Police and Fire Retirement Plan Dashboard

"OUR MISSION IS TO ENSURE PROMPT DELIVERY OF SERVICES AND BENEFITS TO OUR MEMBERS, AND TO COLLECT, INVEST, AND EXPEND SYSTEM ASSETS IN A PRUDENT, FAIR, AND TIMELY MANNER".

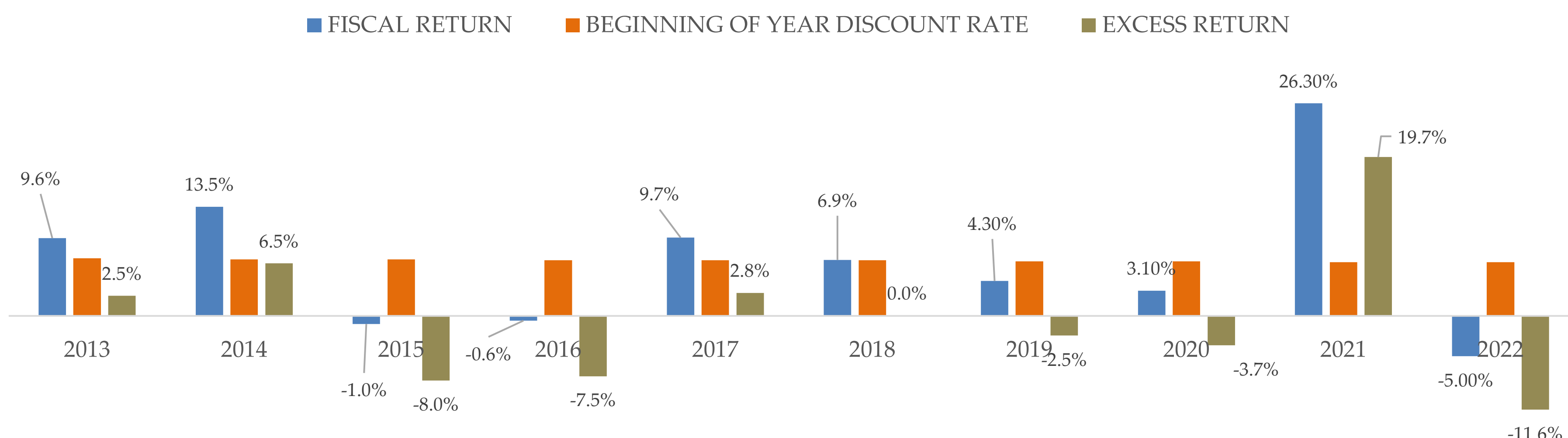
Contents

Police and Fire Discount Rate History

Changes as of 3/31/23

YEARS	FISCAL YEAR	10 YEAR US TREASURY RATE	DISCOUNT RATE	FISCAL YEAR RETURN*	EXCESS TO DISCOUNT RATE
	1997	6.51%	8.00%		
1	2013	2.52%	7.125%	9.6%	**2.5%**
2	2014	2.53%	7.00%	13.5%	**6.5%**
3	2015	2.35%	7.00%	-1.0%	-8.0%
4	2016	1.49%	6.875%	-0.6%	-7.5%
5	2017	2.31%	6.875%	9.7%	**2.8%**
6	2018	2.85%	6.875%	6.9%	**0.0%**
7	2019	2.01%	6.75%	4.3%	-2.5%
8	2020	0.66%	6.75%	3.1%	**-3.7%**
9	2021	1.47%	6.63%	26.3%	19.7%
10	2022	3.01%	6.63%	-5.0%	**-11.6%**
	** Fiscal Year Ends 6/30. Returns are net of fund management fees.*				

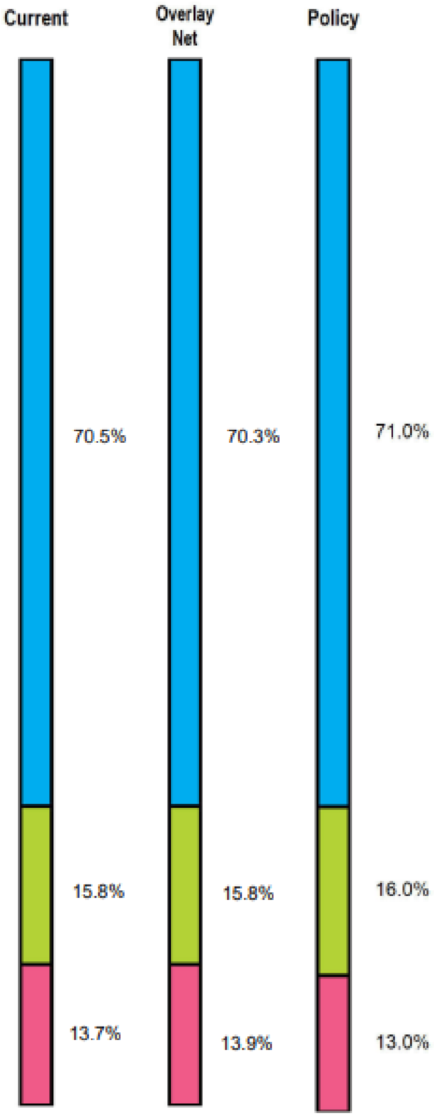
Plan Return versus Discount Rate



Source: Meketa. Annually updated.

INVESTMENT METRICS

Total Fund | As of March 31, 2023



Allocation vs. Targets and Policy

	Current Balance	Current Allocation	Russell Overlay Net Position	Policy
Growth	**$3,225,428,703**	**70.5%**	**70.3%**	**71.0%**
Public Equity	$1,935,211,307	41.9%	41.7%	42.0%
Private Markets	$1,106,717,729	24.7%	24.7%	25.0%
Emerging Markets Debt	$90,063,620	1.9%	1.9%	2.0%
High Yield Bonds	$93,436,047	2.0%	2.0%	2.0%
Low Beta	**$723,815,649**	**15.8%**	**15.8%**	**16.0%**
Market Neutral Strategies	$140,853,305	3.1%	3.1%	3.0%
Immunized Cash Flows	$585,429,203	12.7%	12.7%	13.0%
Cash	$-2,466,859	0.0%	0.0%	0.0%
Other	**$636,813,483**	**13.7%**	**13.9%**	**13.0%**
Core Real Estate	$280,283,562	6.0%	6.0%	5.0%
TIPS	$91,328,308	2.0%	2.0%	2.0%
Investment Grade Bonds	$198,854,858	4.3%	4.4%	4.5%
Long Term Government Bonds	$66,346,754	1.4%	1.5%	1.5%

[1] Data in the column titled "Russel Overlay Net Position" is based on physical exposures, adjusted for synthetic positions provided by Russell Investments.

