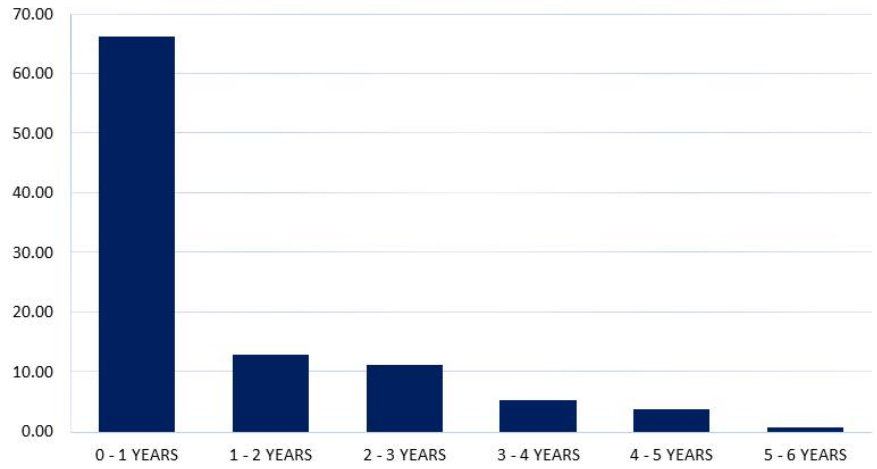
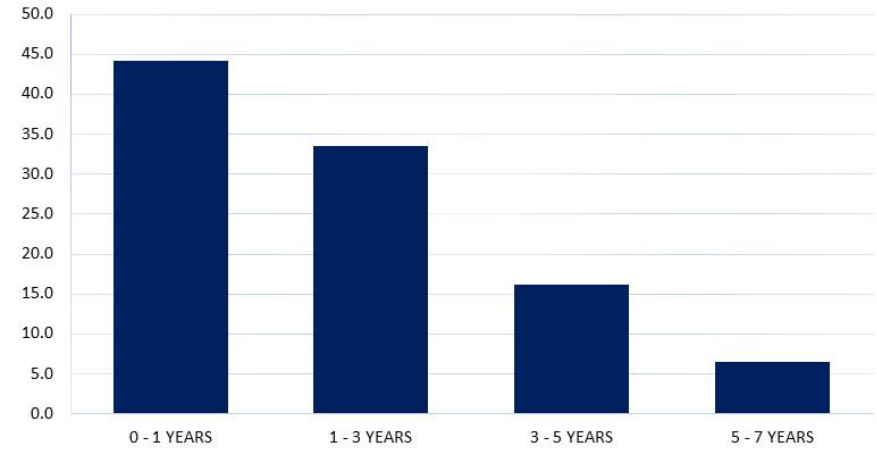
POOL 12 CAWCD MED TRM

Duration Distribution



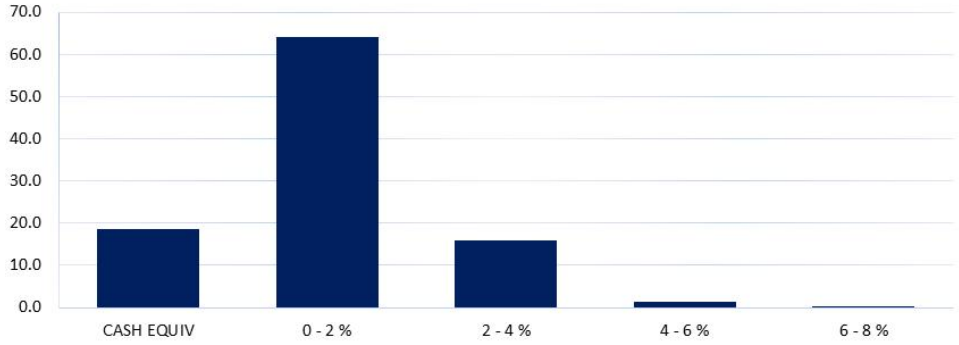
Expected Maturity Distribution



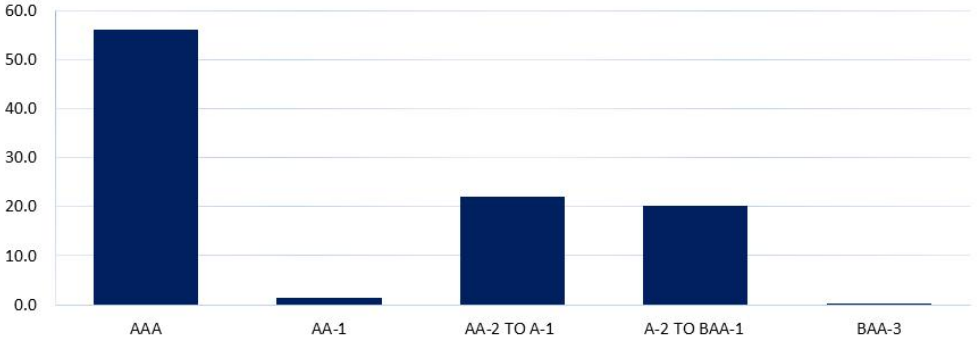
Portfolio Level Characteristics

	POOL 12 CAWCD MED TRM
Weighted Average Life	1.87
Coupon	1.46
Effective Duration	1.01
Quality Rating (Moody's)	AA-3

Coupon Distribution



Rating Distribution



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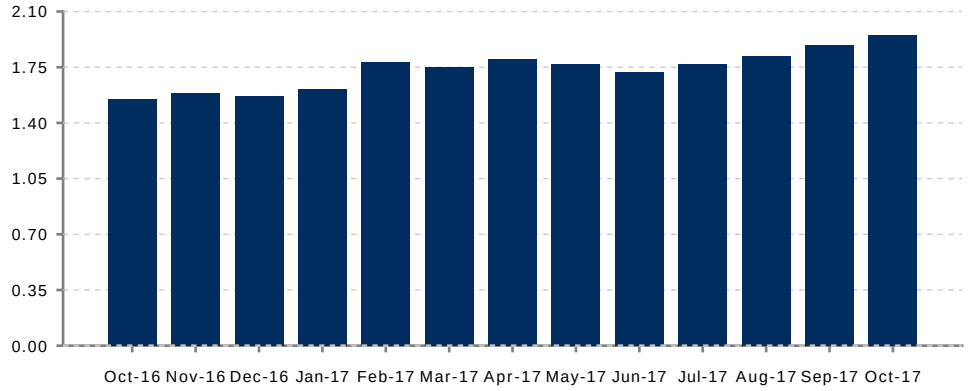
POOL 16 ECDHB

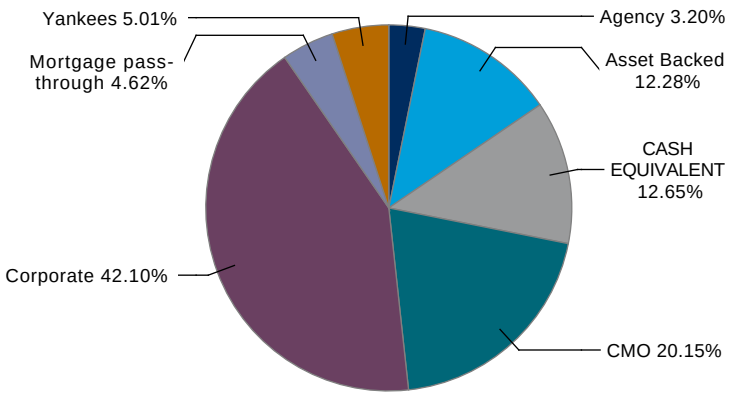
Net Yield



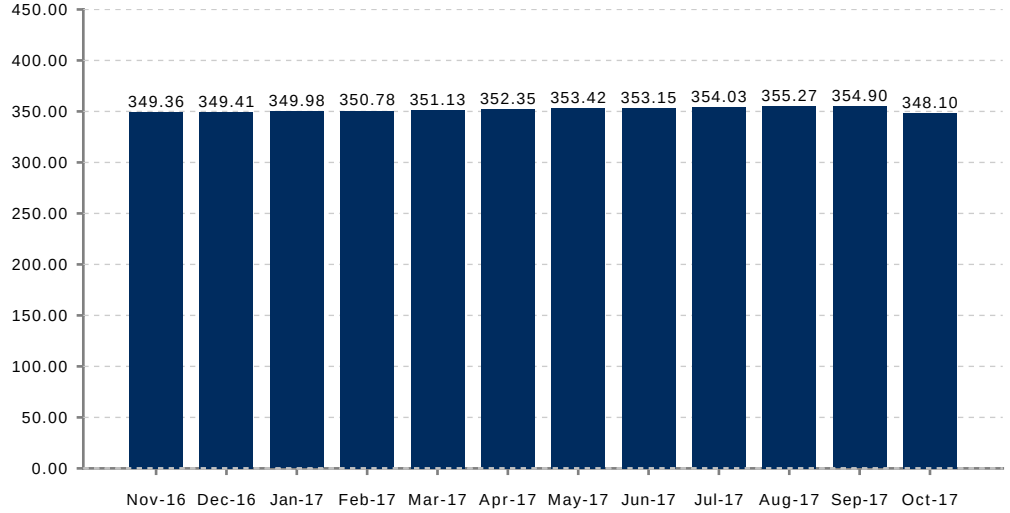
	Current Mth	Prior Mth	1 Year Ago
POOL 16 ECDHB	1.95	1.89	1.55

Asset Allocation

	Ending Market Value
POOL 16 ECDHB	348,097,894



Net Asset Values over Time ($MM)



Top 10 Holdings

Security Name	Ending Market Value	% of Portfolio
POOL 16 ECDHB		
FANNIE MAE	6,323,292	1.82
FREDDIEMAC STRIP	5,925,226	1.70
FHLMC MULTIFAMILY STRUCTURED P	5,141,104	1.48
GOVERNMENT NATIONAL MORTGAGE A	5,080,875	1.46
FANNIE MAE	5,076,788	1.46
ANHEUSER BUSCH INBEV FIN	5,040,294	1.45
CISCO SYSTEMS INC	5,038,169	1.45
CAPITAL ONE MULTI ASSET EXECUT	5,036,253	1.45
AMERICAN EXPRESS CO	5,032,152	1.45
AMERICAN EXPRESS CREDIT	5,031,851	1.45

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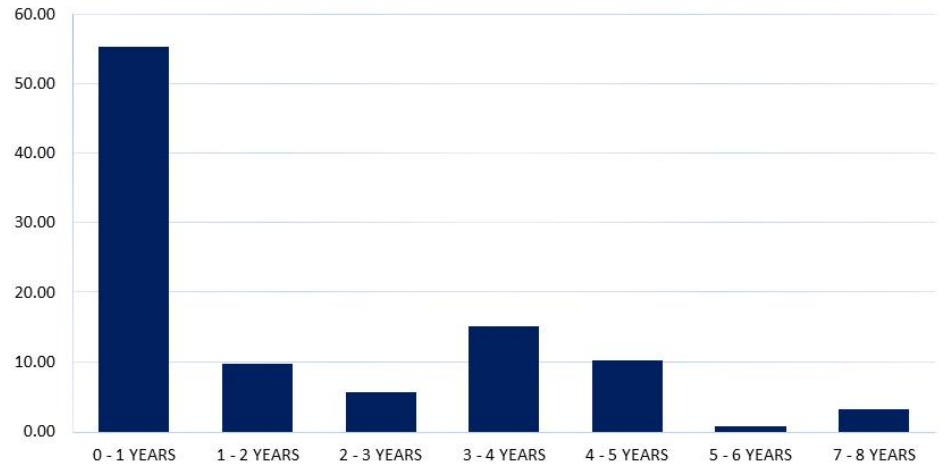
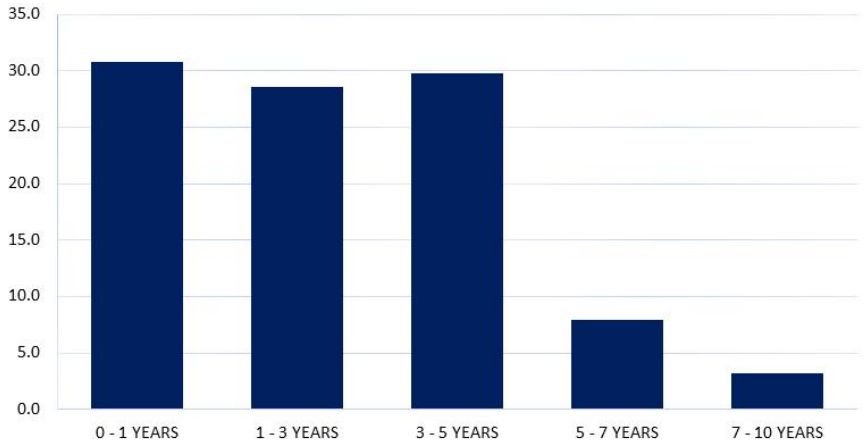
POOL 16 ECDHB

Duration Distribution



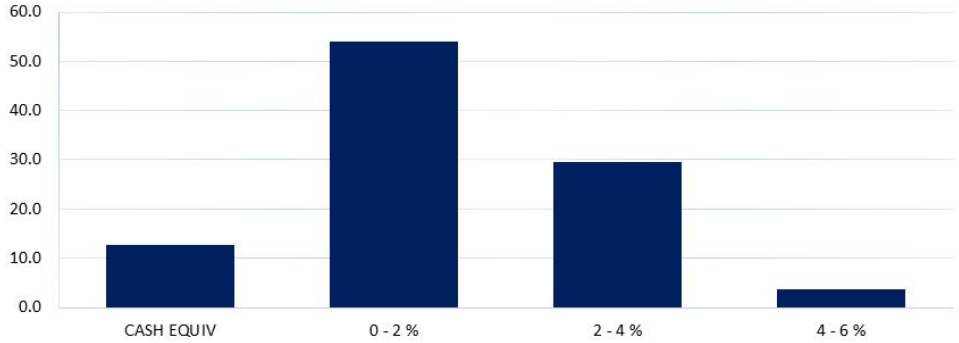
Expected Maturity Distribution



Portfolio Level Characteristics

	POOL 16 ECDHB
Weighted Average Life	2.62
Coupon	1.78
Effective Duration	1.69
Quality Rating (Moody's)	AA-3

Coupon Distribution



Rating Distribution

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LGIP & LGIP- GOV
PORTFOLIO YIELD ANALYSIS
OCTOBER 2017

NET EARNINGS

FUND	DESCRIPTION	Current Month 10/31/17	Prior Month 09/30/17	Prior Year 10/31/16	Net Asset Value Per Share
5	LGIP	1,103,075	958,526	**455,066**	1.0000
7	LGIP - GOV	1,003,582	907,552	**330,133**	1.0000
	TOTAL LGIP & LGIP-GOV	**2,106,656**	**1,866,078**	**785,199**	

YIELDS

	MONTHLY	Current Month 10/31/17	Prior Month 09/30/17	Prior Year 10/31/16
5	LGIP (NET)	1.09%	1.07%	**0.46%**
	S & P LGIP INDEX	1.05%	1.03%	**0.47%**
7	LGIP - GOV (NET)	1.00%	0.96%	**0.38%**
	3 MONTH T-BILL	1.08%	1.03%	**0.31%**
	YEAR TO DATE			
5	LGIP (NET)	1.07%	1.06%	**0.45%**
	S & P LGIP INDEX	1.00%	0.99%	**0.43%**
7	LGIP - GOV (NET)	0.94%	0.92%	**0.38%**
	3 MONTH T-BILL	1.05%	1.04%	**0.29%**

* Note: The LGIP-GOV Pool consists of only securities explicitly backed by the full faith & credit of the US Government.

