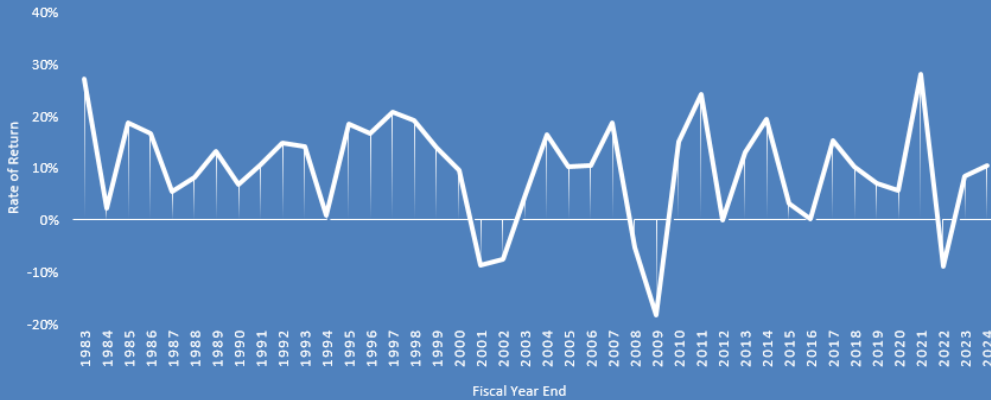
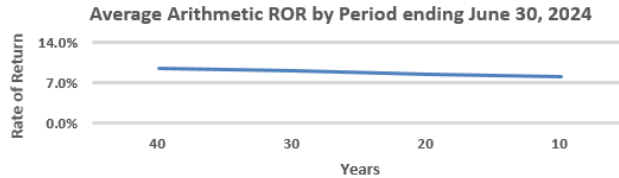


# Actuarial Interest Rate Discussion

**BERS HISTORICAL RETURNS**



Period	Geo Avg	Arth Avg
40	9.1%	9.5%
30	8.5%	9.0%
20	7.8%	8.4%
10	7.6%	8.0%



Source: Derived from Reports issued by the Office of the Comptroller of the City of New York.  
Note: Net Returns Shown Starting in 2015, Gross Returns Shown Prior to 2015

**NASRA SURVEY OF INVESTMENT RETURN ASSUMPTIONS**

**MEDIAN: 7.0%, MEAN: 6.9%**

JULY 2024



**Long-Term Expected Rates of Return for GASB 67/68\***

Issued by the Systems' Investment Consultants

FY 2024	NYCERS	TRS	BERS	POLICE	FIRE
Expected Real Return	6.40%	5.33%	5.19%	5.42%	5.53%
CPI Assumption	2.35%	2.50%	2.40%	2.40%	2.62%
Total	8.75%	7.83%	7.59%	7.82%	8.15%
FY 2023	NYCERS	TRS	BERS	POLICE	FIRE
Expected Real Return	6.19%	5.24%	5.65%	5.59%	5.34%
CPI Assumption	2.36%	2.40%	2.40%	2.40%	2.54%
Total	8.55%	7.64%	8.05%	7.99%	7.88%

\*Expected 30-Year Arithmetic Returns

*“Regarding economic assumptions ... we believe the current assumptions are reasonable. The assumptions reviewed include the inflation assumption, investment return assumption, cost-of-living assumption and general wage inflation assumption component of the amortization method for the initial unfunded liability.”*

- From Milliman Independent Actuary Statement to the Comptroller dated November 29, 2023