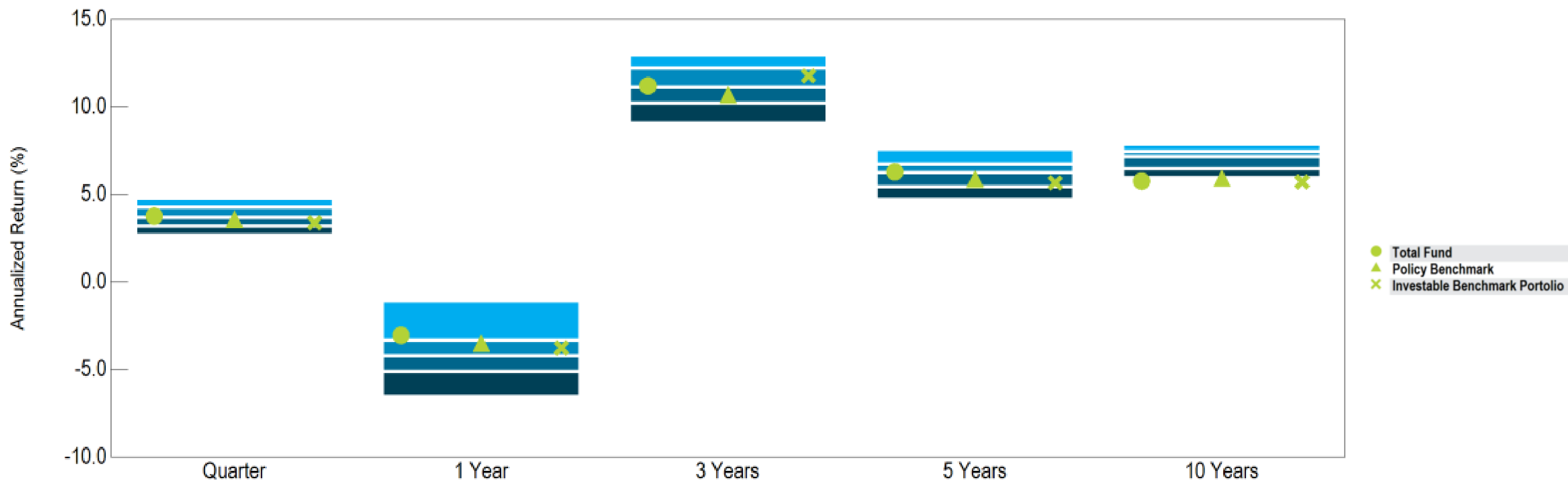
[2] Policy Targets represent approved asset allocation from March of 2022.

[3] All data on this page is from Russell Investments and reflects trades made on or before 3/31/2023. Data on subsequent pages is from the custodian and may not reflect all trades made on or before 3/31/2023 depending on the settlement date of transaction.

Source: Meketa. Quarterly updated.

INVESTMENT METRICS

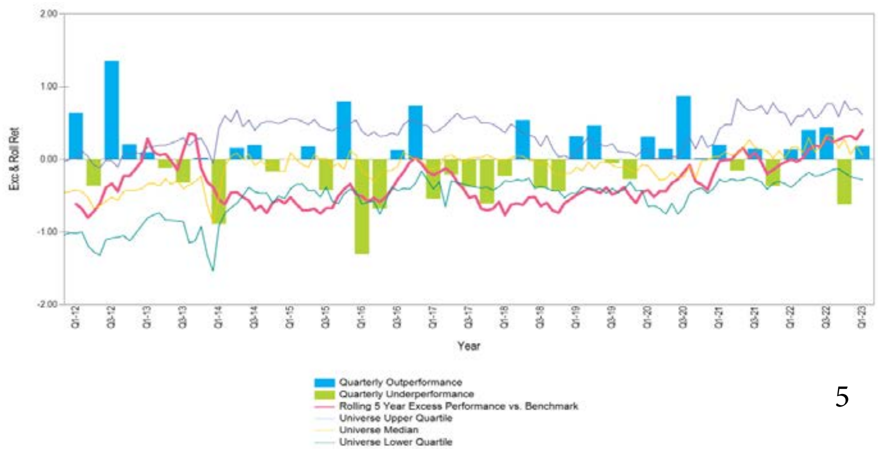
Performance vs. InvMetrics Public DB > $1B Net (Annualized Return)



Performance vs. InvestorForce Public DB > $1B Net (Ranking)

	Quarter	1 Year	3 Years	5 Years	10 Years
			Period		
Return (Rank)					
5th Percentile	4.8	-1.1	13.0	7.6	7.9
25th Percentile	4.3	-3.3	12.2	6.8	7.5
Median	3.7	-4.2	11.1	6.3	7.2
75th Percentile	3.2	-5.1	10.2	5.4	6.5
95th Percentile	2.7	-6.5	9.1	4.7	6.0
# of Portfolios	58	58	58	58	55

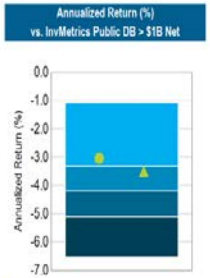
Quarterly Cumulative Excess Performance

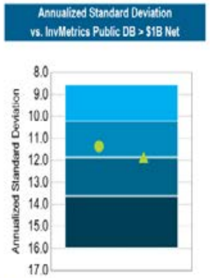


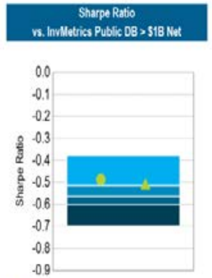
Source: Meketa. Quarterly updated.

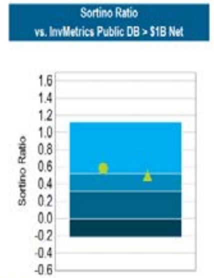
INVESTMENT METRICS

Risk Adjusted Performance – 1 Year



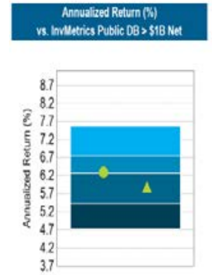


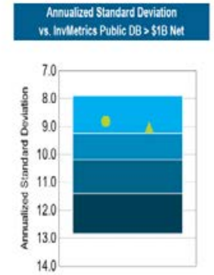


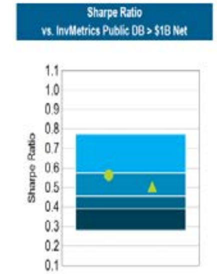


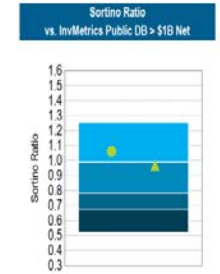
	Annualized Return (%)	Annualized Standard Deviation	Sharpe Ratio	Sortino Ratio
Total Fund				
Value	-3.0	11.4	-0.5	0.6
Rank	18	39	19	18
Policy Benchmark				
Value	-3.5	11.9	-0.5	0.5
Rank	33	51	23	27
Universe				
5th %tile	-1.1	8.5	-0.4	1.1
25th %tile	-3.3	10.2	-0.5	0.5
Median	-4.2	11.9	-0.6	0.3
75th %tile	-5.1	13.6	-0.6	0.0
95th %tile	-6.5	15.9	-0.7	-0.2