LGIP & LGIP- GOV MEDIUM TERM POOLS
PORTFOLIO YIELD ANALYSIS
OCTOBER 2017

NET EARNINGS

FUND	DESCRIPTION	Current Month 10/31/17	Prior Month 09/30/17	Prior Year 10/31/16	Net Asset Value Per Share
500	LGIP - MED TERM POOL	470,225	466,151	308,834	1.0300
700	LGIP - FF&C MED TERM POOL	159,680	238,275	133,512	1.0057
	TOTAL LGIP MEDIUM TERM POOLS	629,905	704,426	442,346	

YIELDS

	MONTHLY	Current Month 10/31/17	Prior Month 09/30/17	Prior Year 10/31/16
500	LGIP - MED TERM (NET)	1.67%	1.75%	1.38%
	75% MERRILL 1-5 US D M INDEX / 25% S & P LGIP INDEX	1.74%	1.70%	1.23%
700	LGIP - FF&C MED TERM (NET)	1.28%	1.99%	1.08%
	75% MERRILL 1-5 US TREAS INDEX / 15% MERRILL US GNMA 15 YR INDEX / 10% MERRILL US 3 MO T-BILL INDEX	1.74%	1.64%	1.03%

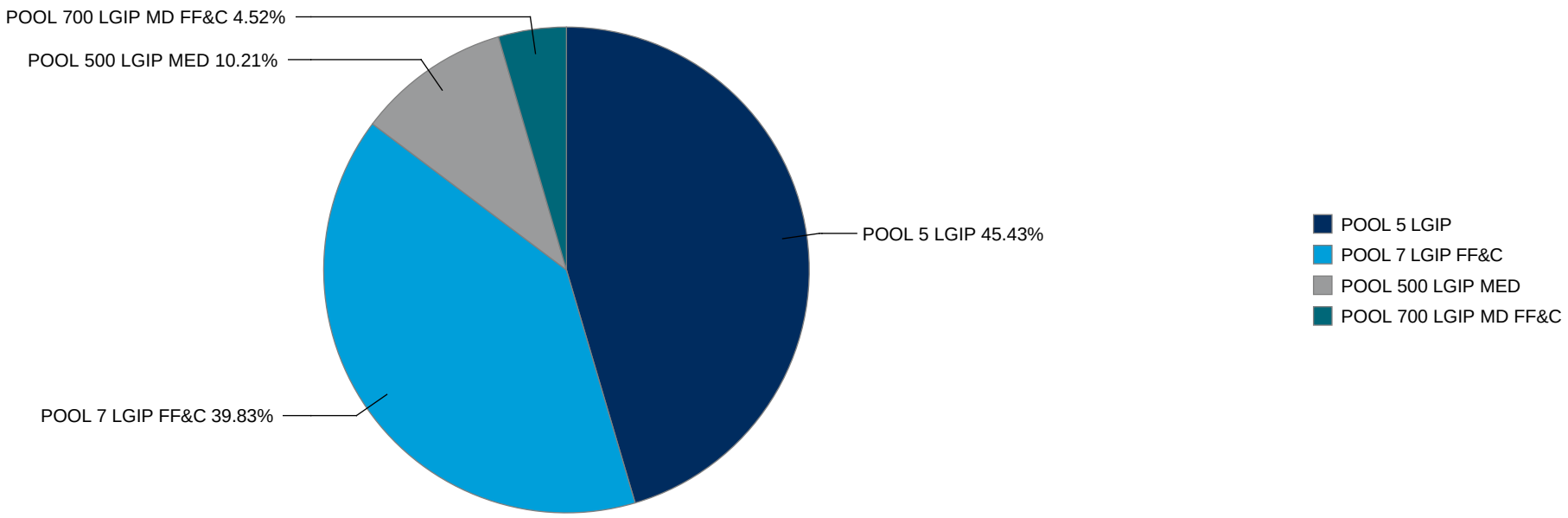
	YEAR TO DATE			
500	LGIP - MED TERM (NET)	1.68%	1.68%	1.34%
	75% MERRILL 1-5 US D M INDEX / 25% S & P LGIP INDEX	1.65%	1.62%	1.16%
700	LGIP - FF&C MED TERM (NET)	1.47%	1.53%	1.10%
	75% MERRILL 1-5 US TREAS INDEX / 15% MERRILL US GNMA 15 YR INDEX / 10% MERRILL US 3 MO T-BILL INDEX	1.58%	1.56%	0.94%

OFFICE OF THE ARIZONA STATE TREASURER

October 31, 2017

LGIP

Manager Allocation



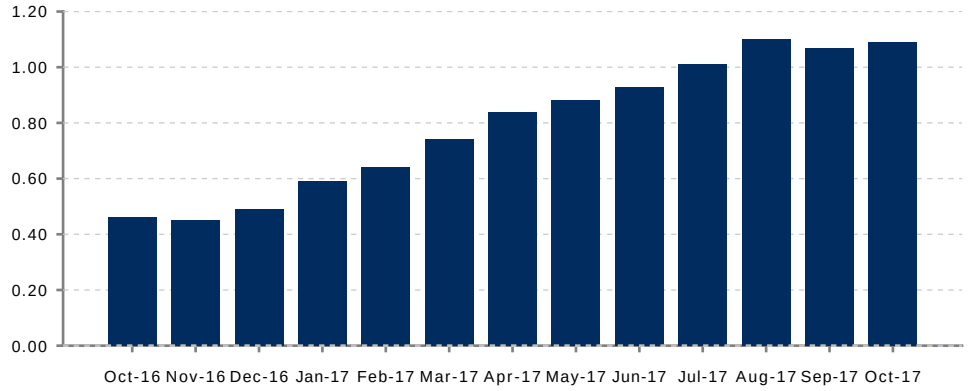
	Market Value	% of Portfolio
POOL 5 LGIP	1,478,433,179	45.4
POOL 7 LGIP FF&C	1,296,198,196	39.8
POOL 500 LGIP MED	332,403,651	10.2
POOL 700 LGIP MD FF&C	147,168,890	4.5
TOTAL LGIP	3,254,203,915	100.0

OFFICE OF THE ARIZONA STATE TREASURER

October 31, 2017

POOL 5 LGIP

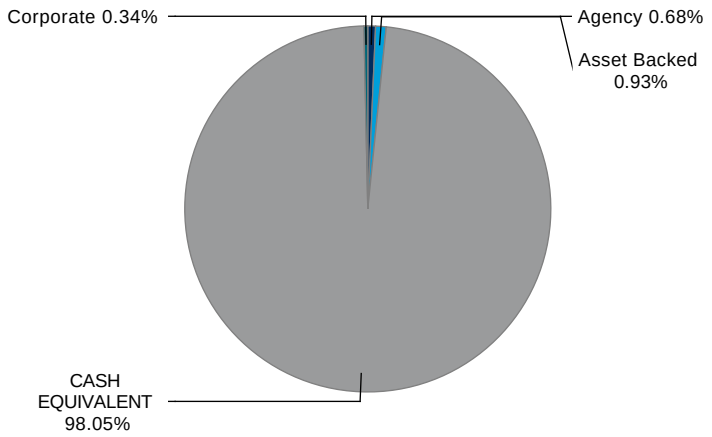
Net Yield



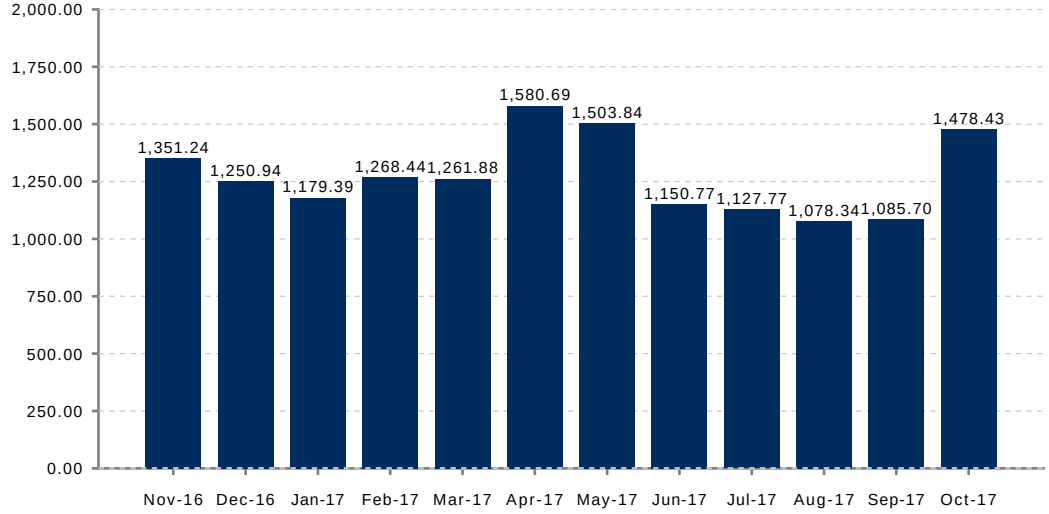
	Current Mth	Prior Mth	1 Year Ago
POOL 5 LGIP	1.09	1.07	0.46

Asset Allocation

	Ending Market Value
POOL 5 LGIP	1,478,433,179



Net Asset Values over Time ($MM)



Top 10 Holdings

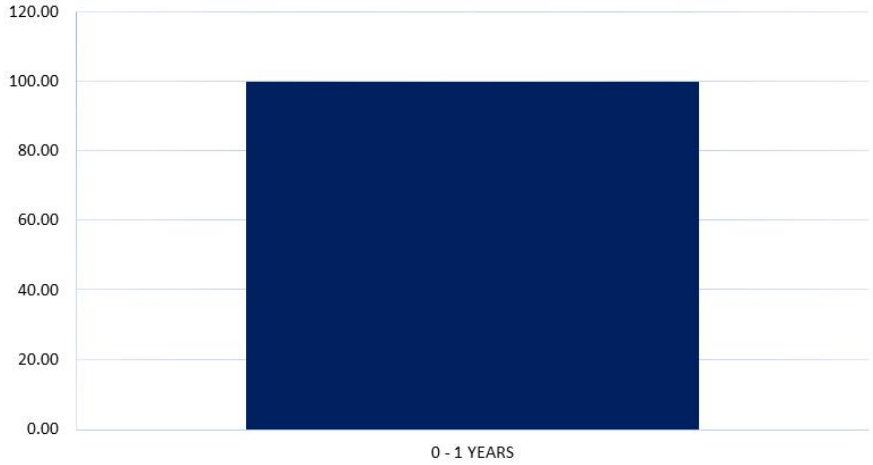
Security Name	Ending Market Value	% of Portfolio
POOL 5 LGIP		
BMO TRIPARTY MTGE CLAS/ISIT/RTRP MATU//20121224	250,007,222	16.91
WELLS FARGO REPO	220,006,478	14.88
WELLS FARGO REPO	119,970,641	8.11
RBC CAPITAL MARKETS REPO	100,002,833	6.76
BANK OF AMERICA REPO	100,002,778	6.76
FIDELITY INVESTMENTS MONEY	50,639,447	3.43
TREASURY BILL	39,927,111	2.70
CONCORD MIN CPTL CO	30,000,000	2.03
UNITED PARCEL SERVIC	29,975,950	2.03
GOTHAM FDG CORP	29,907,750	2.02

OFFICE OF THE ARIZONA STATE TREASURER

October 31, 2017

POOL 5 LGIP

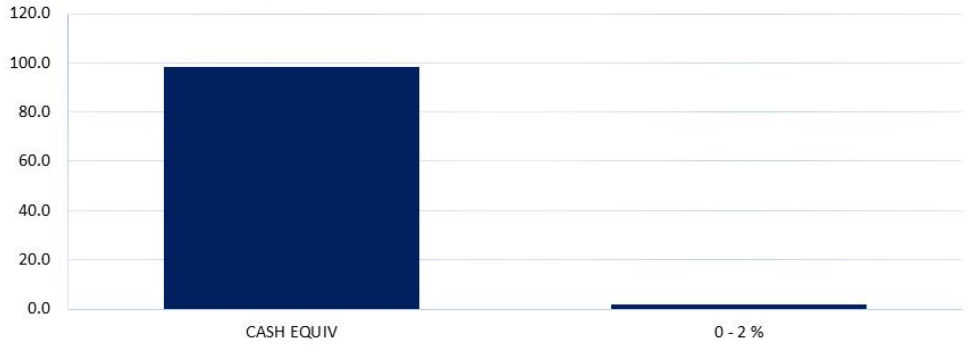
Duration Distribution



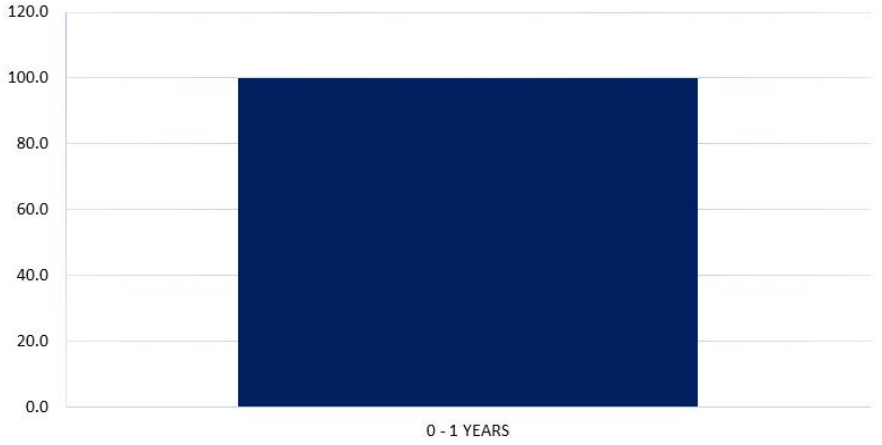
Portfolio Level Characteristics

	POOL 5 LGIP
Weighted Average Life	0.07
Coupon	0.06
Effective Duration	0.07
Quality Rating (Moody's)	AA-3

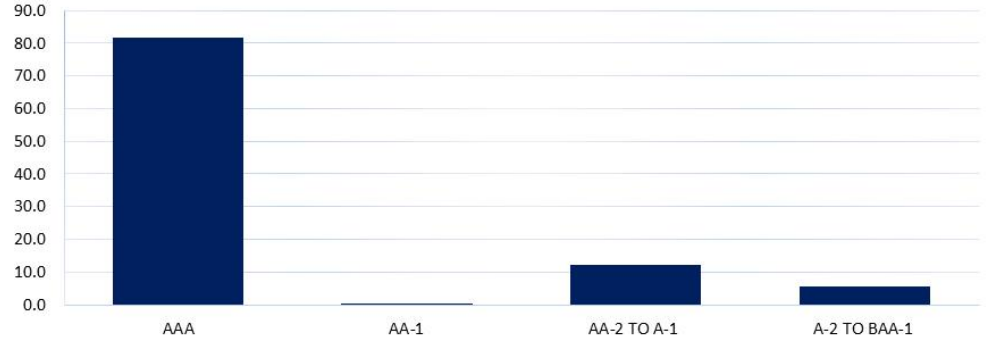
Coupon Distribution



Expected Maturity Distribution



Rating Distribution

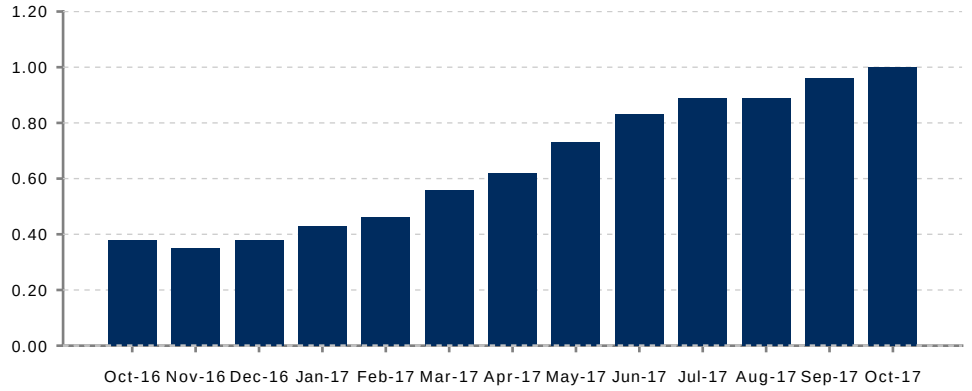


OFFICE OF THE ARIZONA STATE TREASURER

October 31, 2017

POOL 7 LGIP FF&C

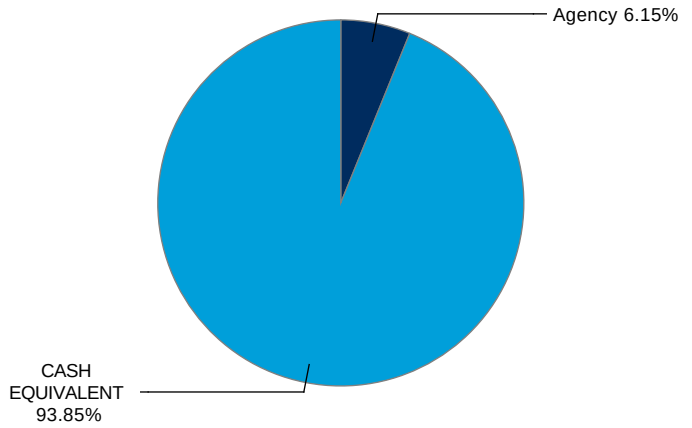
Net Yield



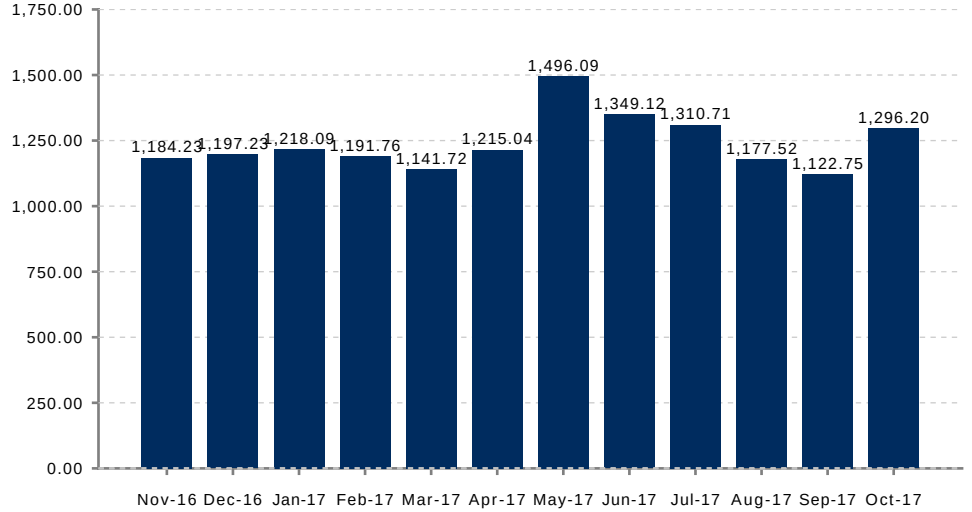
	Current Mth	Prior Mth	1 Year Ago
POOL 7 LGIP FF&C	1.00	0.96	0.38

