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Executive Summary



Executive Summary

Overview

RVK reviewed the Fiscal Year 2023 actuarial reports for each underlying plan within the Oklahoma State Pension Commission. This presentation summarizes several key plan metrics from FY 2023 as well as historical trends over the prior 20 years. The metrics include in the report are: funded status levels, asset balance changes, liabilities, and contributions. RVK also incorporated data obtained from RVK's semi-annual Public Fund Survey as well as Public Plans Data, which is an organization that collects data on more than 5,000 US public pension plans.

The information presented in this report is based on Actuarial Valuation reports for the Fiscal Year ending on June 30, 2023. The actuaries for each Plan provided all plan-specific data used in this presentation. RVK is not an actuarial firm and does not provide the actuarial services that generated the plan-specific data. This being the case, the information contained herein does not constitute a statement of actuarial opinion and may not be used in place of valuation results and recommendations provided by the plan actuary.

Funded Status Highlights

- **1. Change in Funded Status** For the fiscal year ending June 30, 2023, The funded status of the plans increased by 0.4% based on the actuarial value of assets. Based on the market value of assets, the funded status of the plans increased by 2.2%:
 - Actuarial Value of Assets Increase An increase of approximately \$1.4 billion (~3.5%) in the actuarial value of assets was the primary driver of improved funded status of the plans. This is a result of smoothing of gains from previous fiscal years to reduce the volatility of unfunded liabilities.
 - Market Value of Assets Increase Market results over the FY 2023 rebounded compared to the second half of FY 2022, with both equity and fixed income assets experiencing improved returns. The market value of assets increased by approximately \$2.2 billion (~5.8%).
 - **Liability Increase** Liabilities increased by approximately \$1.4 billion (~3.0%) over the last year partially offsetting the increase in the actuarial value of assets.
- **2. Positive Impact of Excess Contributions** In FY 2023, pension plan contributions exceeded the actuarially required contributions, contributing to a portion of market value gains.



Executive Summary (continued)

Contribution Highlights

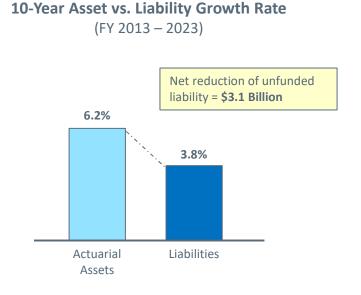
- 1. Annual Contribution Increase Total contributions for the fiscal year were approximately \$2.17 Billion, which was a 5.8% increase relative to the prior fiscal year. Contributions from the State (\$976 M) and employers (\$559 M) were the primary drivers of contribution increase.
- 2. Actual Contributions Exceeded Required Contributions For the past Fiscal Year, the actual contribution exceeded the actuarially required contribution. Since 2012, total plan contributions have been higher than the actuarial requirement.