Risk Adjusted Performance – 5 Years



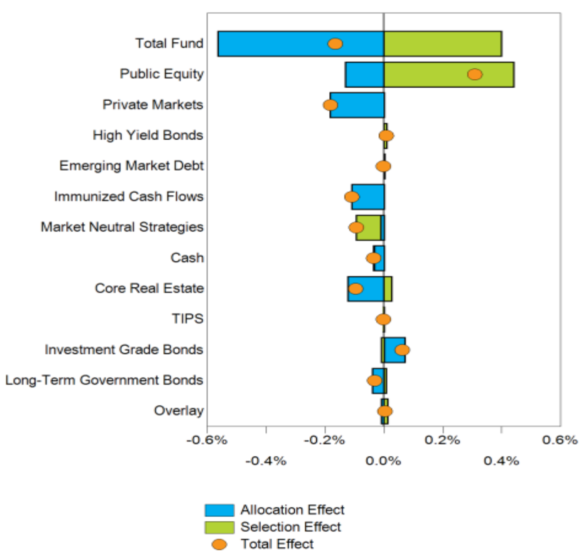




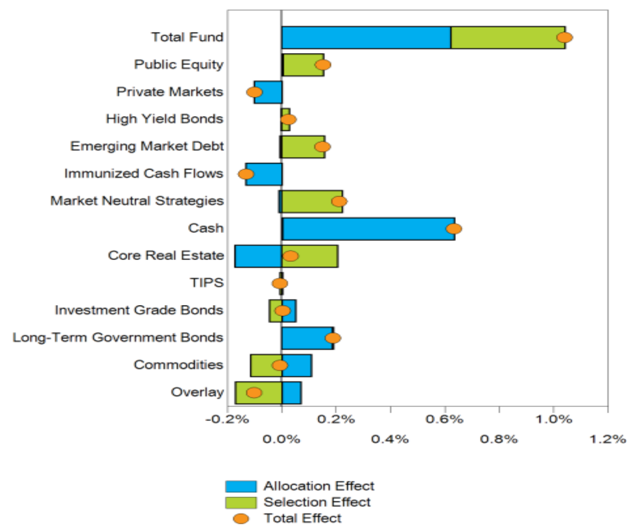


	Annualized Return (%)	Annualized Standard Deviation	Sharpe Ratio	Sortino Ratio
Total Fund				
Value	6.3	8.8	0.6	1.1
Rank	50	20	27	20
Policy Benchmark				
Value	5.9	9.0	0.5	1.0
Rank	61	22	36	27
Universe				
5th %tile	7.6	7.9	0.8	1.3
25th %tile	6.8	9.2	0.6	1.0
Median	6.3	10.2	0.5	0.8
75th %tile	5.4	11.4	0.4	0.7
95th %tile	4.7	12.8	0.3	0.5

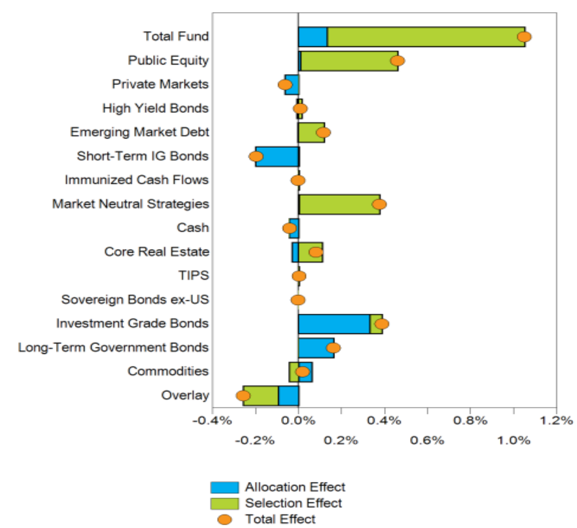
Attribution Effects – 3 Months



Attribution Effects – 1 Year



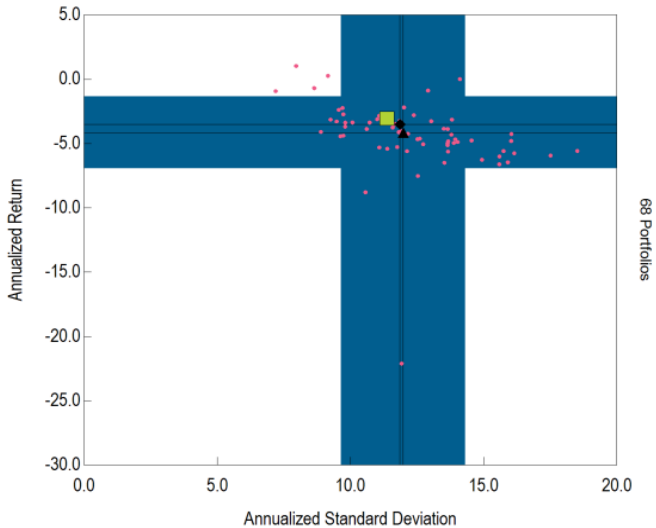
Attribution Effects – 3 Years



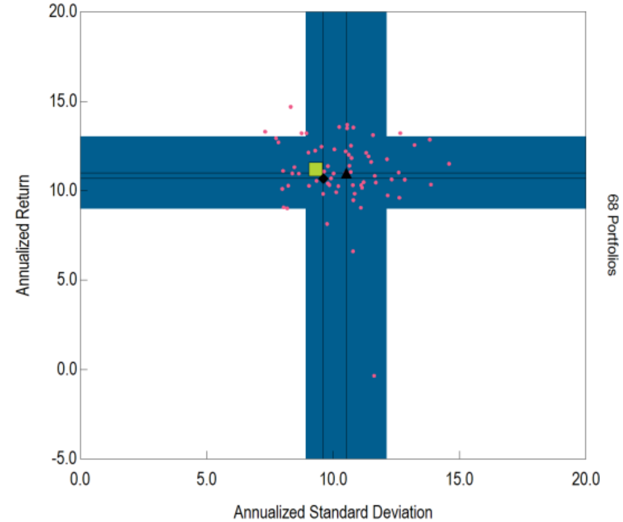
Source: Meketa. Quarterly updated.

INVESTMENT METRICS

Plan Risk vs. Return – 1 Year

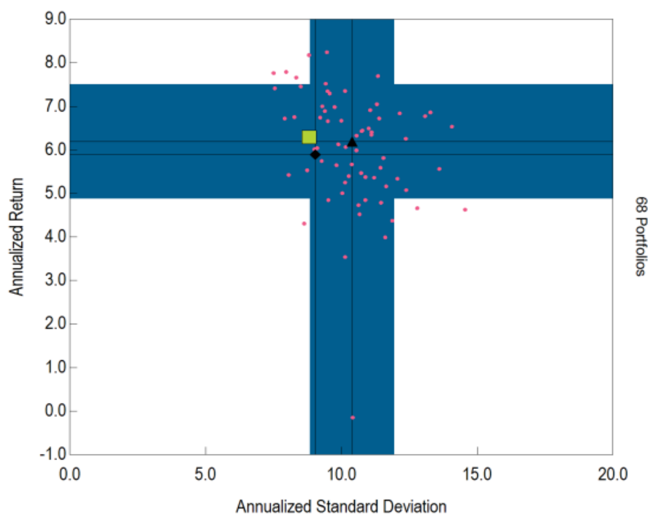


Plan Risk vs. Return – 3 Years

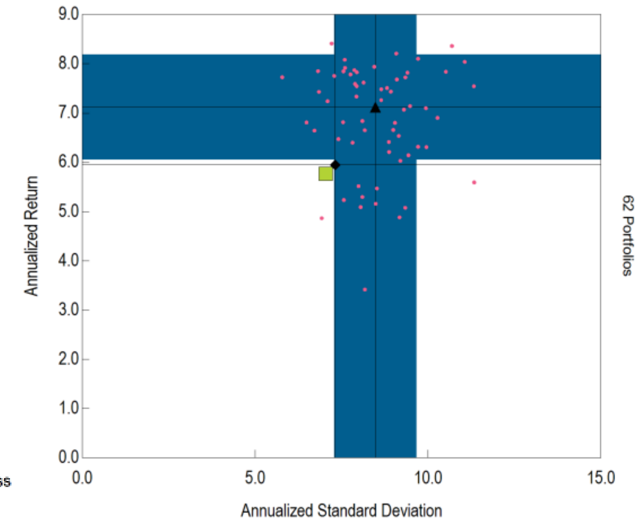


- Total Fund
- Policy Benchmark
- Universe Median
- 68% Confidence Interval
- InvestorForce Public DB > $1B Gross