Asset Allocation

	Ending Market Value
POOL 7 LGIP FF&C	1,296,198,196



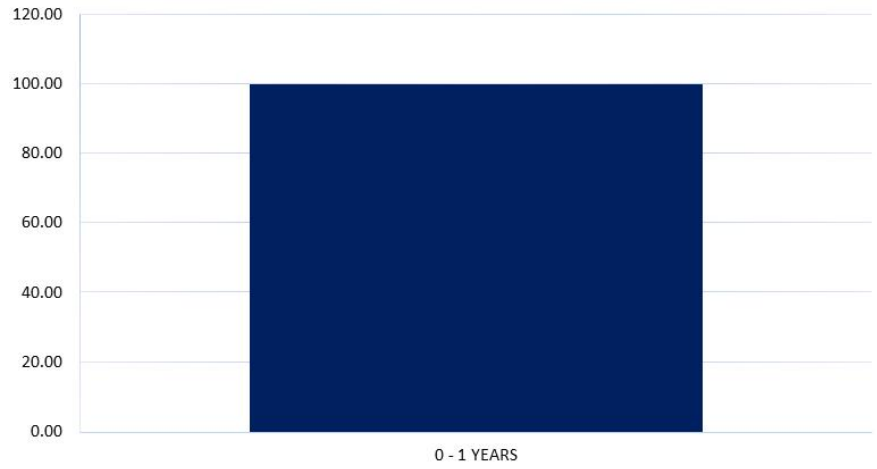
Net Asset Values over Time ($MM)



Top 10 Holdings

Security Name	Ending Market Value	% of Portfolio
POOL 7 LGIP FF&C		
SOUTH STREET REPO	430,050,740	33.18
TREASURY BILL	119,781,397	9.24
TREASURY BILL	119,721,150	9.24
TREASURY BILL	99,839,662	7.70
TREASURY BILL	79,767,192	6.15
TREASURY BILL	69,998,091	5.40
TREASURY BILL	69,984,265	5.40
TREASURY BILL	44,961,736	3.47
TREASURY BILL	39,982,833	3.08
TREASURY BILL	39,973,678	3.08

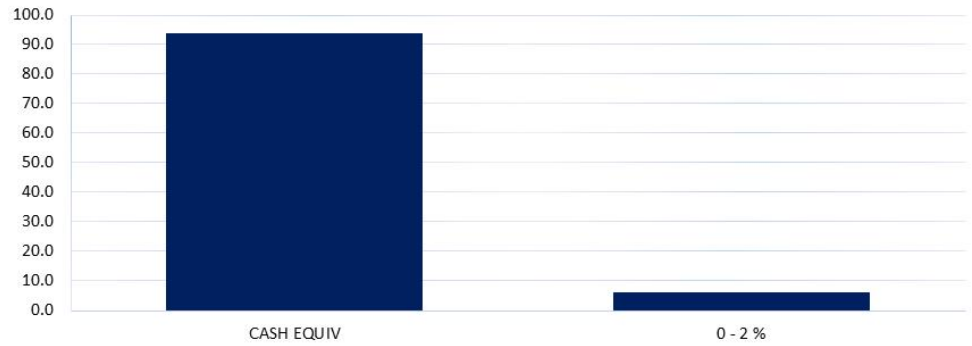
Duration Distribution



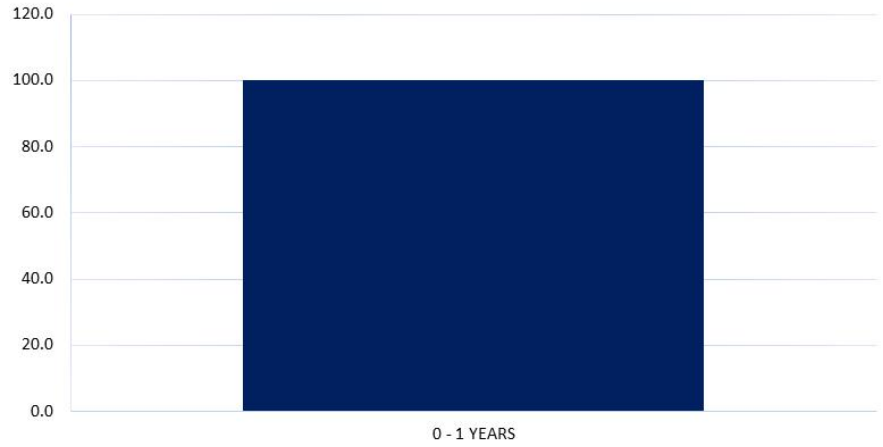
Portfolio Level Characteristics

	POOL 7 LGIP FF&C
Weighted Average Life	0.10
Coupon	0.01
Effective Duration	0.10
Quality Rating (Moody's)	AAA

Coupon Distribution



Expected Maturity Distribution



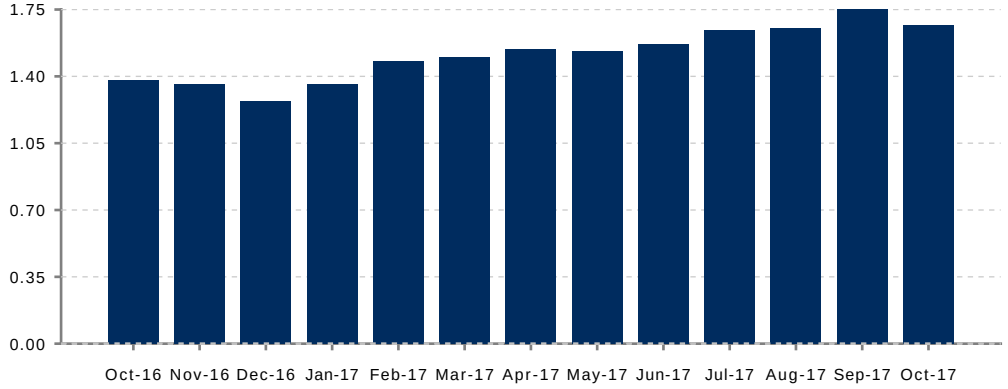
Rating Distribution

OFFICE OF THE ARIZONA STATE TREASURER

October 31, 2017

POOL 500 LGIP MED

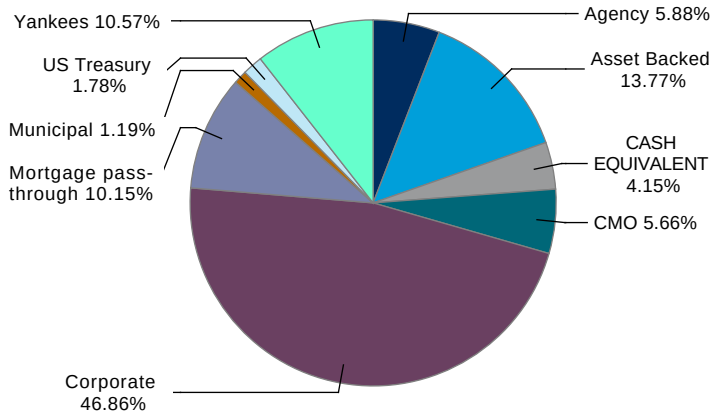
Net Yield



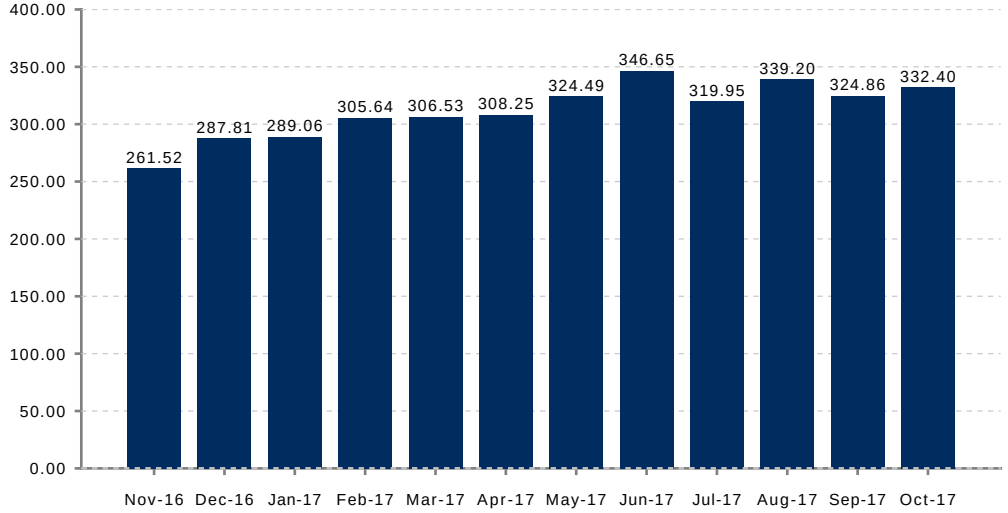
	Current Mth	Prior Mth	1 Year Ago
POOL 500 LGIP MED	1.67	1.75	1.38

Asset Allocation

	Ending Market Value
POOL 500 LGIP MED	332,403,651



Net Asset Values over Time ($MM)



Top 10 Holdings

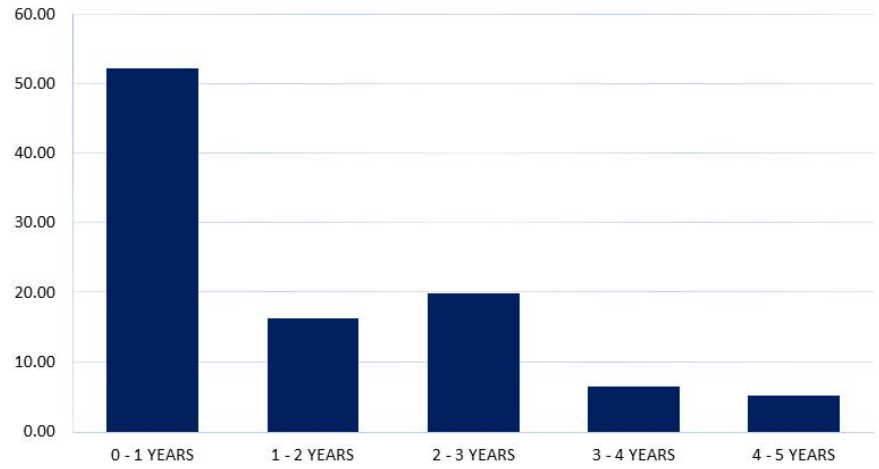
Security Name	Ending Market Value	% of Portfolio
POOL 500 LGIP MED		
GUGGENHEIM SECURITIES REPO	14,000,116	4.21
MICROSOFT CORP	8,035,223	2.42
GOLDMAN SACHS GROUP INC	7,912,174	2.38
APPLE INC	7,077,020	2.13
FNMA POOL AB5991	6,309,044	1.90
HERSHEY COMPANY	6,022,543	1.81
MERCK + CO INC	5,555,707	1.67
FRESB MULTIFAMILY MORTGAGE PAS	5,110,875	1.54
APPLE INC	5,043,704	1.52
BANK OF MONTREAL	5,032,439	1.51

OFFICE OF THE ARIZONA STATE TREASURER

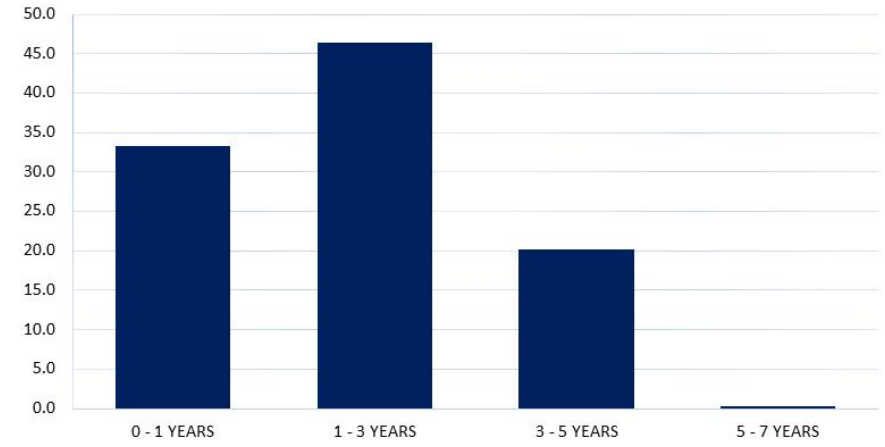
October 31, 2017

POOL 500 LGIP MED

Duration Distribution



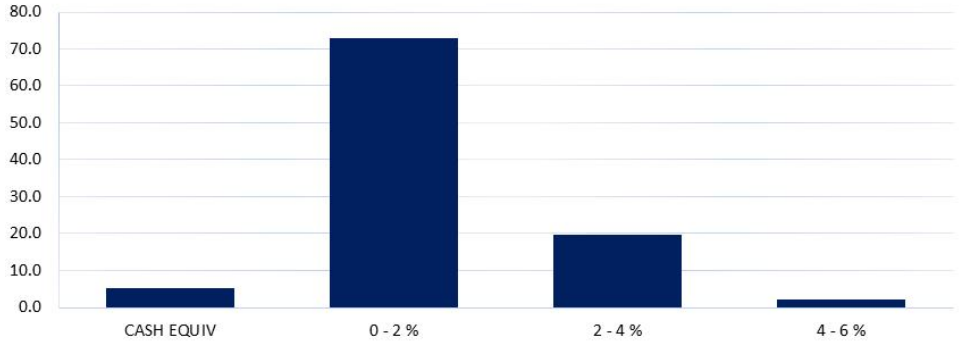
Expected Maturity Distribution



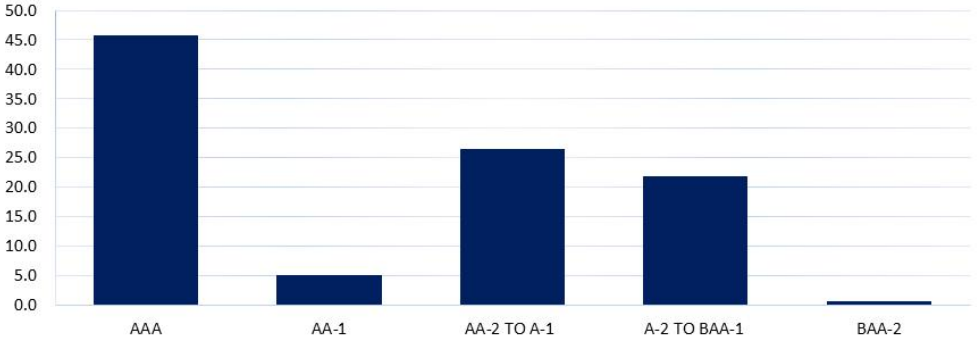
Portfolio Level Characteristics

	POOL 500 LGIP MED
Weighted Average Life	1.92
Coupon	1.63
Effective Duration	1.28
Quality Rating (Moody's)	AA-3