Key Metrics for Oklahoma Pension Plans

Total Contributions FY 2023

RVK Public Combined Oklahoma Average* Pension Plans



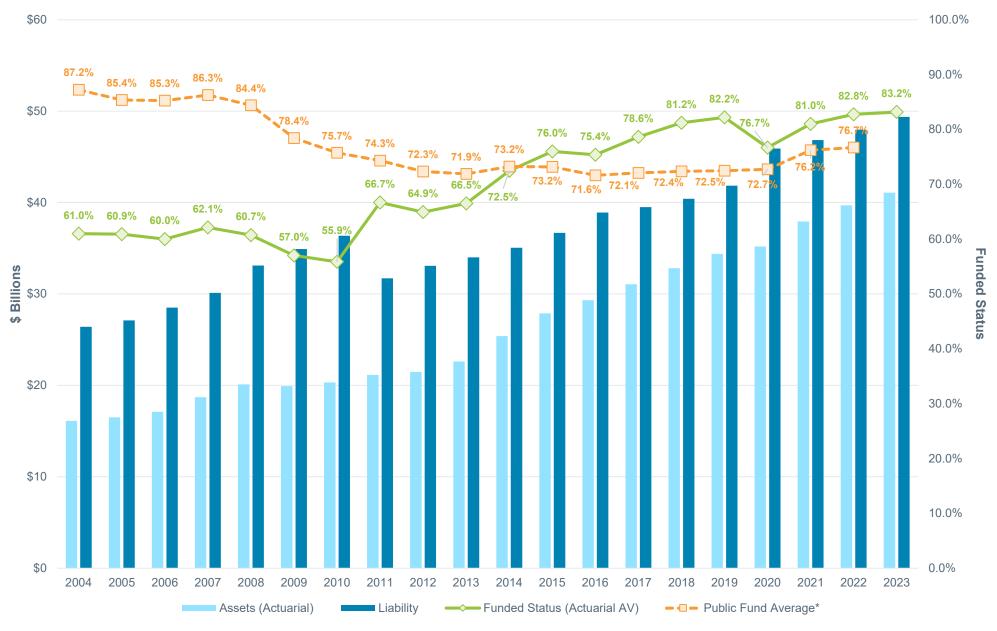






OKSPC Funded Status

Aggregate Funded Status (Actuarial Values)



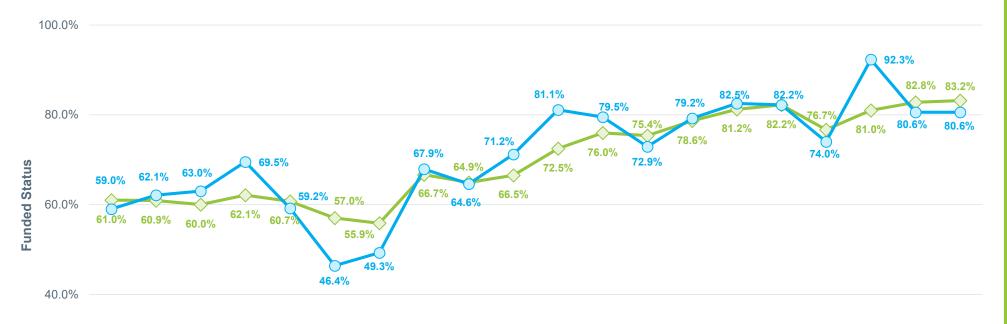
Data as of June 30, 2023.

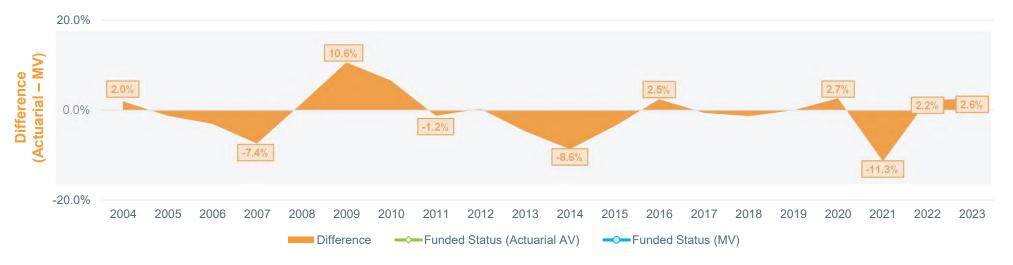


^{*}Source: Public Plans Data (2023). 2023 Public Fund data is currently unavailable.