Plan Risk vs. Return – 5 Years



Plan Risk vs. Return – 10 Years



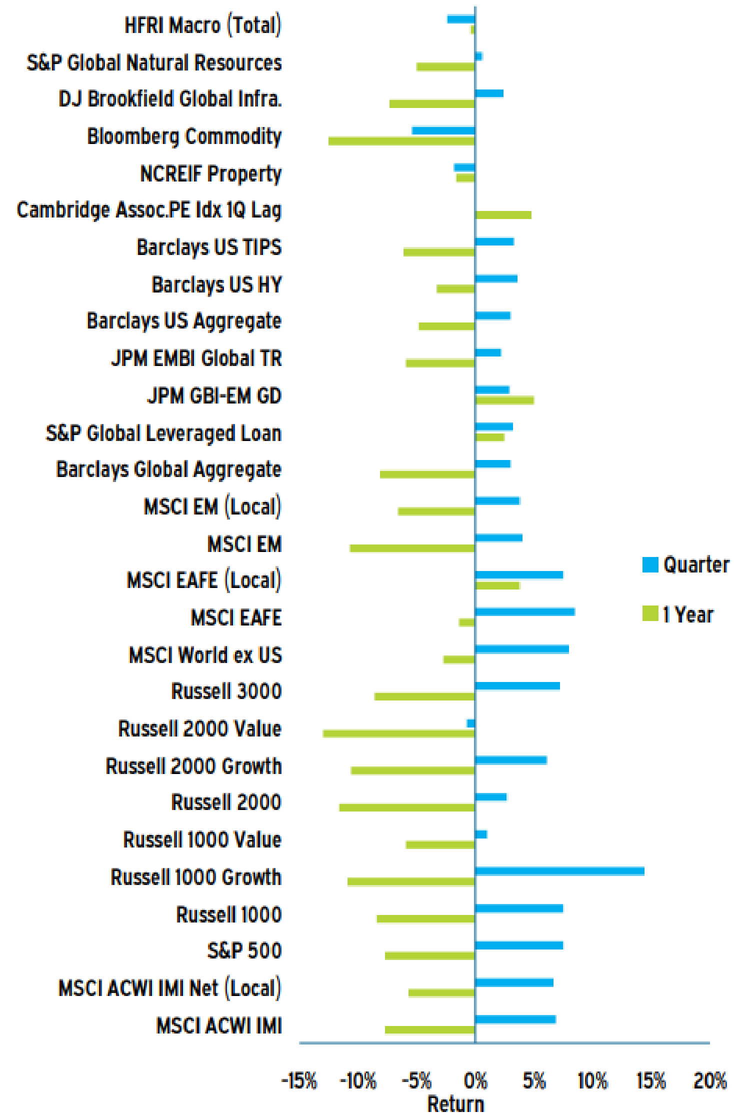
- Total Fund
- Policy Benchmark
- Universe Median
- 68% Confidence Interval
- InvestorForce Public DB > $1B Gross

Source: Meketa. Quarterly updated.

CAPITAL MARKET OVERVIEW

Market Environment – 1Q23 Overview

Benchmark	Scope	1Q23 (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)
Global Equity						
MSCI ACWI IMI	World	6.9	-7.7	15.6	6.6	7.9
MSCI ACWI IMI Net (Local)	World (Local Currency)	6.7	-5.7	16.1	7.8	9.1
Domestic Equity						
S&P 500	Large Core	7.5	-7.7	18.6	11.2	12.2
Russell 1000	Large Core	7.5	-8.4	18.6	10.9	12.0
Russell 1000 Growth	Large Growth	14.4	-10.9	18.6	13.7	14.6
Russell 1000 Value	Large Value	1.0	-5.9	17.9	7.5	9.1
Russell 2000	Small Core	2.7	-11.6	17.5	4.7	8.0
Russell 2000 Growth	Small Growth	6.1	-10.6	13.4	4.3	8.5
Russell 2000 Value	Small Value	-0.7	-13.0	21.0	4.5	7.2
Russell 3000	All Cap Core	7.2	-8.6	18.5	10.4	11.7
International Equity						
MSCI World ex US	World ex-US	8.0	-2.7	13.5	3.8	4.9
MSCI EAFE	International Developed	8.5	-1.4	13.0	3.5	5.0
MSCI EAFE (Local)	International Developed (Local Currency)	7.5	3.8	14.6	6.2	7.3
MSCI EM	Emerging Markets	4.0	-10.7	7.8	-0.9	2.0
MSCI EM (Local)	Emerging Markets (Local Currency)	3.8	-6.6	8.8	1.9	5.0
Global Fixed Income						
Barclays Global Aggregate	Global Core Bonds	3.0	-8.1	-3.4	-1.3	0.1
S&P Global Leveraged Loan	Bank Loans	3.2	2.5	8.5	3.1	3.5
JPM GBI-EM GD	Emerging Markets Bonds (Local Currency)	2.9	5.0	1.0	2.9	4.5
JPM EMBI Global TR	Emerging Market Bonds	2.2	-5.9	0.3	-0.2	1.8
Domestic Fixed Income						
Barclays US Aggregate	Core Bonds	3.0	-4.8	-2.8	0.9	1.4
Barclays US HY	High Yield	3.6	-3.3	5.9	3.2	4.1
Barclays US TIPS	Inflation	3.3	-6.1	1.8	2.9	1.5
Other						
Cambridge AssociatesPE Index 1Qtr Lag	Private Equity	0.0	4.8	24.8	22.1	18.1
NCREIF Property	Real Estate	-1.8	-1.6	7.2	6.7	8.3
Bloomberg Commodity	Commodities	-5.4	-12.5	20.8	5.4	-1.7
DJ Brookfield Global Infrastructure	Infrastructure	2.4	-7.3	10.5	6.0	5.8
S&P Global Natural Resources	Natural Resources	0.6	-5.0	27.7	7.8	5.1
HFRI Macro	Hedge Funds	-2.4	-0.4	7.0	4.6	2.7



Source: Meketa, Quarterly updated.