Coupon Distribution



Rating Distribution

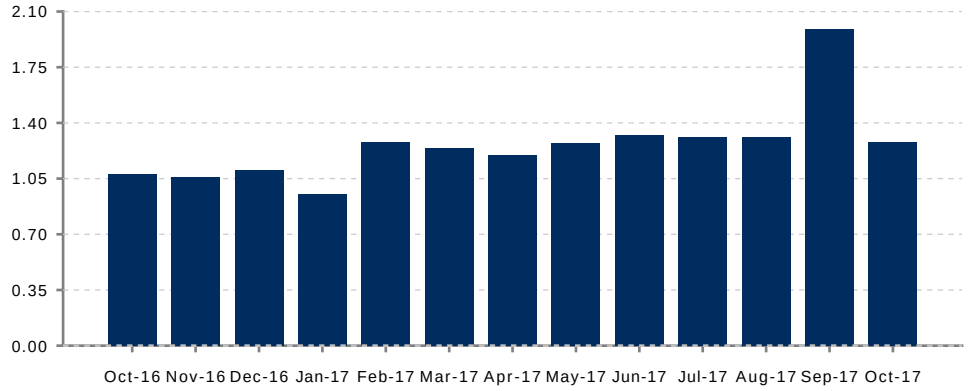


OFFICE OF THE ARIZONA STATE TREASURER

October 31, 2017

POOL 700 LGIP MD FF&C

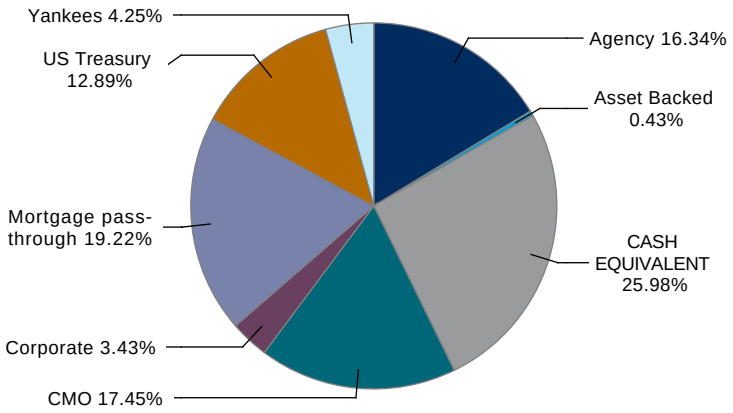
Net Yield



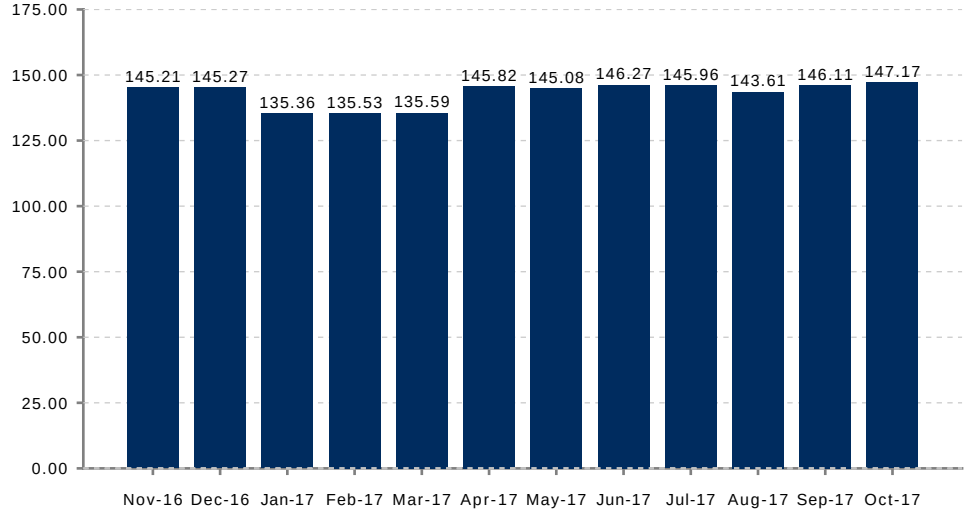
	Current Mth	Prior Mth	1 Year Ago
POOL 700 LGIP MD FF&C	1.28	1.99	1.08

Asset Allocation

	Ending Market Value
POOL 700 LGIP MD FF&C	147,168,890



Net Asset Values over Time ($MM)



Top 10 Holdings

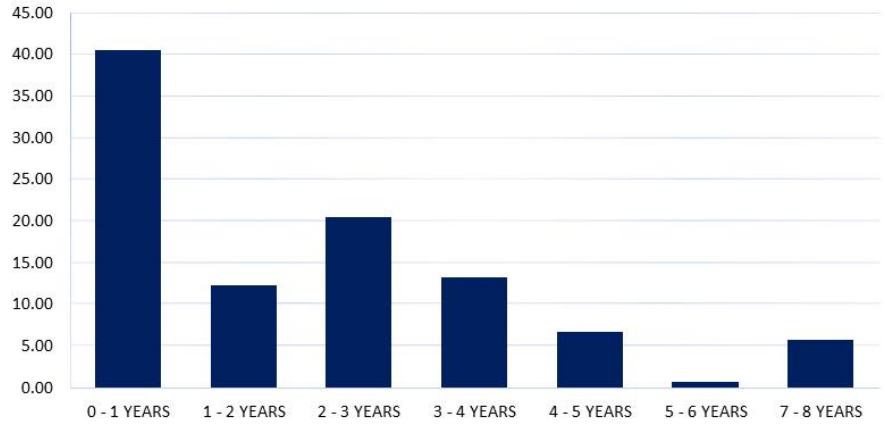
Security Name	Ending Market Value	% of Portfolio
POOL 700 LGIP MD FF&C		
GUGGENHEIM SECURITIES REPO	26,000,773	17.67
PRIVATE EXP. FUNDING	9,970,056	6.77
US TREASURY N/B	5,012,040	3.41
US TREASURY N/B	5,000,719	3.40
GOVERNMENT NATIONAL MORTGAGE A	4,764,260	3.24
OVERSEAS PRIVATE INV COR	4,550,850	3.09
GNMA II POOL MA0213	4,123,578	2.80
OVERSEAS PRIVATE INV COR	4,005,876	2.72
GOVERNMENT NATIONAL MORTGAGE A	3,638,198	2.47
PRIVATE EXPORT FUNDING	3,487,057	2.37

OFFICE OF THE ARIZONA STATE TREASURER

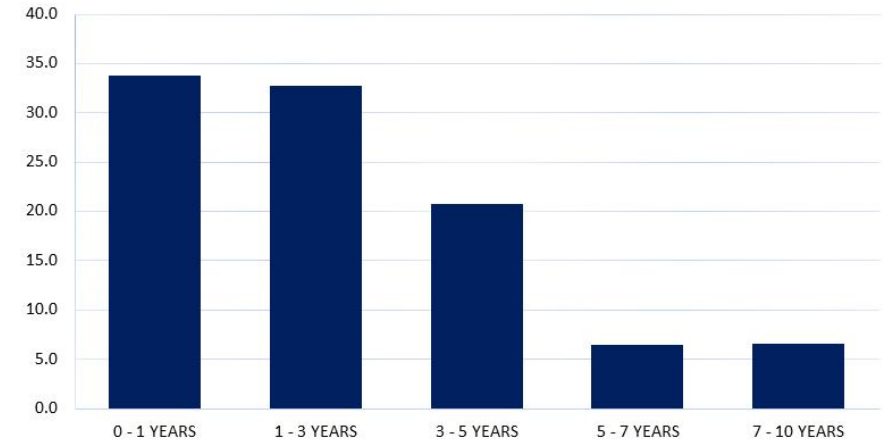
October 31, 2017

POOL 700 LGIP MD FF&C

Duration Distribution



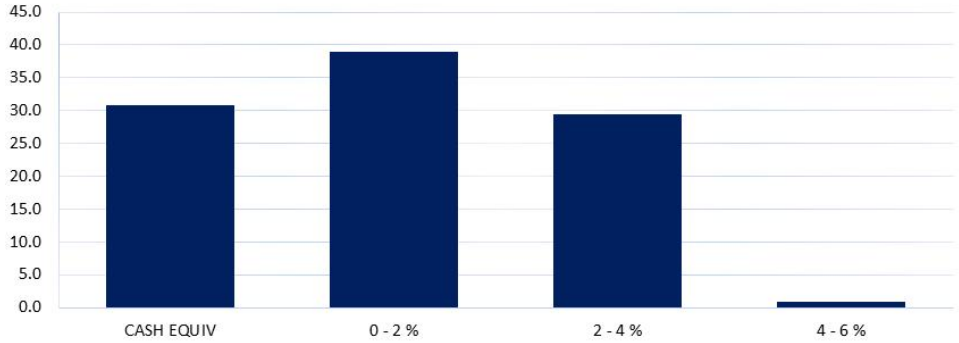
Expected Maturity Distribution



Portfolio Level Characteristics

	POOL 700 LGIP MD FF&C
Weighted Average Life	2.32
Coupon	1.59
Effective Duration	1.94
Quality Rating (Moody's)	AAA

Coupon Distribution



Rating Distribution

EARNINGS DISTRIBUTED
ENDOWMENT FUNDS
OCTOBER 2017

Recipient		Distributed in Current Month OCTOBER 2017	Fiscal YTD 17/18	Fiscal YTD 16/17
101	A & M Colleges	$66,488	$265,950	$250,780
102	State Hospital	42,992	171,968	158,768
103	Leg., Exec., & Jud.	54,897	219,588	205,652
104	Military Institute	3,642	14,568	13,824
105	Miners Hospital	143,641	574,563	507,860
107	Normal School ASU/NAU	26,115	104,459	95,420
108	Penitentiaries	95,352	381,406	342,168
109	Permanent Common School	24,660,436	98,641,746	89,852,840
110	School for Deaf & Blind	35,595	142,380	132,569
111	School of Mines	75,273	301,094	283,656
112	State Charitable-Pioneers Home	370,145	1,480,579	1,385,892
112	State Charitable-Corrections	185,072	740,289	692,946
112	State Charitable-Youth Treatment	185,072	740,289	692,946
113	University Fund	132,996	531,985	491,842
114	U of A Land - 1881	433,184	1,732,734	1,537,901
	Total	**$26,510,900**	**$106,043,599**	**$96,645,065**

Land Sales Monthly Proceeds
Endowment Funds

	Year						
Month	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**
January	21,196,075	85,209,777	29,493,046	7,126,212	5,108,687	2,960,815	
February	92,150,173	24,412,865	33,969,801	2,535,244	1,083,178	1,103,303	
March	1,015,640	13,469,847	1,323,549	1,096,232	1,106,860	3,045,043	
April	1,796,774	4,599,024	2,252,527	1,968,281	28,981,969	78,134,289	
May	926,085	12,685,871	1,100,261	19,123,417	20,147,116	27,642,672	
June	22,369,423	6,493,351	4,564,719	33,179,898	31,844,678	2,451,110	
July	823,328	5,694,705	4,196,738	6,092,396	2,469,997	13,838,188	
August	33,621,311	2,304,138	24,838,430	1,038,971	13,094,287	5,746,802	
September	17,307,221	10,399,639	1,960,673	1,967,125	(12,580,728)	19,937,751	
October	1,403,700	1,240,497	3,150,170	2,366,519	10,614,885	480,710	
November	5,131,627	8,995,327	34,193,583	1,358,711	28,490,238		
December	28,846,813	3,574,631	1,136,538	4,264,354	6,127,407		
Calendar Year	226,588,170	179,079,672	142,180,034	82,117,360	136,488,573	155,340,683	-
Fiscal Year (July 1st to June 30th)	163,898,058	234,004,734	104,912,840	134,505,415	105,360,563	163,553,318	40,003,451

NET REALIZED CAPITAL GAINS / LOSSES - ENDOWMENT FUNDS

Endowment Fund	October 2017 NET GAIN(LOSS)	October 2016 NET GAIN(LOSS)
Fixed Income Pool	($401,311)	**($468,139)**
		$0
500 Large-Cap Fund	5,288,890	**$775,438**
		$0
400 Mid-Cap Fund	3,026,804	**($1,419,137)**
		$0
600 Small-Cap Fund	4,629,222	**($334,469)**
Totals	$12,543,604	**($1,446,306)**

Endowment Fund	2017/2018 FISCAL YEAR TO DATE GAINS(LOSSES)	2016/2017 FISCAL YEAR TO DATE GAINS(LOSSES)
Fixed Income Pool	($1,545,131)	**($1,723,555)**
500 Large-Cap Fund	11,082,114	**7,884,309**
400 Mid-Cap Fund	22,794,796	**10,897,559**
600 Small-Cap Fund	10,984,651	**9,867,252**
Totals	$43,316,430	**$26,925,565**

ENDOWMENT FUNDS FIXED-INCOME POOLS
PURCHASES & SALES
OCTOBER 2017

I. Endowment Funds Purchases

POOL	SECURITY DESCRIPTION	RATE	MATURITY	*WAL YEARS	PAR VALUE	PURCHASE COST	YIELD	MOODY'S / S&P RATING
205	BMW VEHICLE	1.35	10/22/2018	NA	$8,250,000	$8,250,000	1.35%	P-1/NR
205	BMW VEHICLE	2.19	03/22/2021	NA	2,750,000	2,749,363	2.20%	Aaa/NR
205	FNMA MTG	3.00	10/01/2031	4.52	5,367,731	5,517,859	2.30%	Aaa/AA+
205	FREDDIE MAC	3.00	09/15/2037	3.68	4,129,985	4,224,523	2.32%	Aaa/AA+
205	GNMA MTG	4.00	09/20/2047	4.98	6,795,189	7,213,518	2.60%	Aaa/AA+
205	SHEFFIELD RECEIVABLES	0.00	12/18/2017	NA	15,000,000	14,959,546	1.33%	P-1/NR
205	US TREASURY	5.50	08/15/2028	NA	5,000,000	6,539,258	2.28%	Aaa/AA+
205	WAL MART	0.00	10/09/2019	NA	5,000,000	5,000,000	1.33%	Aa2/AA
123	HALKIN FINANCE	1.25	11/20/2017	NA	15,000,000	14,975,000	1.25%	P-1/A-1
123	MANHATTEN ASSET	1.23	11/20/2017	NA	10,000,000	9,983,600	1.23%	P-1/A-1
123	PRAXAIR	1.14	12/05/2017	NA	17,000,000	16,966,623	1.14%	P-1/A-1
	TOTAL ENDOWMENT FUNDS PURCHASES				**$94,292,905**	**$96,379,291**		

II. Endowment Funds Sales

POOL	SECURITY DESCRIPTION	RATE	MATURITY	PAR VALUE	AMORTIZED COST/PROCEEDS	SALES GAINS/(LOSSES)	MOODY'S / S&P RATING
205	US TREASURY	0.75	10/31/2017	$5,000,000	$4,999,023	$791	Aaa/AA+
	TOTAL ENDOWMENT FUNDS SALES			**$5,000,000**	**$4,999,023**	**$791**	

* WAL is the weighted average life of the security based on the Bloomberg calculation at the time the trade is executed. The calculation is used only with mortgage-backed pass-through/CMO securities.

EQUITY FUNDS
PURCHASES & SALES
OCTOBER 2017

I. Equity Fund Purchases

	SHARES	PURCHASE COST	COMMISSIONS
400 Mid-Cap Fund	451,949	$12,614,717	$2,564
500 Large-Cap Fund	199,412	12,604,502	1,496
600 Small-Cap Fund	505,087	11,995,877	3,597
TOTAL EQUITY PURCHASES	**1,156,448**	**$37,215,096**	**$7,657**

II. Equity Funds Sales

	SHARES	SALES AMOUNT	COMMISSIONS
400 Mid-Cap Fund	208,208	$9,928,971	$1,370
500 Large-Cap Fund	226,591	14,530,685	1,700
600 Small-Cap Fund	584,913	13,735,230	3,561
TOTAL EQUITY SALES	**1,019,712**	**$38,194,886**	**$6,631**

ENDOWMENT FUNDS
INVESTMENTS OUTSTANDING
OCTOBER 31, 2017
(In Thousands)

FUND	NAME OF FUND	SHARES OUTSTANDING	BOOK VALUE	MARKET VALUE	UNREALIZED GAINS (LOSSES)	**Mkt Value/ Book Value**
101	A & M Colleges					
	Shares in Equity Pools	409	$2,876	$8,193	$5,317	
	Shares in Fixed Income Pools	4,096	2,932	5,129	2,197	
	Total	4,505	5,808	13,322	7,514	**2.294**
102	State Hospital					
	Shares in Equity Pools	312	2,663	6,249	3,587	
	Shares in Fixed Income Pools	3,210	2,648	4,019	1,372	
	Total	3,521	5,310	10,268	4,958	**1.934**
103	Leg., Exec, & Jud					
	Shares in Equity Pools	332	2,504	6,646	4,142	
	Shares in Fixed Income Pools	3,545	2,540	4,439	1,899	
	Total	3,877	5,044	11,085	6,041	**2.198**
104	Military Institute					
	Shares in Equity Pools	23	176	451	275	
	Shares in Fixed Income Pools	246	173	308	135	
	Total	268	349	759	410	**2.172**
105	Miners Hospital					
	Shares in Equity Pools	979	8,693	19,626	10,932	
	Shares in Fixed Income Pools	9,861	8,594	12,349	3,754	
	Total	10,840	17,288	31,974	14,687	**1.850**
107	Normal School ASU/NAU					
	Shares in Equity Pools	187	1,605	3,739	2,134	
	Shares in Fixed Income Pools	1,927	1,541	2,413	872	
	Total	2,114	3,146	6,152	3,007	**1.956**
108	Penitentiaries					
	Shares in Equity Pools	654	5,541	13,102	7,561	
	Shares in Fixed Income Pools	6,693	5,512	8,382	2,869	
	Total	7,347	11,053	21,484	10,431	**1.944**

ENDOWMENT FUNDS
INVESTMENTS OUTSTANDING
OCTOBER 31, 2017
(In Thousands)