OKSPC Funded Status

Aggregate Funded Status (Actuarial Assets vs Market Values)







OKSPC Funded Status

Individual Plan Funded Status Summary

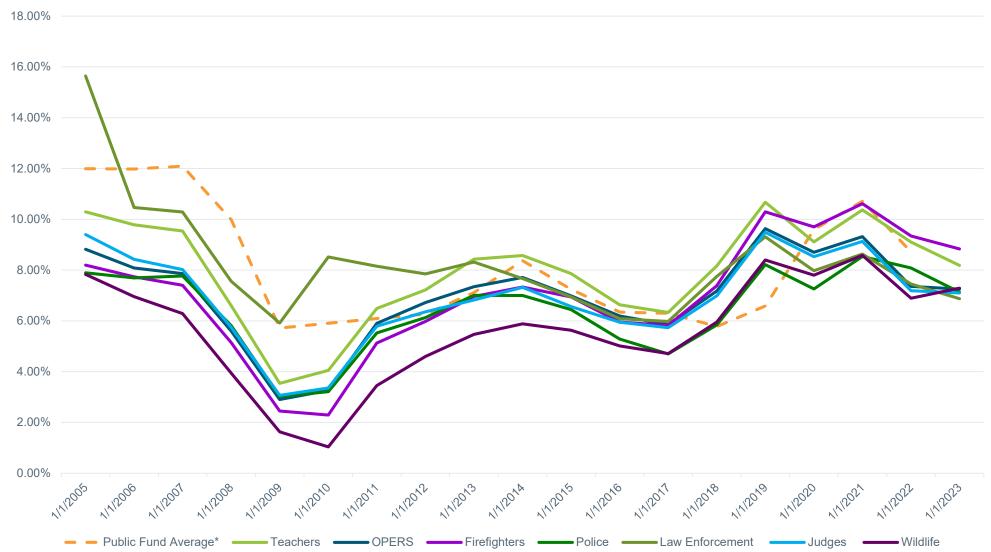
Plan	Actuarial Value of Assets (\$M)	Actuarial Accrued Liability (\$M)	Market Value of Assets (\$M)	Funded Status (per Actuarial Assets)	Funded Status (per MV Assets)	Change YoY (Actuarial)	Change YoY (MV)
Teachers	\$21,405	\$28,510	\$20,854	75.08%	73.15%	1.54%	2.49%
Public Employees	\$11,557	\$11,482	\$11,152	100.66%	97.13%	-0.88%	3.84%
Firefighters	\$3,222	\$4,427	\$3,137	72.78%	70.85%	-0.25%	1.36%
Police	\$3,175	\$2,993	\$3,023	106.08%	101.02%	0.67%	-1.72%
Law Enforcement	\$1,179	\$1,440	\$1,102	81.84%	76.52%	-9.70%	-7.45%
Judges	\$396	\$381	\$381	104.12%	100.08%	-6.74%	-1.57%
Wildlife	\$132	\$143	\$129	92.33%	90.40%	0.18%	5.48%



OKSPC Rates of Return

Individual Plan Rates of Return

Rolling 10-Year Return



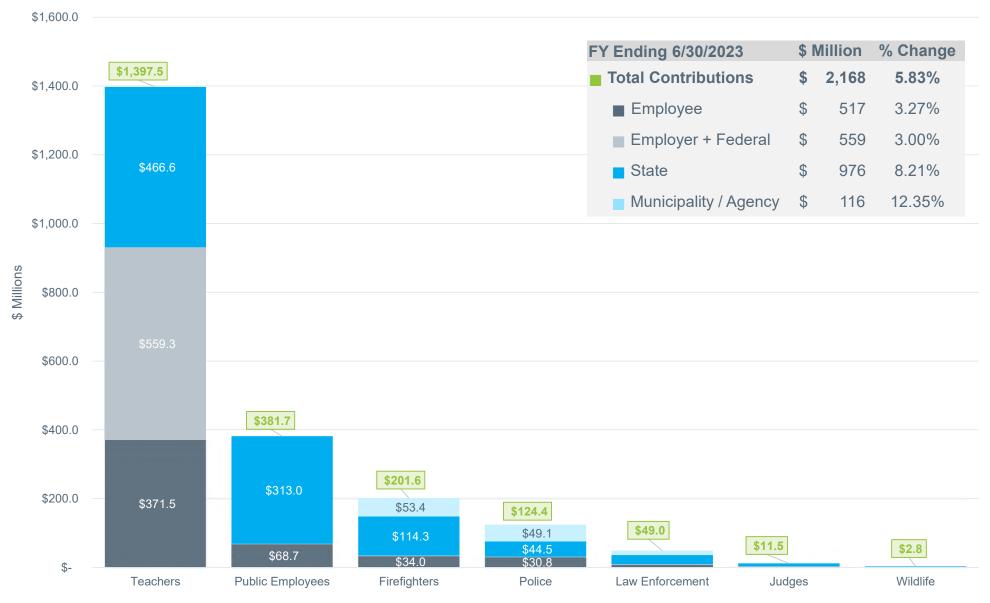
Data as of June 30, 2023.