RISK METRICS

1 Portfolio risk

Portfolio: 12.2% | Policy: 12.0% | Peer Group: 11.1% | Liability: 10.3%

2 Portfolio equity beta

Portfolio: 0.70 | Policy: 0.69 | Peer Group: 0.64

3 Portfolio interest rate risk - Duration

Portfolio: 1.0 | Policy: 1.1 | Peer Group: 1.5 | Liability: 13.1

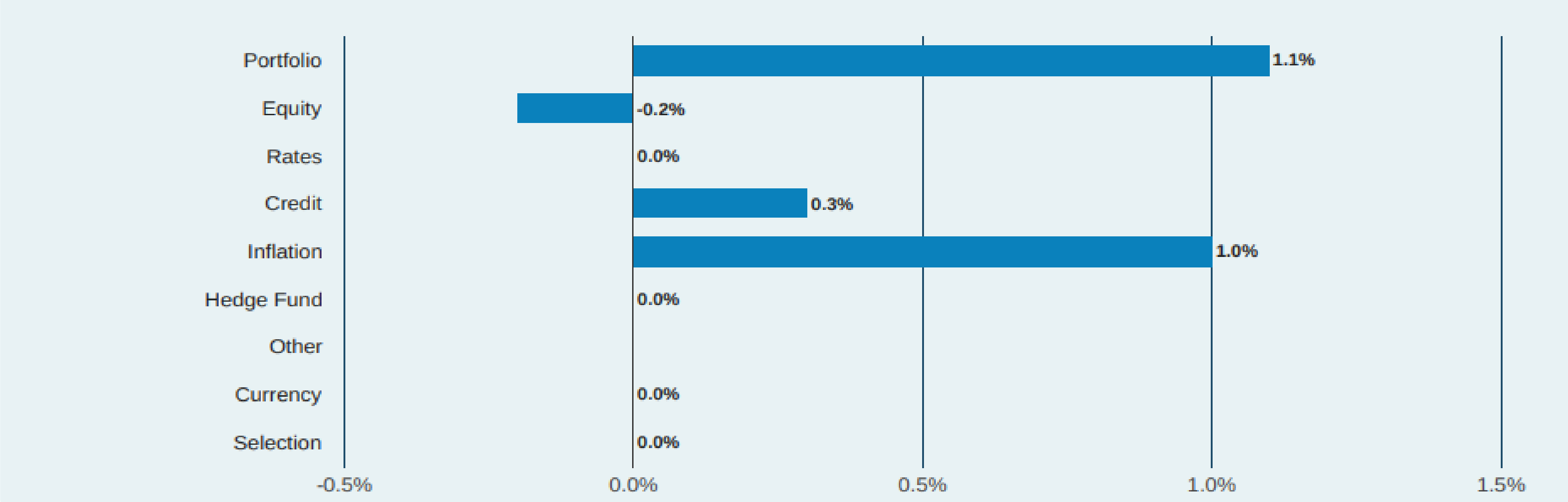
4 Portfolio credit risk - Spread duration

Portfolio: 0.6 | Policy: 0.6 | Peer Group: 1.0

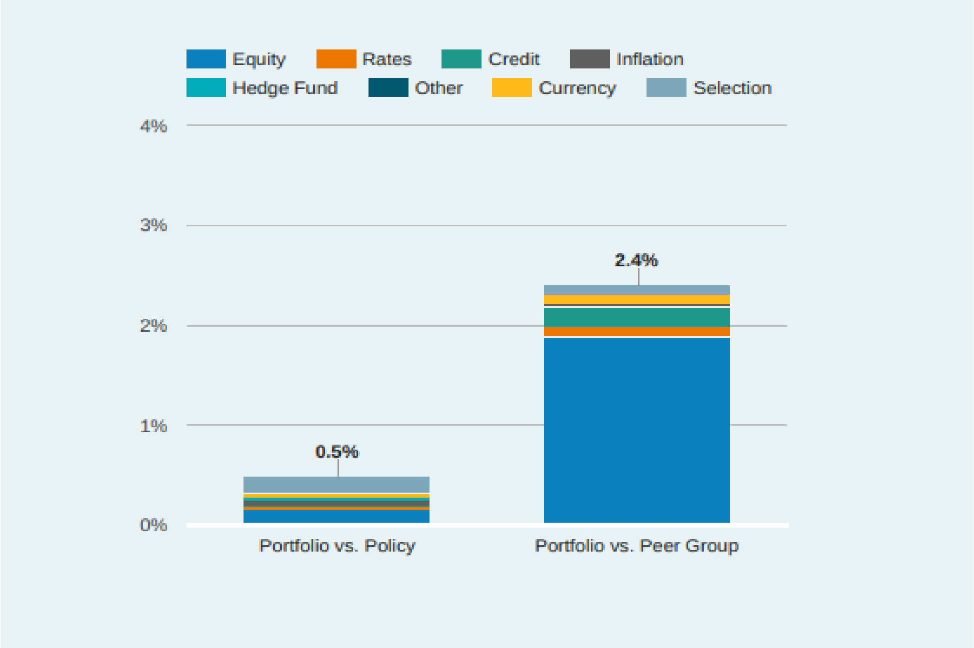
Source: Verus

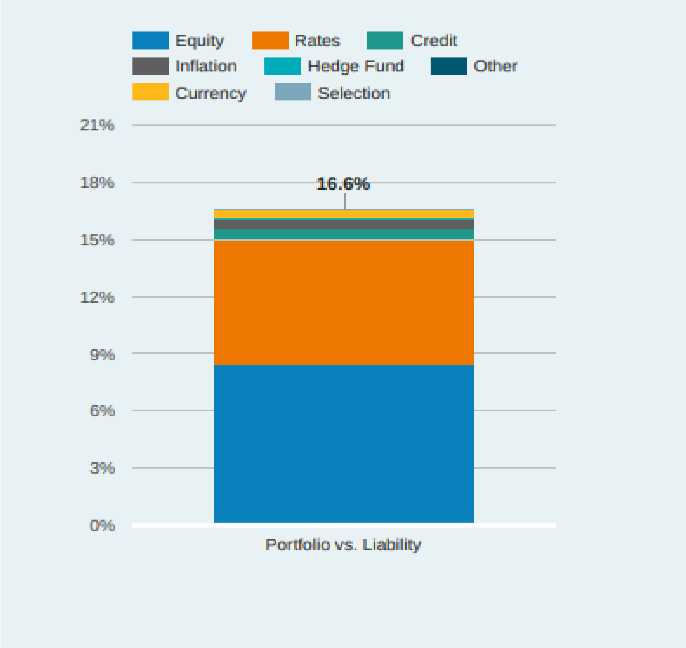
RISK METRICS

7 Risk factor weight relative to target



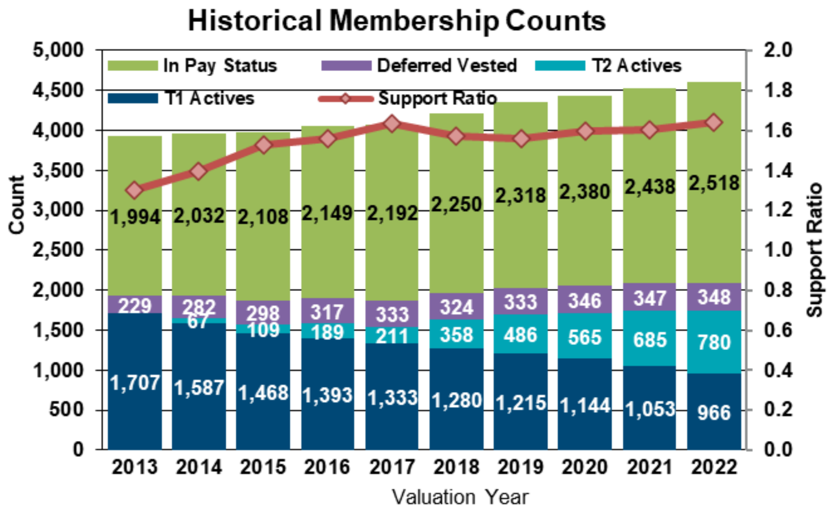
11 Active risk contribution by risk factor