	NAME OF FUND	SHARES OUTSTANDING	BOOK VALUE	MARKET VALUE	UNREALIZED GAINS (LOSSES)	**Mkt Value/ Book Value**
109	Permanent Common School					
	Shares in Equity Pools	164,775	1,340,211	3,302,245	1,962,035	
	Shares in Fixed Income Pools	1,661,123	1,359,213	2,080,142	720,929	
	Total	1,825,898	2,699,424	5,382,388	2,682,964	**1.994**
110	School for Deaf & Blind					
	Shares in Equity Pools	237	1,971	4,757	2,785	
	Shares in Fixed Income Pools	2,659	2,091	3,330	1,240	
	Total	2,897	4,062	8,087	4,025	**1.991**
111	School of Mines					
	Shares in Equity Pools	463	3,473	9,272	5,800	
	Shares in Fixed Income Pools	4,761	3,535	5,963	2,427	
	Total	5,224	7,008	15,235	8,227	**2.174**
112	State Charitable					
	Shares in Equity Pools	4,660	35,103	93,383	58,281	
	Shares in Fixed Income Pools	45,350	35,974	56,790	20,815	
	Total	50,010	71,077	150,173	79,096	**2.113**
113	University Fund					
	Shares in Equity Pools	843	6,682	16,896	10,214	
	Shares in Fixed Income Pools	8,689	6,624	10,880	4,256	
	Total	9,532	13,306	27,777	14,470	**2.087**
114	U Of A Land - 1881					
	Shares in Equity Pools	3,174	30,907	63,608	32,701	
	Shares in Fixed Income Pools	32,655	28,197	40,892	12,695	
	Total	35,828	59,104	104,499	45,395	**1.768**
	TOTALS - ALL FUNDS					
	Shares in Equity Pools	177,046	1,442,404	3,548,168	2,105,763	
	Shares in Fixed Income Pools	1,784,814	1,459,575	2,235,035	775,460	
	Grand Total	$1,961,861	$2,901,979	$5,783,203	$2,881,224	
	PRIOR YEAR: OCTOBER 2016 BALANCES	**$2,003,252**	**$2,926,148**	**$5,139,923**	**$2,213,775**	

ENDOWMENT FUNDS
INVESTMENTS OUTSTANDING
OCTOBER 31, 2017

ASSET ALLOCATION PERCENTAGE

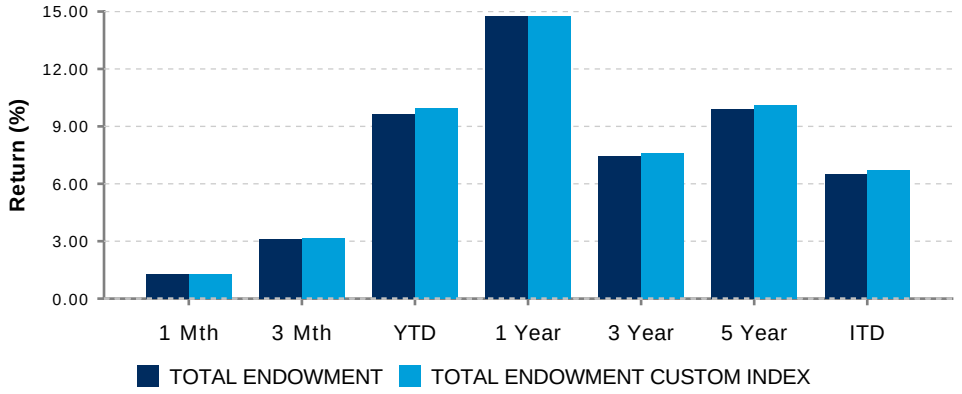
	SHARES OUTSTANDING	**BOOK VALUE**	MARKET VALUE	OCTOBER 2016 MARKET VALUE
Shares in Equity Pools	9.02%	**49.70%**	61.35%	60.54%
Shares in Fixed Income Pools	90.98%	**50.30%**	38.65%	39.46%
Total	100.00%	**100.00%**	100.00%	100.00%

OFFICE OF THE ARIZONA STATE TREASURER

October 31, 2017

Total Endowment Summary

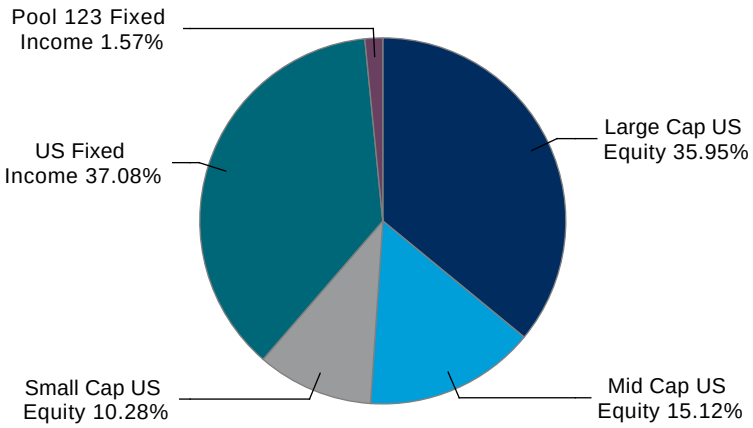
Performance



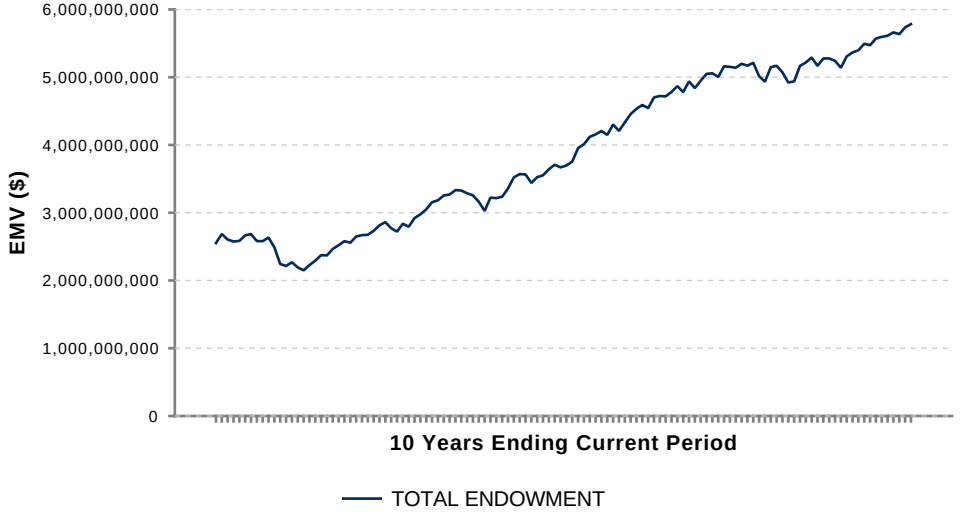
	1 Mth	3 Mth	YTD	1 Year	3 Year	5 Year	ITD	Incept Date
TOTAL ENDOWMENT	1.30	3.10	9.64	14.74	7.45	9.90	6.50	07/99
TOTAL ENDOWMENT CUSTOM INDEX	1.29	3.14	9.93	14.74	7.58	10.11	6.69	07/99
Excess	0.01	-0.04	-0.29	0.00	-0.14	-0.22	-0.19	

Asset Allocation

	Ending Market Value
TOTAL ENDOWMENT	5,783,202,967

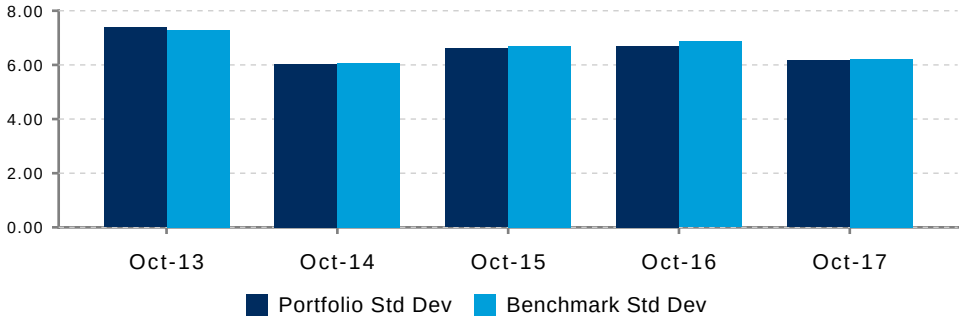


Ending Market Value



3 Year Risk Statistics

	Return	Portfolio Std Dev	Benchmark Std Dev	Sharpe Ratio	Beta	Tracking Error	Information Ratio
TOTAL ENDOWMENT	7.45	6.16	6.22	1.15	0.99	0.35	-0.39

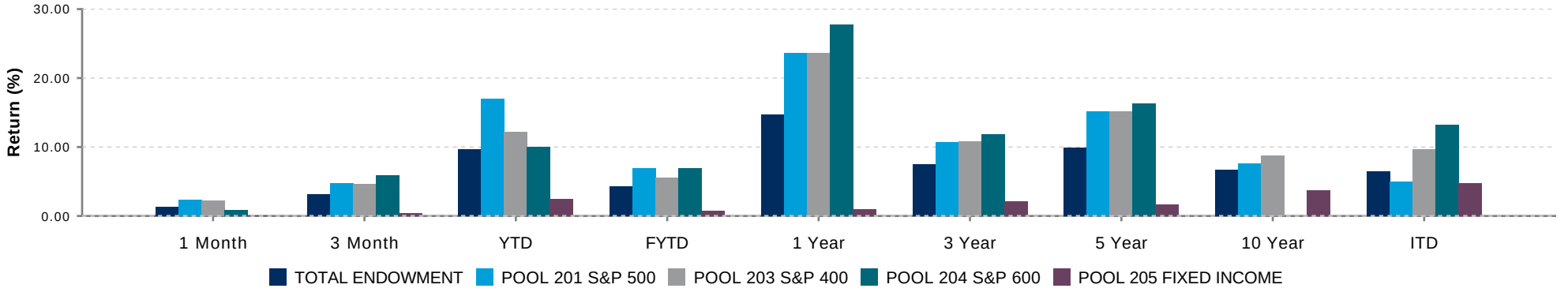


OFFICE OF THE ARIZONA STATE TREASURER

October 31, 2017

Total Returns Net Mgr

Return Comparison



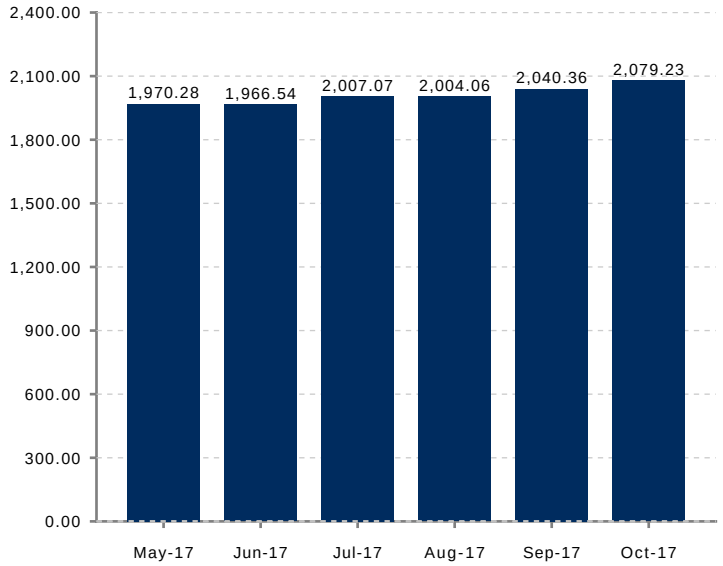
	Market Value	Actual Weight	1 Mth	3 Mth	YTD	FYTD	1 Year	3 Year	5 Year	10 Year	ITD	Inc Date
TOTAL ENDOWMENT	5,783,202,967	100.00	1.30	3.10	9.64	4.25	14.74	7.45	9.90	6.68	6.50	Jul-01-99
TOTAL ENDOWMENT CUSTOM INDEX			1.29	3.14	9.93	4.30	14.74	7.58	10.11	6.97	6.69	Jul-01-99
Excess			0.01	-0.04	-0.29	-0.05	0.00	-0.14	-0.22	-0.29	-0.19	
POOL 201 S&P 500	2,079,232,127	35.95	2.35	4.79	16.95	6.95	23.62	10.72	15.13	7.56	4.98	Jul-01-99
S&P 500 INDEX (DAILY)			2.33	4.76	16.91	6.92	23.63	10.77	15.18	7.51	5.49	Jul-01-99
Excess			0.01	0.02	0.04	0.03	-0.01	-0.06	-0.05	0.05	-0.51	
POOL 203 S&P 400	874,543,699	15.12	2.27	4.61	12.15	5.56	23.59	10.85	15.18	8.78	9.70	Aug-01-01
S&P 400 MIDCAP INDEX (DAILY)			2.26	4.64	11.88	5.56	23.48	10.71	15.13	8.96	9.70	Aug-01-01
Excess			0.01	-0.02	0.28	0.01	0.11	0.14	0.06	-0.18	0.00	
POOL 204 S&P 600	594,391,793	10.28	0.90	5.85	10.00	6.90	27.79	11.90	16.34		13.25	Mar-01-11
S&P SM 600 TR			0.95	5.94	9.96	6.97	27.92	11.85	16.29		13.23	Mar-01-11
Excess			-0.05	-0.09	0.04	-0.07	-0.14	0.05	0.04		0.02	
POOL 205 FIXED INCOME	2,144,287,911	37.08	0.07	0.35	2.46	0.75	0.99	2.09	1.62	3.67	4.77	Jul-01-99
CITIGROUP BIG (DAILY)			0.05	0.43	3.24	0.88	0.87	2.40	2.03	4.26	5.09	Jul-01-99
Excess			0.03	-0.08	-0.78	-0.13	0.13	-0.31	-0.41	-0.59	-0.32	
POOL 123 FIXED INCOME	90,747,437	1.57	0.11	0.32	0.89	0.42	1.05				0.91	Jun-01-16
ASTO-POOL 5 BENCHMARK			0.09	0.27	0.74	0.36	0.82				0.71	Jun-01-16
Excess			0.01	0.05	0.15	0.06	0.23				0.20	

OFFICE OF THE ARIZONA STATE TREASURER

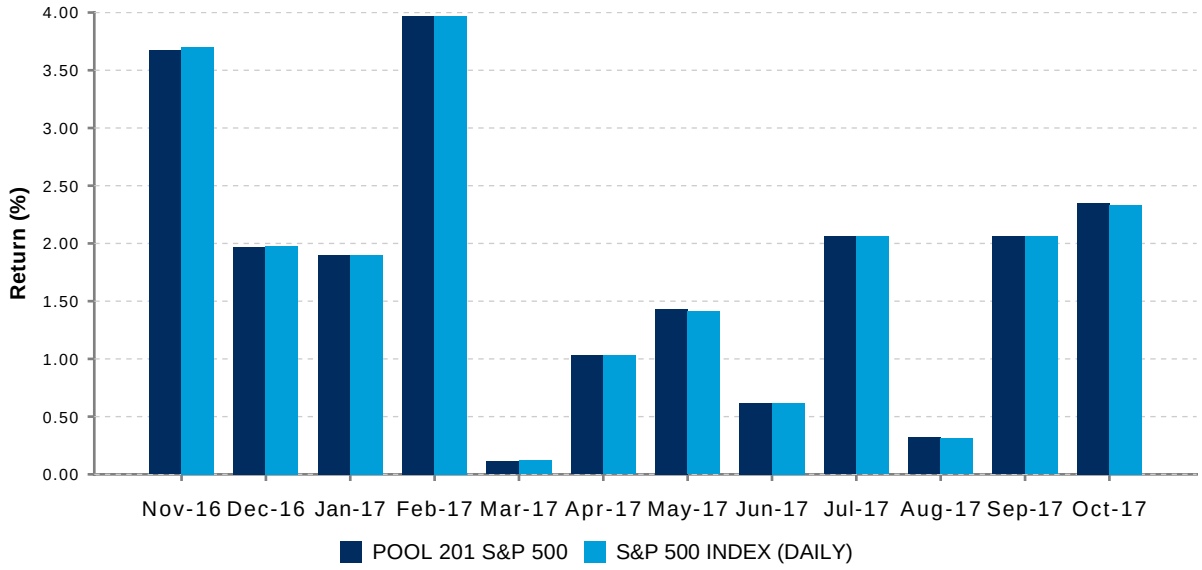
October 31, 2017

POOL 201 S&P 500

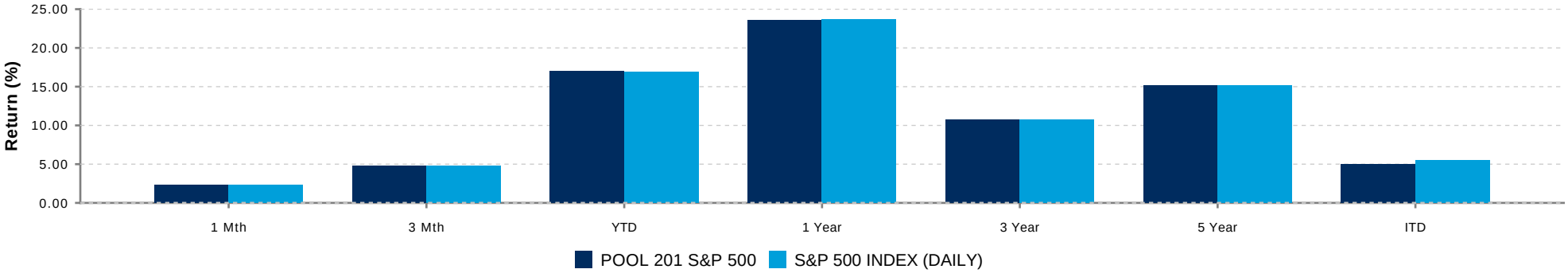
Net Asset Values over Time ($MM)