^{*}Source: Public Plans Data (2023). 2023 data is currently unavailable.

OKSPC Contributions

Individual Plan 2023 Contributions



Teachers "Employer + Federal" contribution includes grant matching funds.

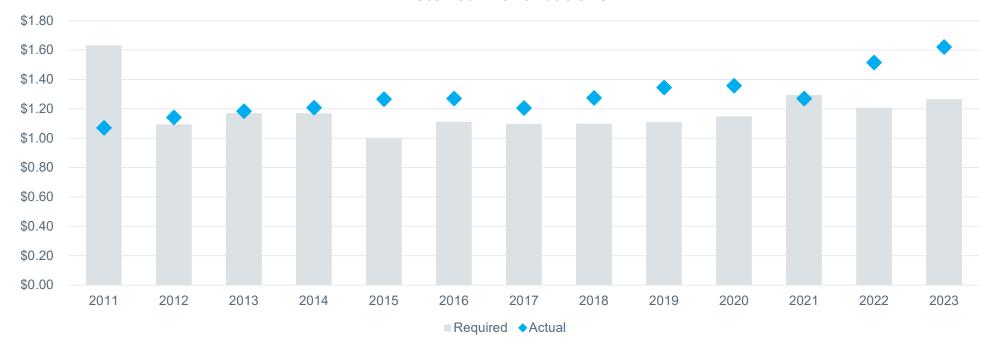


OKSPC Historical Contributions

Historical State and Employer Contributions

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Required	\$1.63	\$1.09	\$1.17	\$1.17	\$1.00	\$1.11	\$1.10	\$1.10	\$1.11	\$1.15	\$1.29	\$1.21	\$1.27
Actual	\$1.07	\$1.14	\$1.18	\$1.21	\$1.27	\$1.27	\$1.21	\$1.27	\$1.35	\$1.36	\$1.27	\$1.52	\$1.62
% Actual vs Required	65.5%	104.3%	101.1%	103.3%	126.8%	114.2%	109.8%	116.0%	121.1%	118.3%	98.2%	125.47%	128.02%

Historical Contributions





OKSPC Actuarially Determined Contribution Rates

	Teachers	Public Employees	Firefighters	Police	Law Enforcement	Judges	Wildlife
Total Normal Cost	10.4%	11.1%	21.8%	20.4%	23.6%	27.5%	13.4%
Expenses	0.1%	0.6%	1.1%	0.7%	1.6%	0.8%	0.0%
*Total ADC	10.5%	11.7%	22.9%	21.1%	25.2%	28.3%	13.4%
Employee Contribution	7.0%	4.3%	9.0%	8.0%	8.0%	8.0%	5.0%
*Total Employer ADC	3.5%	7.4%	13.9%	13.1%	17.2%	20.3%	8.4%
Employer Contribution	9.3%	16.5%	14.1%	13.0%	11.2%	22.0%	22.6%
Total State ADC	8.4%	16.5%	32.2%	0.0%	26.5%	22.0%	22.6%