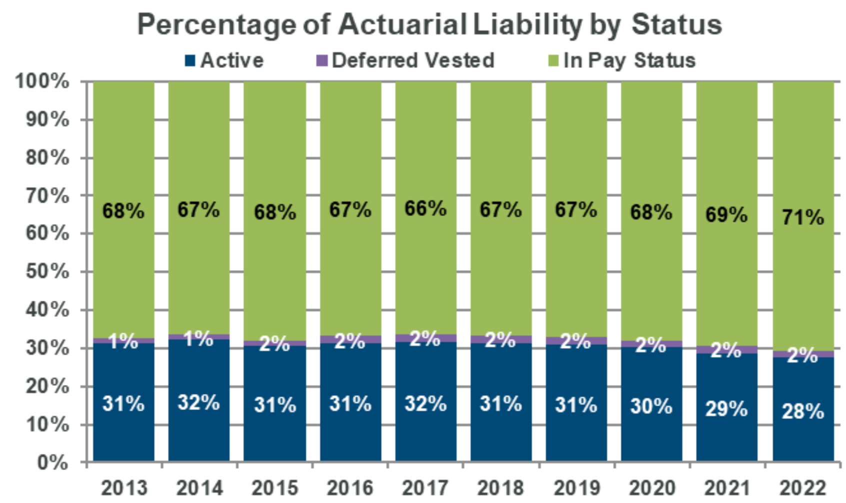


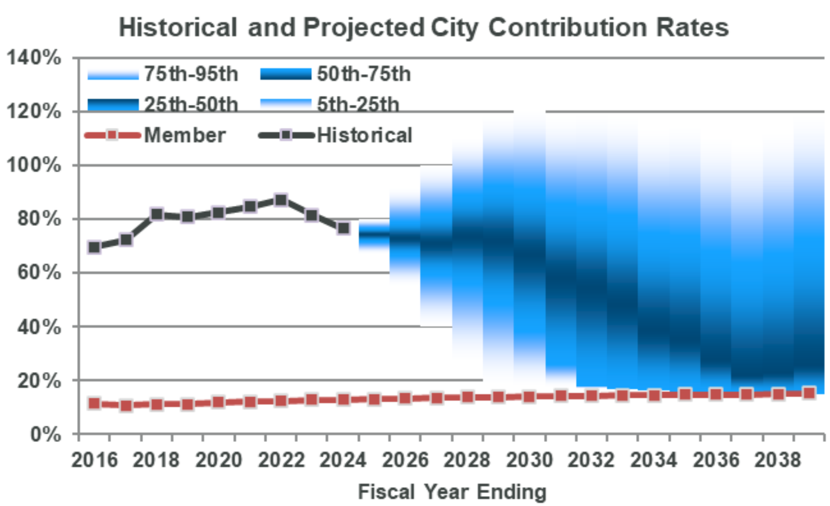


Source: Verus

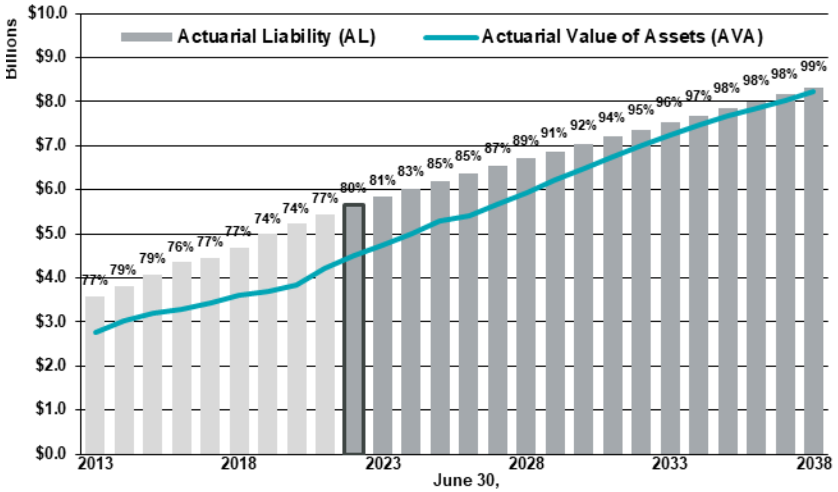
Actuarial Metrics

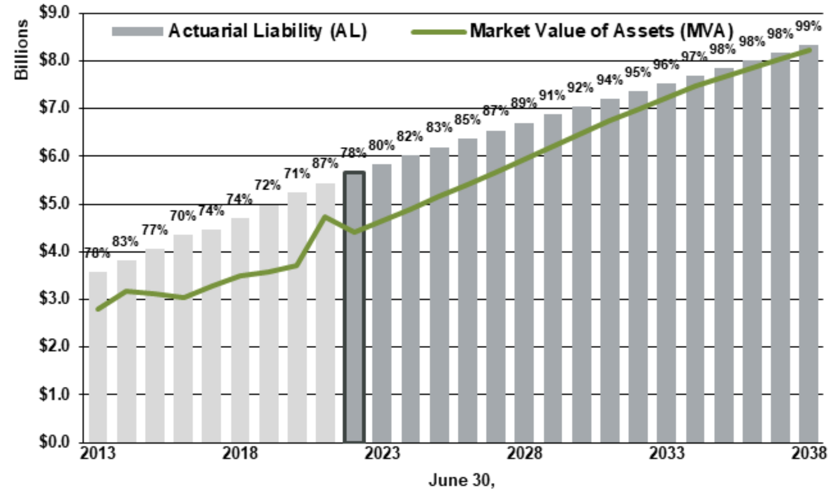




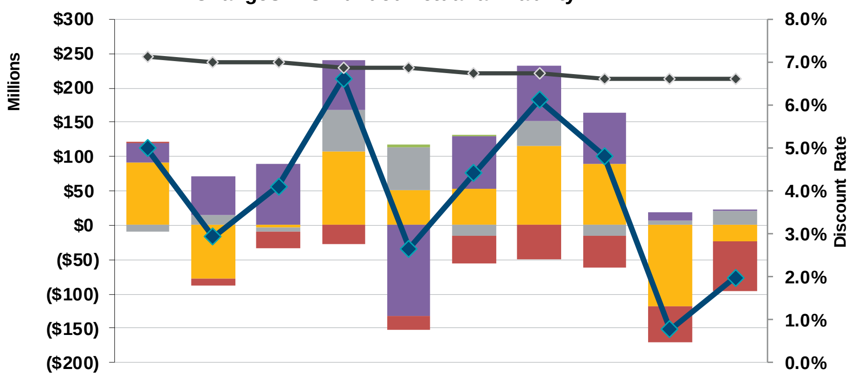


Actuarial Metrics



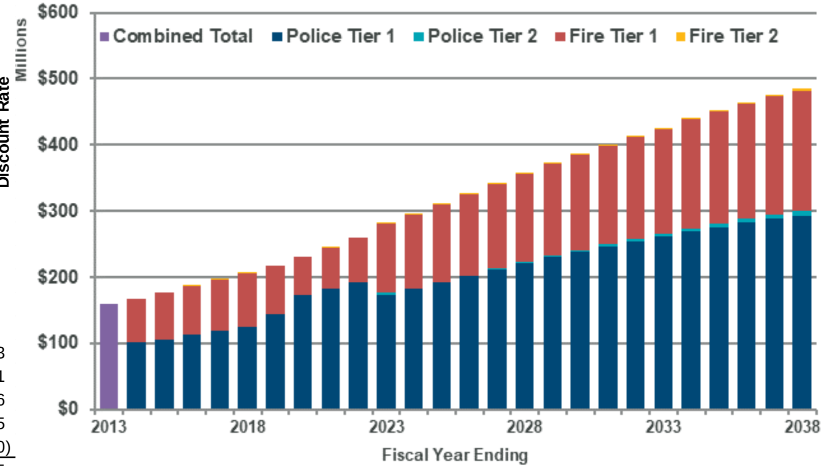


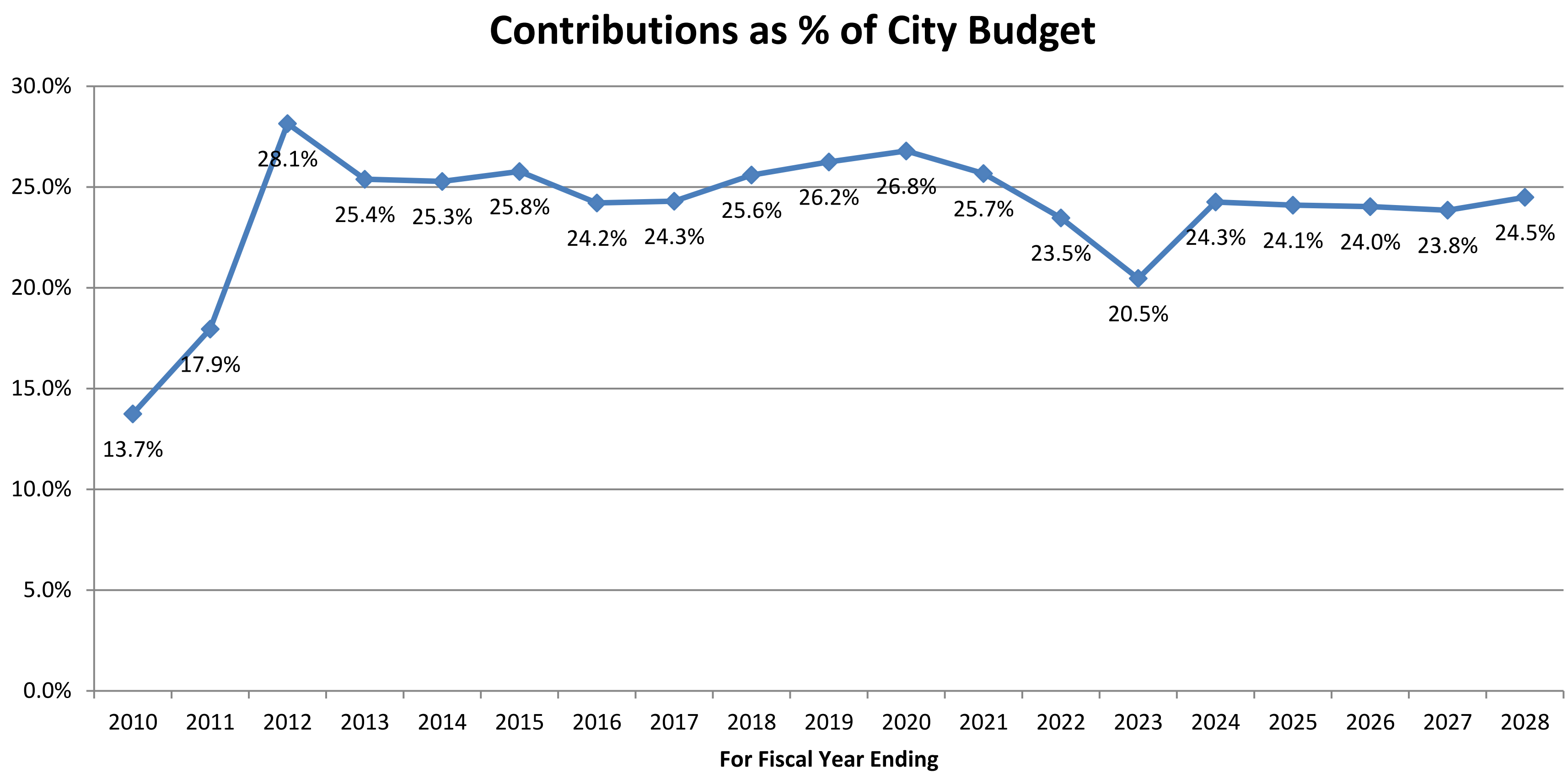
Changes in Unfunded Actuarial Liability



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
AVA Investment (G)/L	91.3	(78.5)	(2.8)	106.8	50.9	53.6	116.2	89.5	(117.2)	(22.5)	287.3
Liability (G)/L	(9.9)	14.7	(7.3)	61.3	61.8	(15.1)	35.1	(15.4)	6.7	20.3	152.1
Assumption Changes	28.2	56.3	90.0	72.7	(131.8)	76.4	80.9	73.5	12.4	0.1	358.6
Benefit Changes	0.0	0.0	0.0	0.0	4.3	0.2	0.0	0.0	0.0	0.0	4.5
Contributions	2.2	(9.9)	(23.0)	(27.4)	(19.6)	(39.7)	(49.8)	(46.5)	(54.1)	(74.2)	(342.0)
Net Change	111.9	(17.4)	56.9	213.3	(34.4)	75.4	182.3	101.3	(152.2)	(76.4)	460.5
Discount Rate	7.125%	7.00%	7.00%	6.875%	6.875%	6.75%	6.75%	6.625%	6.625%	6.625%	