Monthly Returns



Rates of Return

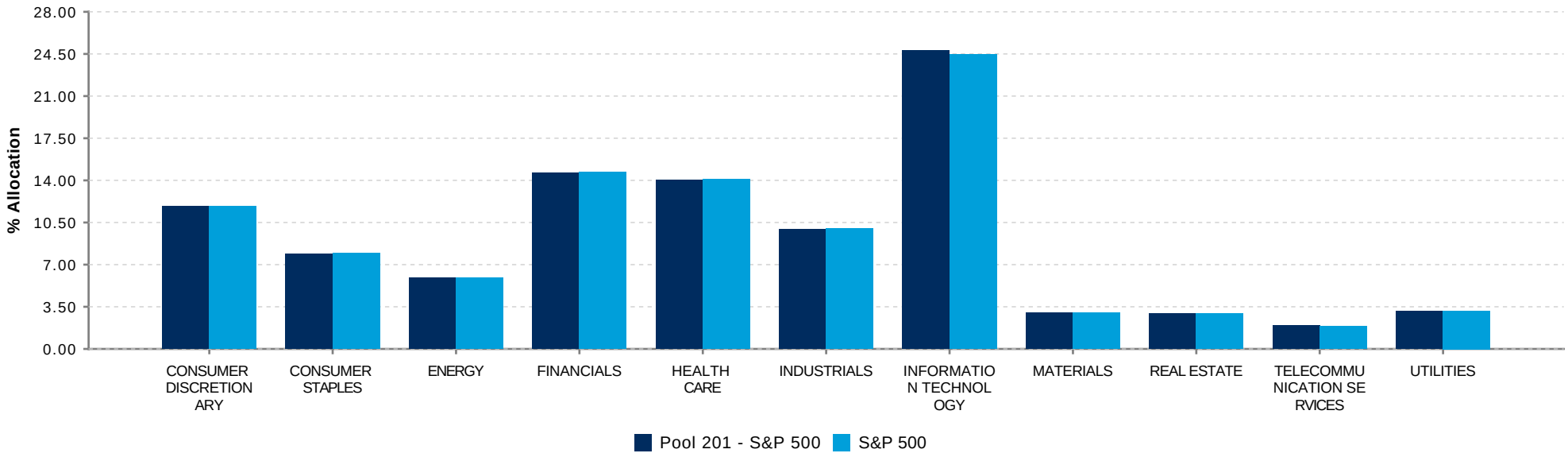


	1 Mth	3 Mth	YTD	1 Year	3 Year	5 Year	ITD	Oct 31 2015	Oct 31 2016	Oct 31 2017
POOL 201 S&P 500	2.35	4.79	16.95	23.62	10.72	15.13	4.98	5.17	4.39	23.62
S&P 500 INDEX (DAILY)	2.33	4.76	16.91	23.63	10.77	15.18	5.49	5.20	4.51	23.63
Excess	0.01	0.02	0.04	-0.01	-0.06	-0.05	-0.51	-0.03	-0.12	-0.01

OFFICE OF THE ARIZONA STATE TREASURER

October 31, 2017

POOL 201 S&P 500
Sector Allocation vs S&P 500



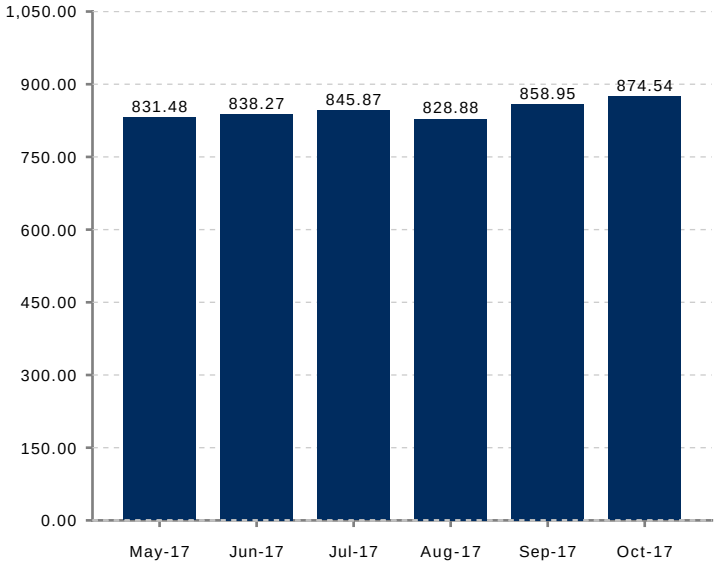
	Fund Weight	Benchmark Weight	Relative Weight
POOL 201 S&P 500	100.00	100.00	0.00
CONSUMER DISCRETIONARY	11.83	11.85	-0.02
CONSUMER STAPLES	8.21	8.23	-0.03
ENERGY	6.08	6.09	-0.01
FINANCIALS	14.60	14.61	-0.00
HEALTH CARE	14.44	14.51	-0.07
INDUSTRIALS	10.17	10.23	-0.06
INFORMATION TECHNOLOGY	23.54	23.23	0.30
MATERIALS	2.94	2.98	-0.04
REAL ESTATE	2.94	2.99	-0.04
TELECOMMUNICATION SERVICES	2.16	2.17	-0.01
UTILITIES	3.09	3.12	-0.02

OFFICE OF THE ARIZONA STATE TREASURER

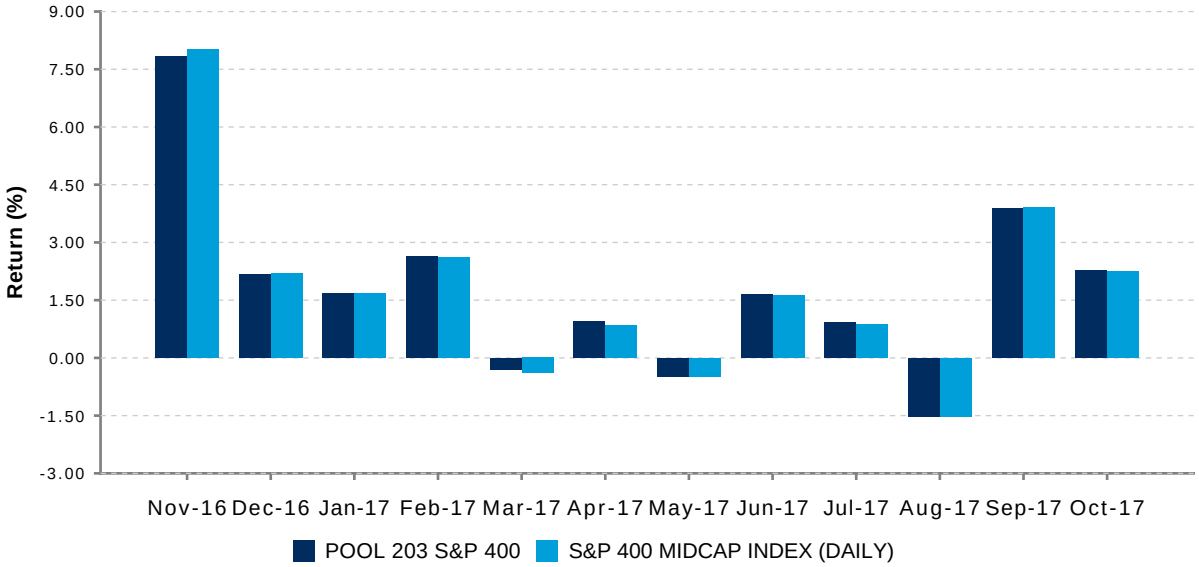
October 31, 2017

POOL 203 S&P 400

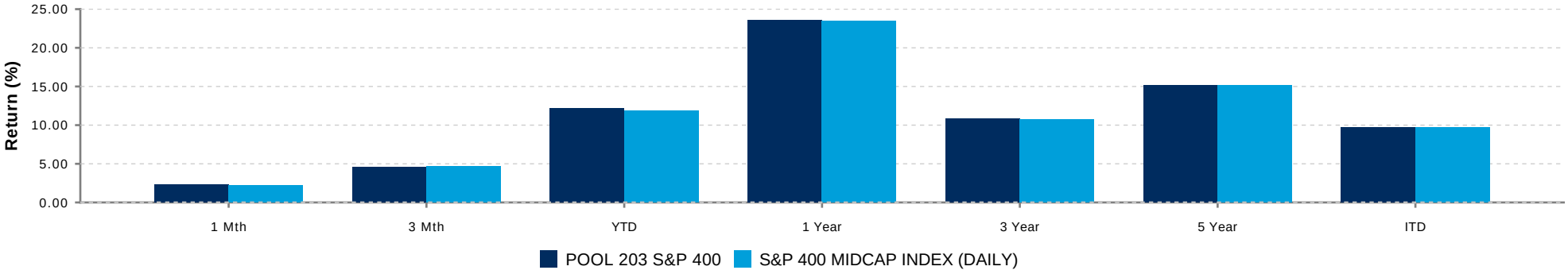
Net Asset Values over Time ($MM)



Monthly Returns



Rates of Return

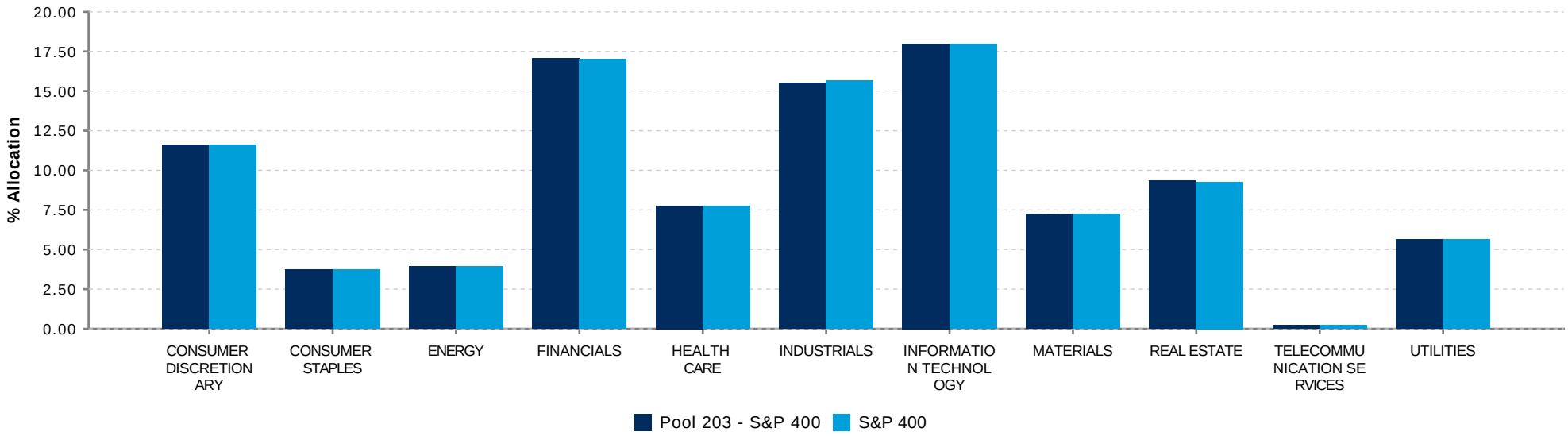


	1 Mth	3 Mth	YTD	1 Year	3 Year	5 Year	ITD	Oct 31 2015	Oct 31 2016	Oct 31 2017
POOL 203 S&P 400	2.27	4.61	12.15	23.59	10.85	15.18	9.70	3.64	6.34	23.59
S&P 400 MIDCAP INDEX (DAILY)	2.26	4.64	11.88	23.48	10.71	15.13	9.70	3.42	6.26	23.48
Excess	0.01	-0.02	0.28	0.11	0.14	0.06	0.00	0.22	0.09	0.11

OFFICE OF THE ARIZONA STATE TREASURER

October 31, 2017

POOL 203 S&P 400
Sector Allocation vs S&P MID CAP 400



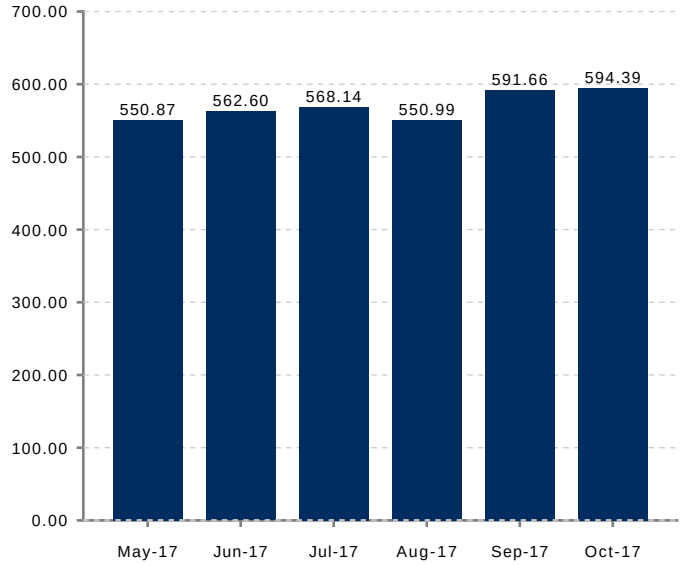
	Weight Fund	Weight Benchmark	Weight Relative
POOL 203 S&P 400	100.00	100.00	0.00
CONSUMER DISCRETIONARY	11.55	11.42	0.12
CONSUMER STAPLES	3.69	3.86	-0.17
ENERGY	4.05	4.19	-0.14
FINANCIALS	16.86	16.80	0.06
HEALTH CARE	8.12	8.16	-0.04
INDUSTRIALS	15.48	15.62	-0.14
INFORMATION TECHNOLOGY	17.59	17.41	0.18
MATERIALS	7.28	7.20	0.08
REAL ESTATE	9.62	9.62	-0.00
TELECOMMUNICATION SERVICES	0.21	0.21	0.00
UTILITIES	5.55	5.51	0.04

OFFICE OF THE ARIZONA STATE TREASURER

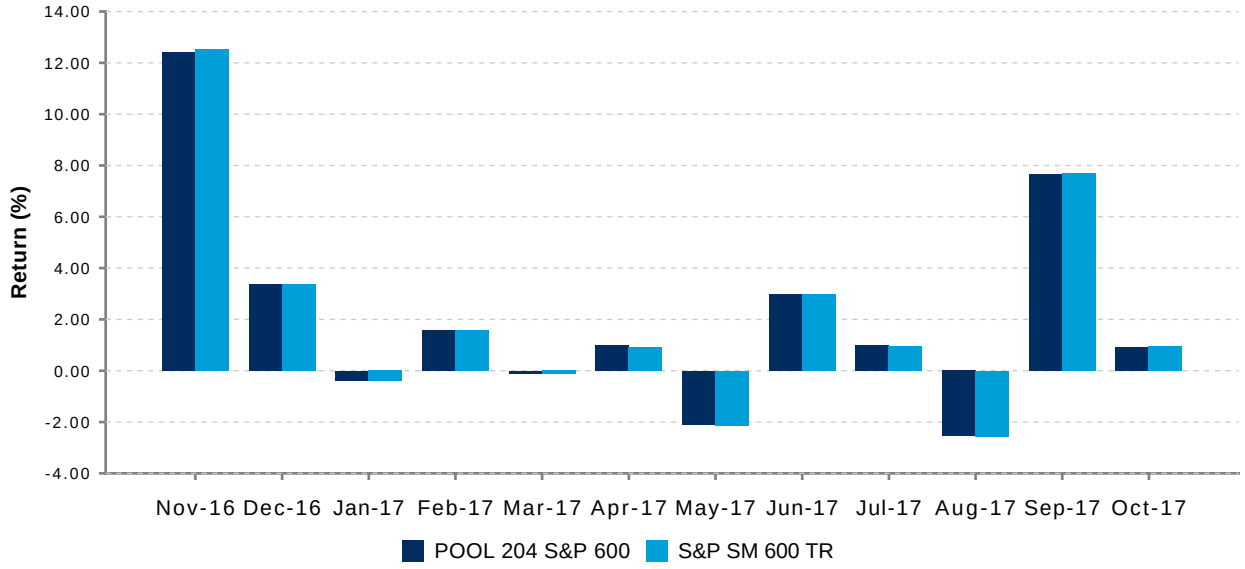
October 31, 2017

POOL 204 S&P 600

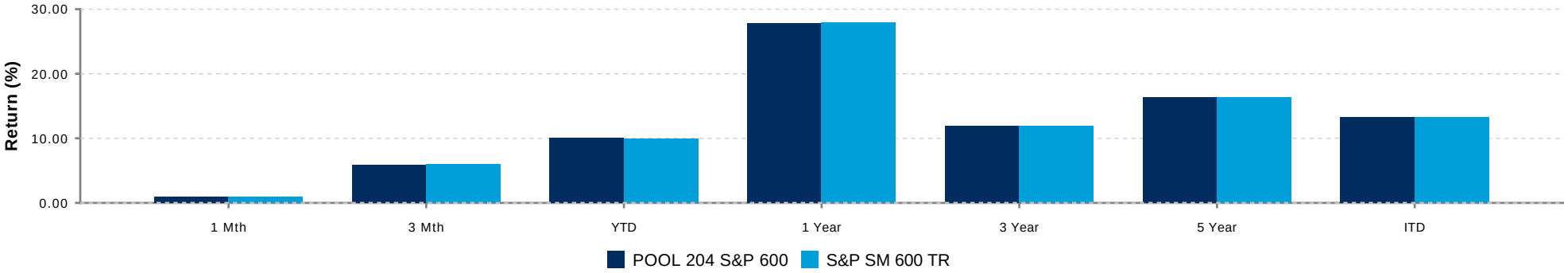
Net Asset Values over Time ($MM)