GASB 67: Funding Position and Contributions

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	Net Position	Total Pension Liability (\$M)	Unfunded Accrued Liability (\$M)	Funded Status	Discount Rate
Teachers	\$20,384	\$28,090	\$7,706	72.57%	7.00%
Public Employees	\$10,716	\$11,173	\$458	95.91%	6.50%
Firefighters	\$3,137	\$4,427	\$1,290	70.85%	7.50%
Police	\$3,023	\$2,993	(\$31)	101.02%	7.50%
Law Enforcement	\$1,099	\$1,429	\$330	76.91%	7.50%
Judges	\$377	\$378	\$1	99.75%	6.50%
Wildlife	\$129	\$143	\$14	90.40%	7.00%
Total	\$38,864	\$48,633	\$9,768	79.91%	

Contributions:

	ADEC	Actual Contributions	Contribution Deficiency/Excess	Covered Payroll	ADEC % Payroll	Actual % Payroll
Teachers	\$945	\$1,024	\$79	\$5,336	17.70%	19.19%
Public Employees	\$97	\$296	\$199	\$1,527	6.38%	19.40%
Firefighters	\$152	\$157	\$6	\$344	44.06%	45.74%
Police	\$35	\$94	\$59	\$378	9.27%	24.77%
Law Enforcement	\$36	\$39	\$3	\$114	31.65%	34.24%
Judges	(\$1)	\$8	\$9	\$36	-2.39%	22.67%
Wildlife	\$2	\$2	(\$0)	\$11	22.19%	21.28%

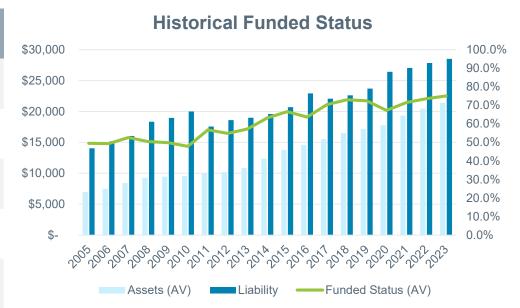


Individual Plan Highlights



Teachers

	2023	2022	Change
Assets (AV)	\$21,405 M	\$20,469 M	+ \$936 M
Liability	\$28,510 M	\$27,835 M	+ \$675 M
Funded Status (AV)	75.1%	73.5%	+ 1.5%
Assets (MV)	\$20,854 M	\$19,669 M	+ \$1,185 M
Funded Status (MV)	73.1%	70.7%	+ 2.5%



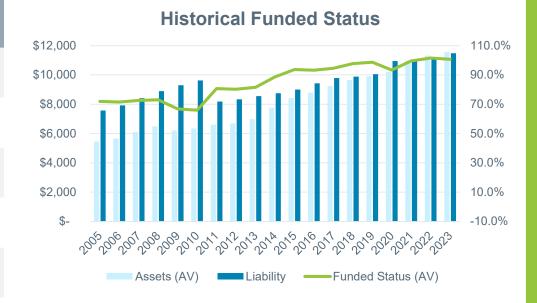
Rate of Return (Annual) 40.0% 20.0% 10.0% -10.0% -20.0% Assumed Actuarial Actual

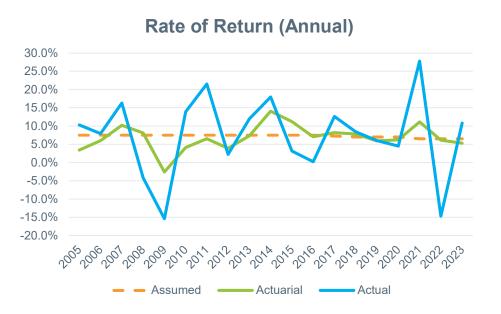


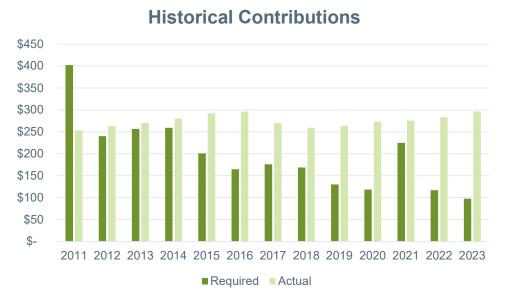


Public Employees

	2023	2022	Change
Assets (AV)	\$11,557 M	\$11,312 M	+ \$246 M
Liability	\$11,482 M	\$11,140 M	+ \$342 M
Funded Status (AV)	100.7%	101.5%	- 0.9%
Assets (MV)	\$11,152 M	\$10,393 M	+ \$759 M
Funded Status (MV)	97.1%	93.3%	+ 3.8%