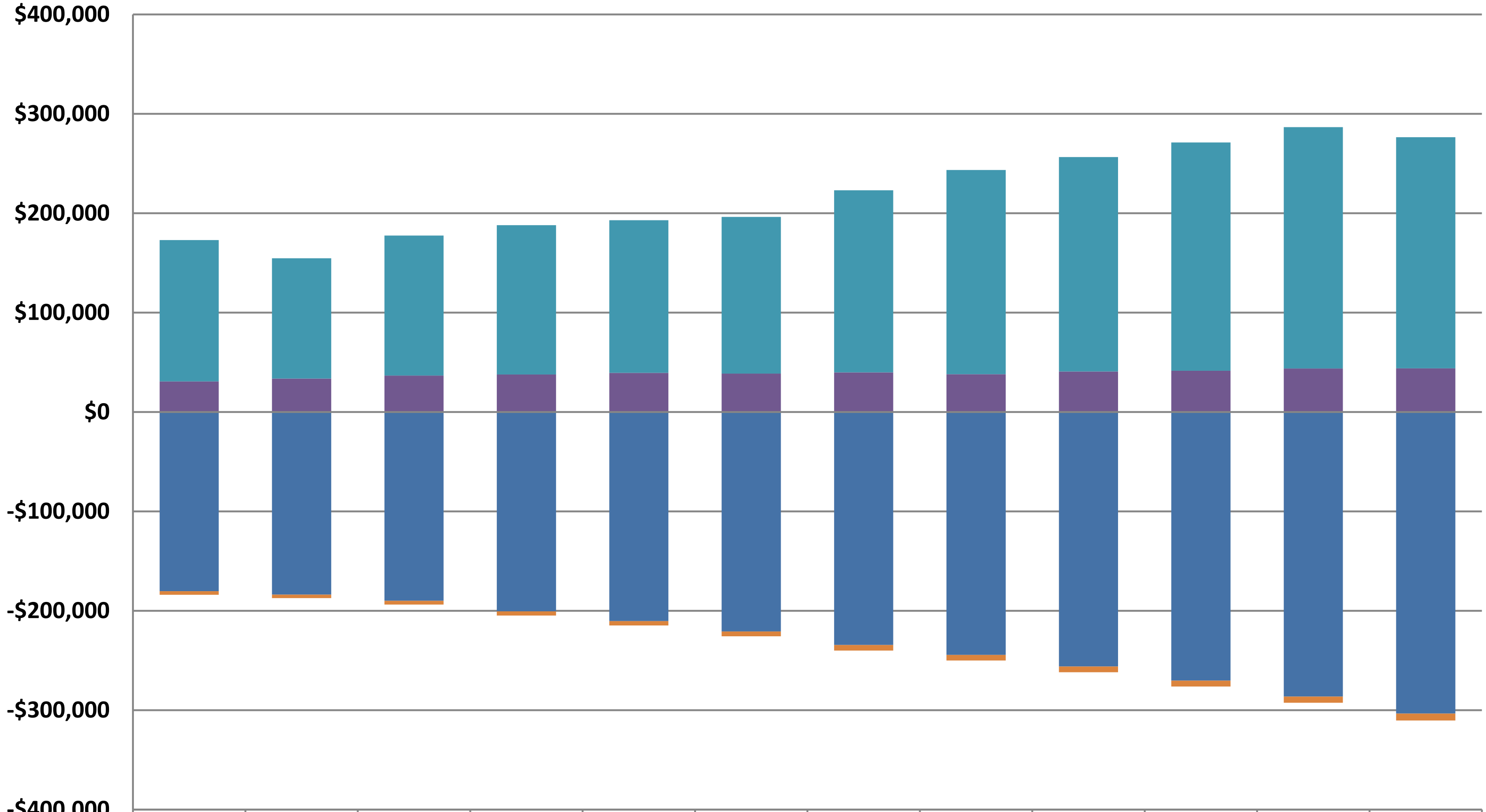
Historical and Projected Benefit Payments





Contribution amounts represent the combined amounts for Federated and Police and Fire. Fiscal years 2024-2028 are the projected contributions and City budget based on the City's 5-Year Forecast and Revenue Projections (General Fund Forecast Expenditure Summary I-25)

Net Cash Flow / Total Additions and Deductions Before Investment Income/Expense
(In Thousands)



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Administrative Expenses	(3,643)	(3,501)	(3,734)	(4,314)	(4,393)	(4,817)	(5,623)	(5,495)	(5,727)	(5,874)	(6,205)	(6,934)
Benefits	(180,199)	(183,636)	(189,907)	(200,458)	(210,389)	(220,831)	(234,316)	(244,411)	(256,039)	(270,284)	(286,334)	(303,352)
Employer Contributions	142,214	121,042	140,850	150,189	153,545	157,624	183,094	205,362	215,831	229,767	242,809	232,513
Employee Contributions	30,819	33,725	36,789	37,764	39,515	38,696	39,968	38,126	40,780	41,508	43,769	43,960

POLICE AND FIRE RETIREMENT PLAN
2023 DISABILITY RETIREMENT STATISTICS

DISABILITY RETIREMENT APPLICATION OVERVIEW BY QUARTER
2023 (CALENDAR YEAR)

QUARTER (CY)	BEGIN OF QTR. OUTSTANDING APPLICATIONS*	NEW APPLICATIONS REVEIVED	APPROVED BY BOARD**	DENIED BY BOARD**	WITHDRAWN BY APPLICANT	END OF QTR. OUTSTANDING APPLICATIONS*	APPLICATIONS ACTIVELY BEING PROCESSED	DEFERRED BY ATTORNEY OR APPLICANT
1 (Jan-Mar)	137	6	3	0	1	139	55	13
2 (Apr-June)	139	7	3	0	2	141	68	13
3 (July-Sept)	141	7	10	0	1	137	71	13
4 (Oct-Dec)								

*Not Including Deferred Applications
**Detailed in the Application Processing Time table

DISABILITY RETIREMENT APPLICATION PROCESSING TIME BY APPLICANT
2023 QUARTER 3 (CALENDAR YEAR)

Board Agenda	Dept	Type of Disability Retirement	Applicant Status	Days From App. Rec'd. to MMI***	Days From MMI to IME Evaluation	Days From Report to Committee	Days From Committee to Board	Total Days (App. To Board)	Board Action	Name	Notes
August	Police	Service-Connected	Leave of Absence	566	2,199	34	59	**2,869**	Approved	D. Goldfinger	
August	Police	Service-Connected	Retired	110	4,371	41	59	**4,592**	Approved	S. Papenfuhs	
August	Fire	Service-Connected	Modified Duty	2,175	604	39	59	**2,890**	Approved	J. Rohrabaugh	
August	Police	Service-Connected	Full Duty	1,148	3,251	33	59	**4,503**	Approved	J. Smith	
September	Fire	Service-Connected	Leave of Absence	44	2,152	53	31	**2,290**	Approved	M. Igno	
September	Police	Service-Connected	Retired	0	2,250	54	31	**2,347**	Approved	D. McCollum	
September	Police	Service-Connected	Retired	0	2,643	41	31	**2,726**	Approved	M. Okubo	
September	Police	Service-Connected	Leave of Absence	929	1,347	52	31	**2,373**	Approved	C. Proft	
September	Fire	Service-Connected	Full Duty	0	2,136	39	31	**2,219**	Approved	B. Stallard	
September	Fire	Service-Connected	Total Temp Disability	2,201	126	56	31	**2,424**	Approved	J. Valle	

***MMI (Maximum Medical Improvement)

Appendix

- Investment Dashboard – Updated Quarterly
- Actuarial Dashboard – Updated Annually
- Accounting Dashboard – Updated Annually
- Benefits Dashboard – Updated Quarterly