Monthly Returns



Rates of Return

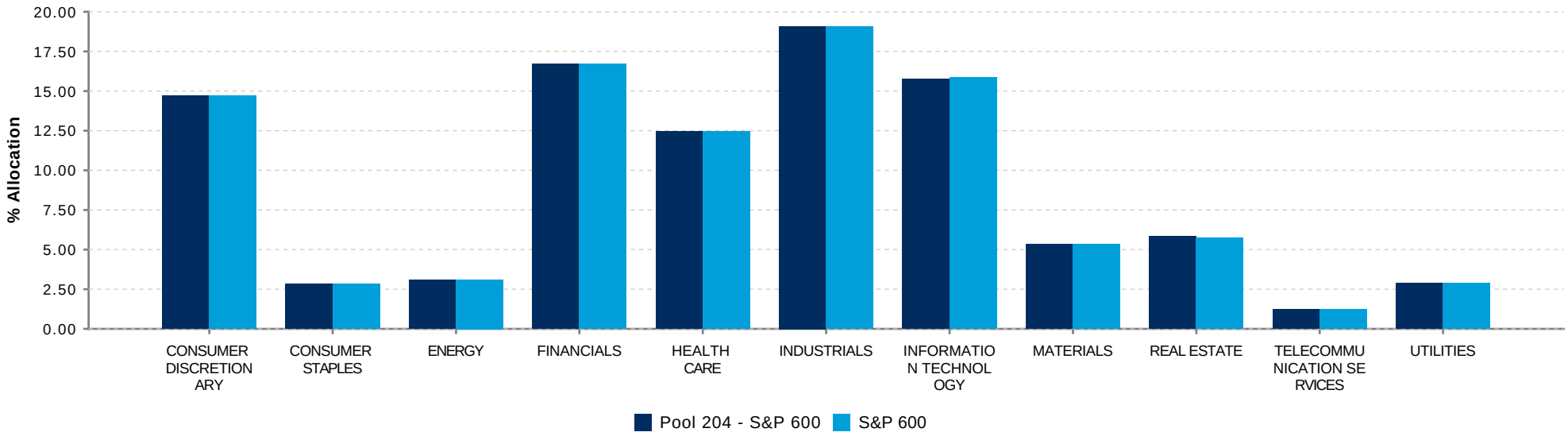


	1 Mth	3 Mth	YTD	1 Year	3 Year	5 Year	ITD	Oct 31 2015	Oct 31 2016	Oct 31 2017
POOL 204 S&P 600	0.90	5.85	10.00	27.79	11.90	16.34	13.25	2.99	6.47	27.79
S&P SM 600 TR	0.95	5.94	9.96	27.92	11.85	16.29	13.23	2.85	6.35	27.92
Excess	-0.05	-0.09	0.04	-0.14	0.05	0.04	0.02	0.14	0.12	-0.14

OFFICE OF THE ARIZONA STATE TREASURER

October 31, 2017

POOL 204 S&P 600
Sector Allocation vs S&P SMALLCAP 600



	Weight Fund	Weight Benchmark	Weight Relative
POOL 204 S&P 600	100.00	100.00	0.00
CONSUMER DISCRETIONARY	15.10	15.07	0.03
CONSUMER STAPLES	3.28	2.84	0.45
ENERGY	3.00	3.10	-0.10
FINANCIALS	16.63	16.82	-0.19
HEALTH CARE	12.74	12.86	-0.13
INDUSTRIALS	18.90	18.79	0.11
INFORMATION TECHNOLOGY	14.89	15.17	-0.28
MATERIALS	5.28	5.26	0.02
REAL ESTATE	6.16	6.09	0.07
TELECOMMUNICATION SERVICES	1.18	1.19	-0.01
UTILITIES	2.84	2.81	0.02

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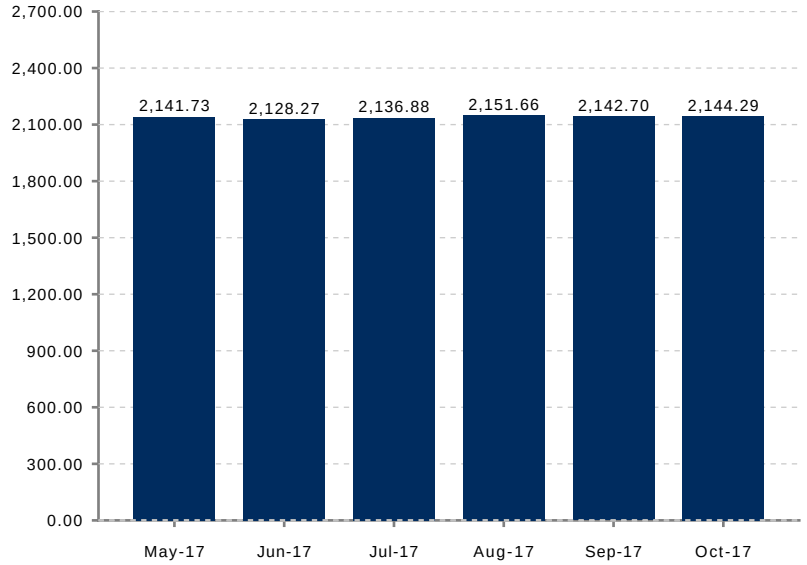
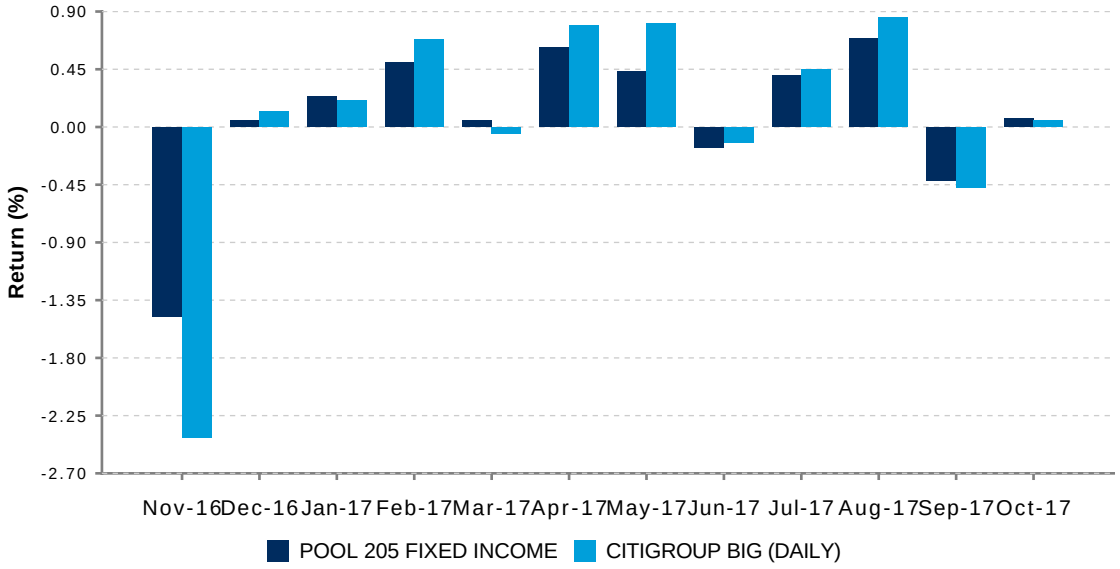
POOL 205 FIXED INCOME

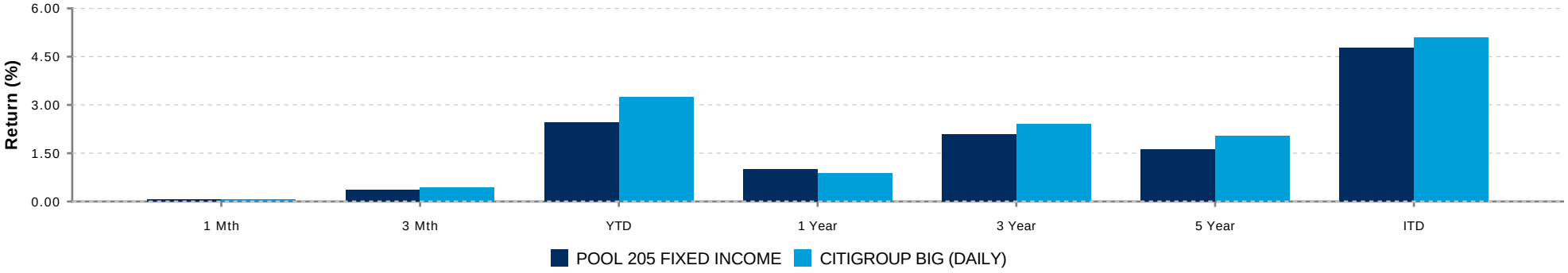
Net Asset Values over Time ($MM)



Monthly Returns



Rates of Return



	1 Mth	3 Mth	YTD	1 Year	3 Year	5 Year	ITD	Oct 31 2017	Oct 31 2016	Oct 31 2015
POOL 205 FIXED INCOME	0.07	0.35	2.46	0.99	2.09	1.62	4.77	0.99	3.41	1.89
CITIGROUP BIG (DAILY)	0.05	0.43	3.24	0.87	2.40	2.03	5.09	0.87	4.44	1.93
Excess	0.03	-0.08	-0.78	0.13	-0.31	-0.41	-0.32	0.13	-1.03	-0.04

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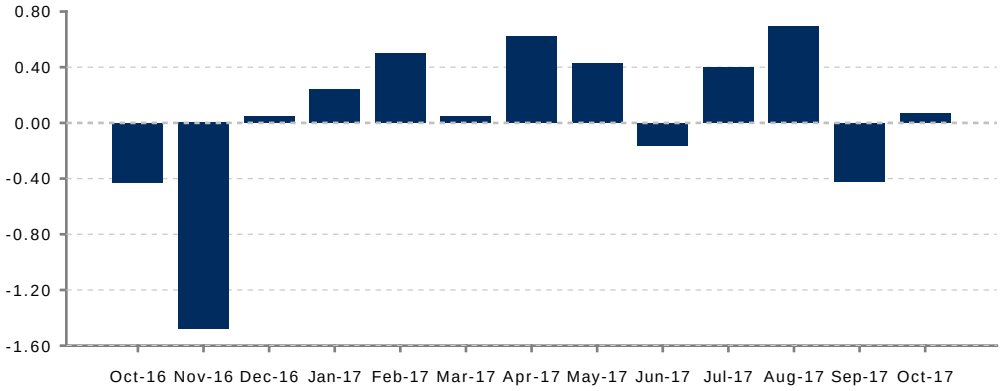
October 31, 2017

POOL 205 FIXED INCOME

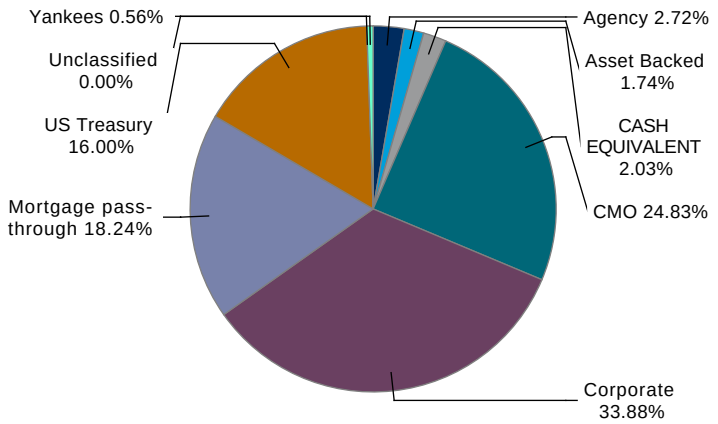
Net Mgr Return



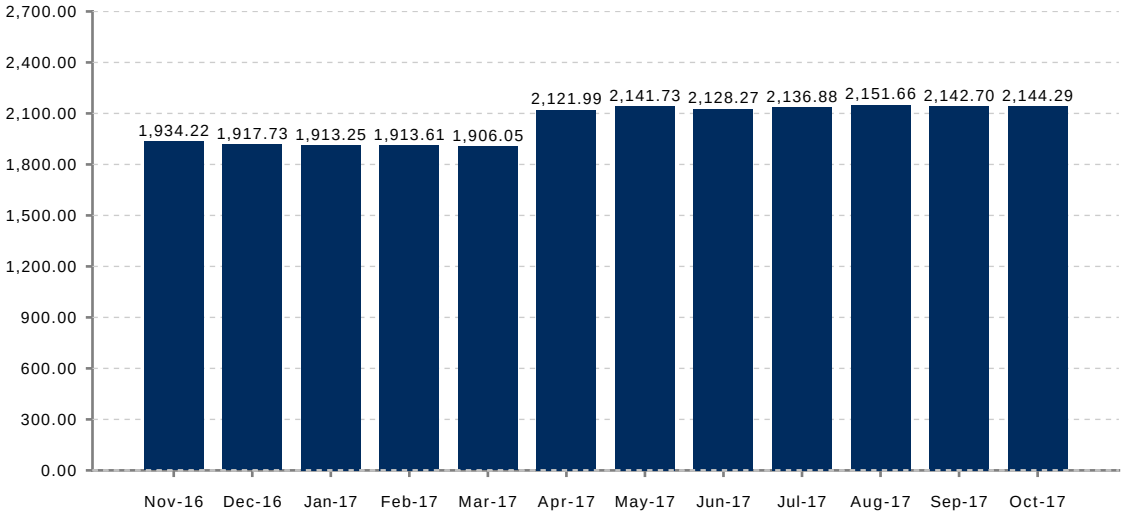
	Current Mth	Prior Mth	1 Year Ago
POOL 205 FIXED INCOME	0.07	-0.42	-0.43

Asset Allocation

	Ending Market Value
POOL 205 FIXED INCOME	2,144,287,911



Net Asset Values over Time ($MM)



Top 10 Holdings

Security Name	Ending Market Value	% of Portfolio
POOL 205 FIXED INCOME		
US TREASURY N/B	29,438,468	1.37
US TREASURY N/B	27,900,272	1.30
US TREASURY N/B	27,378,329	1.28
US TREASURY N/B	25,230,140	1.18
BLACKROCK PROV TEMP	23,171,849	1.08
US TREASURY N/B	22,783,407	1.06
US TREASURY N/B	20,511,863	0.96
US TREASURY N/B	20,486,923	0.96
PEPSICO INC	20,255,160	0.94
PNC BANK NA	20,138,319	0.94

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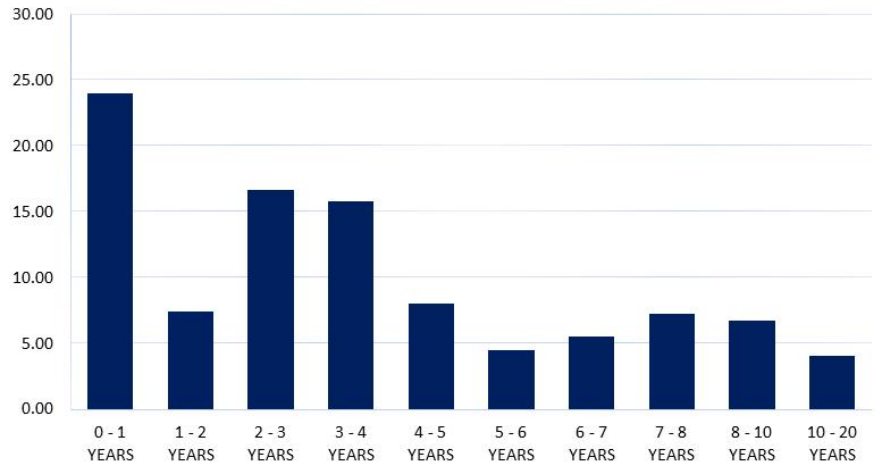
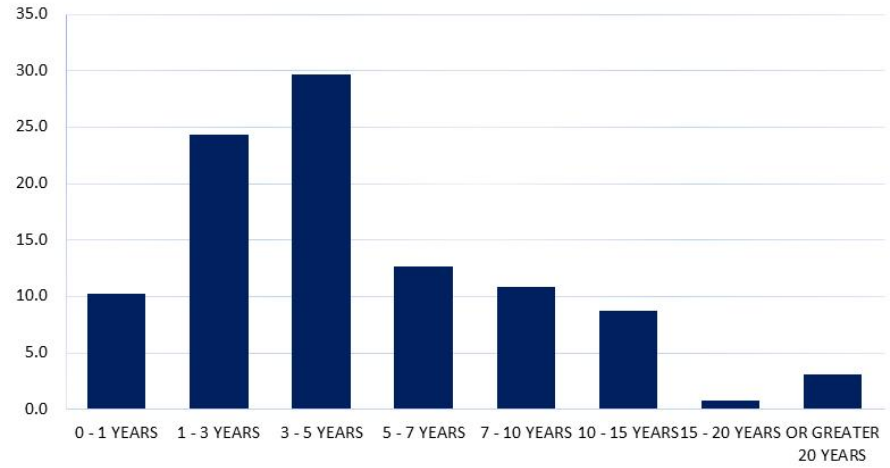
POOL 205 FIXED INCOME