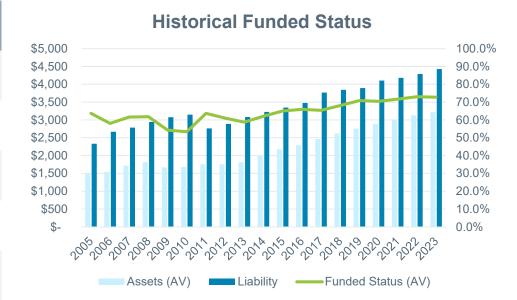




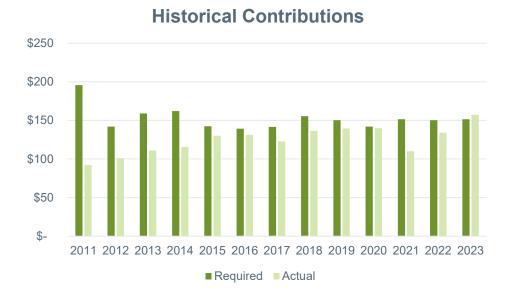


Firefighters

	2023	2022	Change
Assets (AV)	\$3,222 M	\$3,130 M	+ \$92 M
Liability	\$4,427 M	\$4,286 M	+ \$141 M
Funded Status (AV)	72.8%	73.0%	- 0.3%
Assets (MV)	\$3,137 M	\$2,978 M	+ \$159 M
Funded Status (MV)	70.9%	69.5%	+ 1.4%



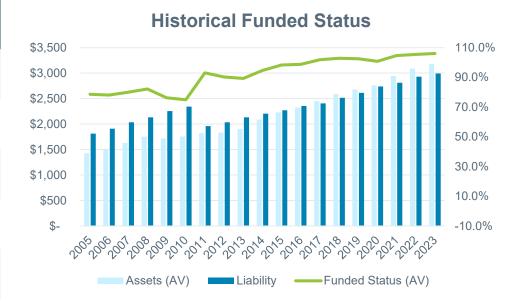
Rate of Return (Annual) 40.0% 30.0% 20.0% 10.0% -10.0% -20.0% -30.0% -Assumed Actuarial Actual

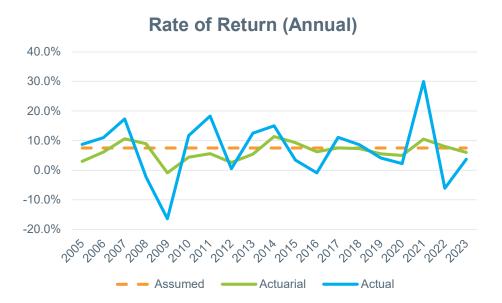


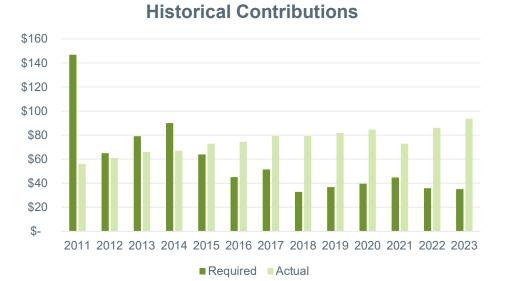


Police

	2023	2022	Change
Assets (AV)	\$3,175 M	\$3,087 M	+ \$87 M
Liability	\$2,993 M	\$2,929 M	+ \$64 M
Funded Status (AV)	106.1%	105.4%	+ 0.7%
Assets (MV)	\$3,023 M	\$3,009 M	+ \$14 M
Funded Status (MV)	101.0%	102.7%	- 1.7%