Duration Distribution



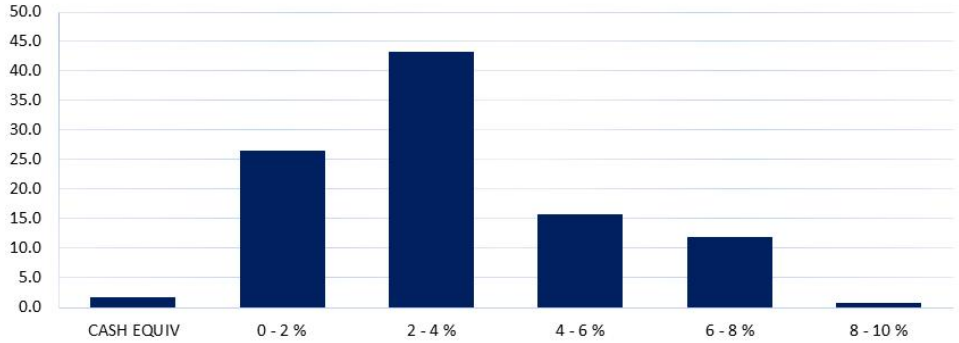
Expected Maturity Distribution



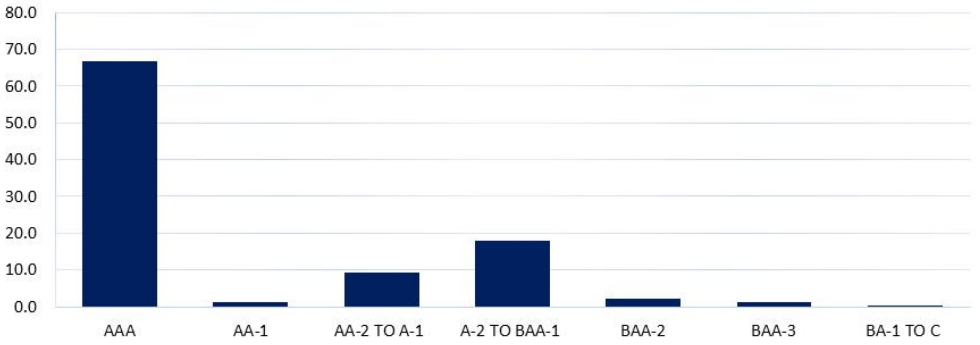
Portfolio Level Characteristics

	POOL 205 FIXED INCOME
Weighted Average Life	5.14
Coupon	3.33
Effective Duration	3.73
Quality Rating (Moody's)	AA-2

Coupon Distribution



Rating Distribution



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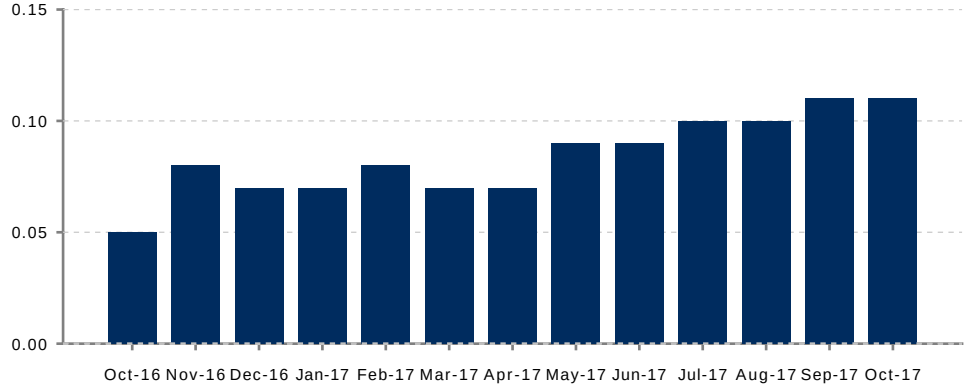
POOL 123 ST

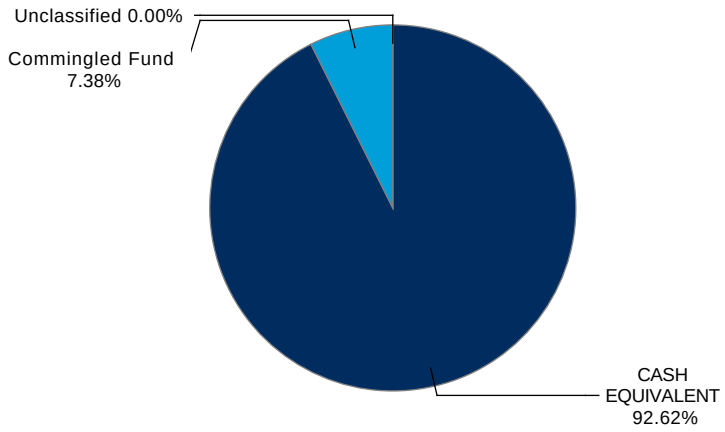
Net Yield



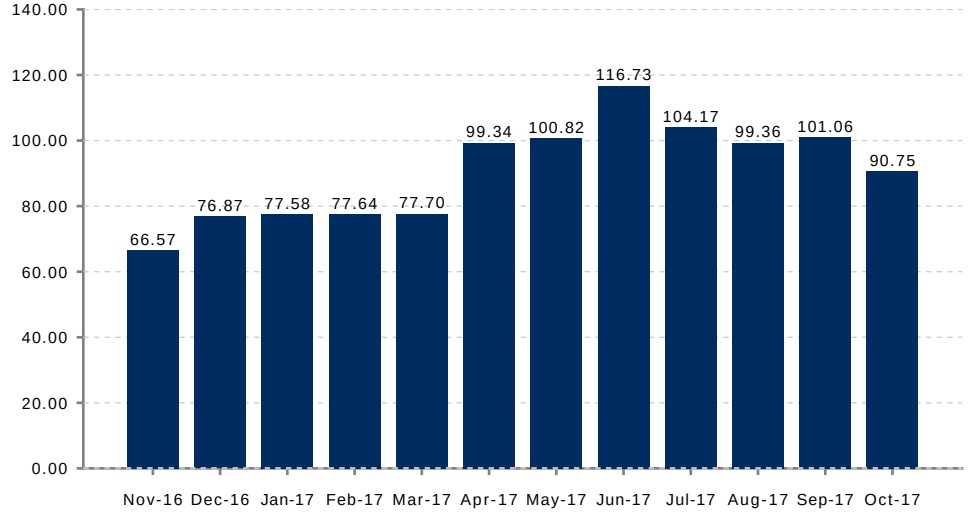
	Current Mth	Prior Mth	1 Year Ago
POOL 123 ST	0.11	0.11	0.05

Asset Allocation

	Ending Market Value
POOL 123 ST	90,747,437



Net Asset Values over Time ($MM)



Top 10 Holdings

Security Name	Ending Market Value	% of Portfolio
POOL 123 ST		
PRAXAIR INC	16,981,697	18.71
INSTITUTIONAL SECURED	16,968,068	18.70
BLACKROCK PROV TEMP BLACKROCK PROV TEMP FUND 24	16,701,929	18.40
HALKIN FINANCE LLC USC	14,990,104	16.52
MANHATTAN ASSET FDG.	9,993,508	11.01
VICTORY RECEIVABLES	8,427,303	9.29
LOCAL GOVERNMENT INVEST POOL	6,697,710	7.38
SHEFFIELD RECEIVABLE	0	0.00
HALKIN FINANCE LLC USC	0	0.00
MISCELLANEOUS	0	0.00

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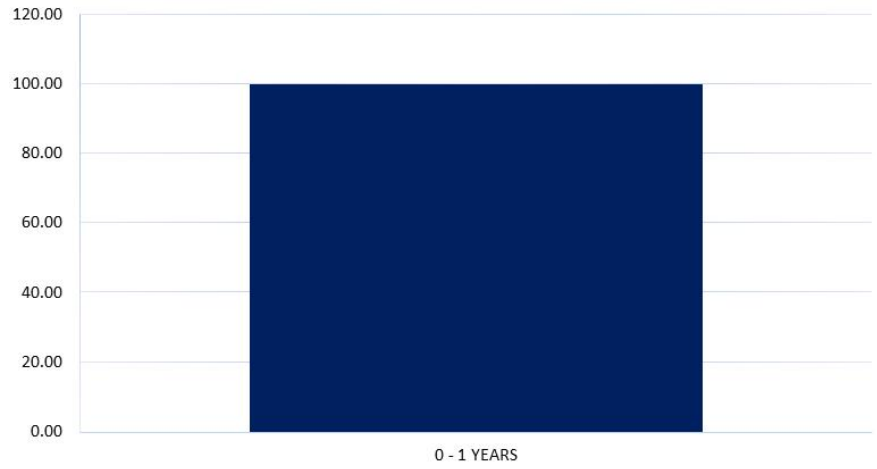
POOL 123 ST

Duration Distribution

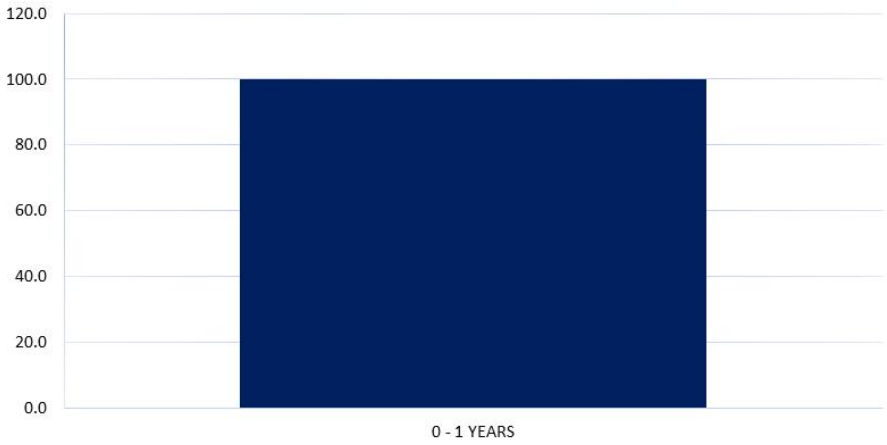


Portfolio Level Characteristics

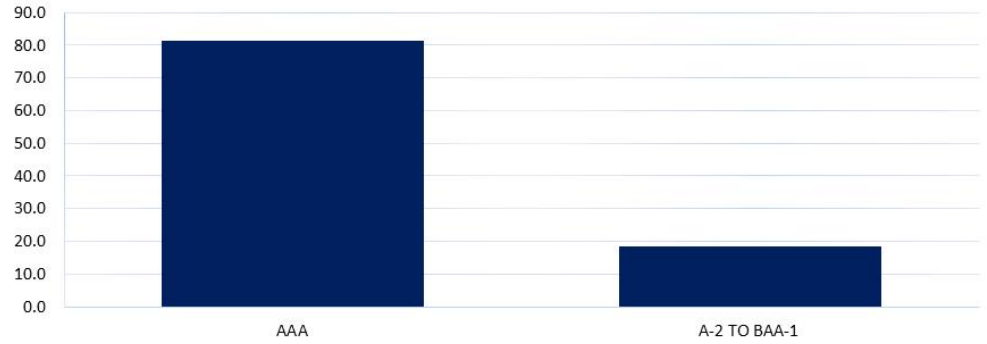
	POOL 123 ST
Weighted Average Life	0.06
Coupon	0.00
Effective Duration	0.06
Quality Rating (Moody's)	AA-2

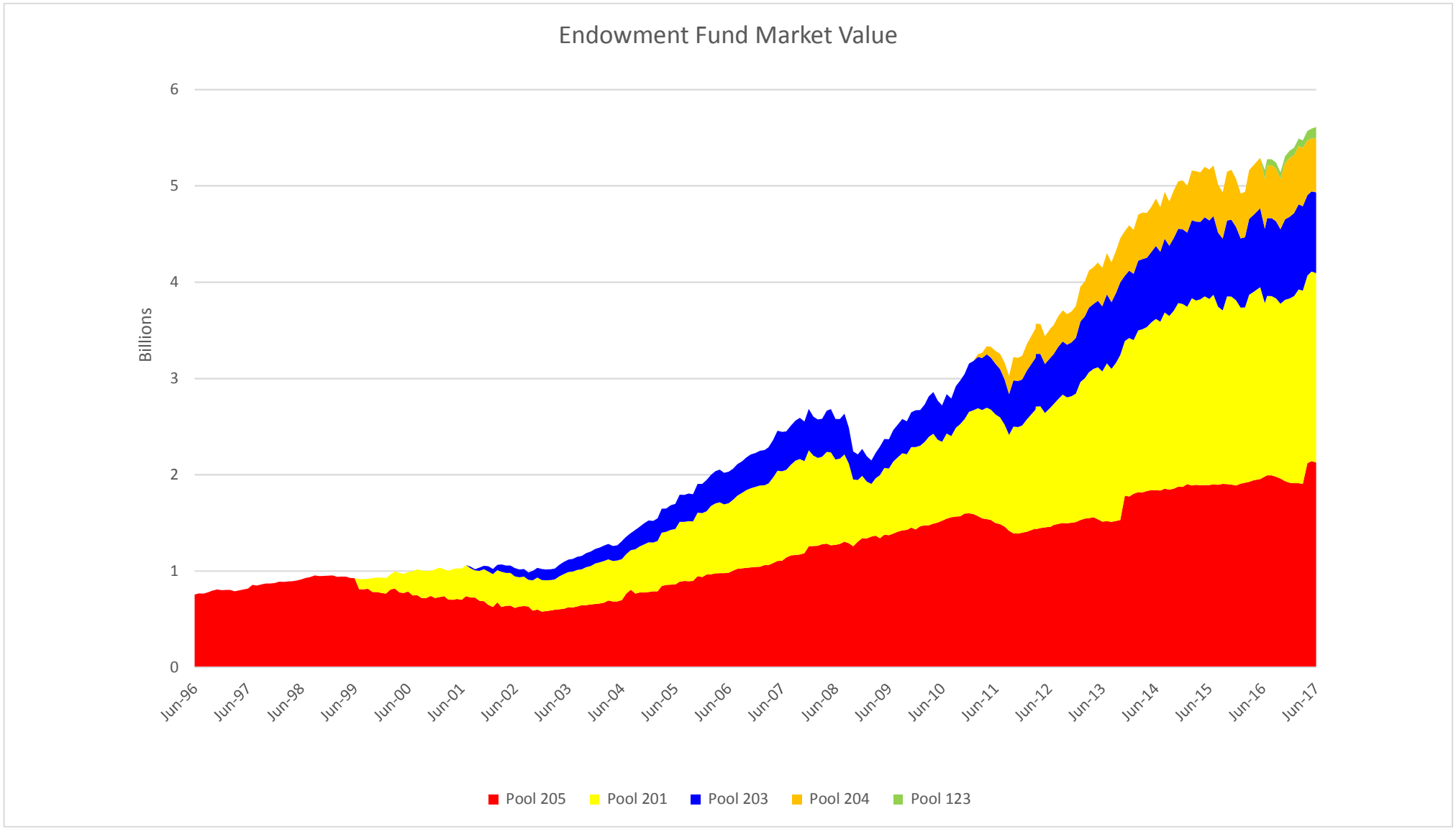
Coupon Distribution

Expected Maturity Distribution



Rating Distribution




Endowment Fund Market Value
Billions
6
5
4
3
2
1
0
Jun-96
Jun-97
Jun-98
Jun-99
Jun-00
Jun-01
Jun-02
Jun-03
Jun-04
Jun-05
Jun-06
Jun-07
Jun-08
Jun-09
Jun-10
Jun-11
Jun-12
Jun-13
Jun-14
Jun-15
Jun-16
Jun-17
Pool 205
Pool 201
Pool 203
Pool 204
Pool 123