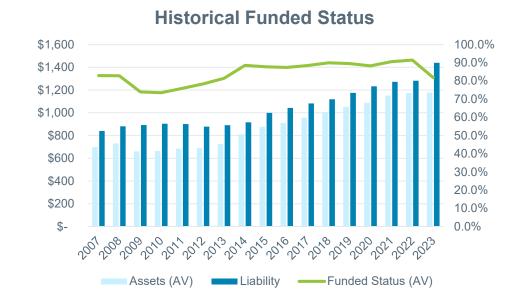






Law Enforcement

	2023	2022	Change
Assets (AV)	\$1,179 M	\$1,174 M	+ \$5 M
Liability	\$1,440 M	\$1,282 M	+ \$158 M
Funded Status (AV)	81.8%	91.5%	- 9.7%
Assets (MV)	\$1,102 M	\$1,077 M	+ \$25 M
Funded Status (MV)	76.5%	84.0%	- 7.4%



35.0% 30.0% 25.0% 20.0% 15.0% 10.0% 5.0% 0.0% -5.0% -10.0%

Assumed

-20.0%

Rate of Return (Annual)

- Actuarial

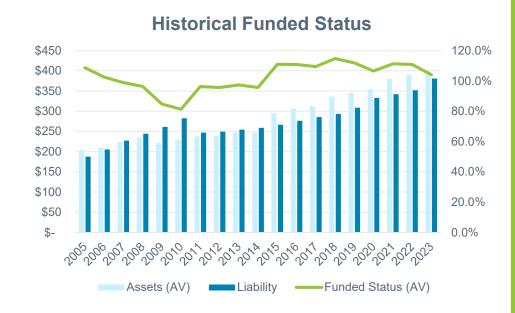
Actual





Judges

	2023	2022	Change
Assets (AV)	\$396 M	\$390 M	+ \$6 M
Liability	\$381 M	\$352 M	+ \$29 M
Funded Status (AV)	104.1%	110.9%	- 6.8%
Assets (MV)	\$381 M	\$358 M	+ \$23 M
Funded Status (MV)	100.1%	101.6%	- 1.6%



Rate of Return (Annual)



Historical Contributions





Appendix



RVK Public Funds Survey

RVK conducts a semi-annual survey of public pension plans, aggregating various portfolio and actuarial factors. Below is the list of participants from the latest edition:

Pennsylvania State Employees' Retirement System

Montana Teachers' Retirement System

State of New Jersey Pension Fund

Merced County Employees' Retirement Association

Alameda County Employees' Retirement Association

Nevada Public Employees' Retirement System

Fire and Police Pension Association of Colorado

Montana Public Employees' Retirement System

New York State Common Retirement Fund

Teachers' Retirement System of the State of Illinois

State Teachers Retirement System of Ohio

California State Teachers' Retirement System

New Mexico State Investment Council

Iowa Public Employees' Retirement System

Kansas Public Employees' Retirement System

Employees Retirement System of Texas

Los Angeles Fire and Police Pension System

Mendocino County Employees' Retirement Association

Ventura County Employees' Retirement Association

Wyoming Retirement System

Public School and Education ERS of Missouri

Sonoma County Employees' Retirement Association

Marin County Employees' Retirement Association

Orange County Employees' Retirement System

Police Retirement System of Kansas City, Missouri San Mateo County Employees' Retirement Association

Fresno County Employees' Retirement Association

City of Austin Employees' Retirement System

West Virginia Investment Management Board

City of Fresno Retirement Systems

The Navajo Nation Permanent Fund

Santa Barbara County Employees' Retirement System

San Bernardino County Employees' Retirement Association

The Navajo Nation Retirement Plan

City of Milwaukee Employes' Retirement System

Texas Permanent School Fund

New Mexico Land Grant Permanent Fund

Contra Costa County Employees' Retirement Association

Kern County Employees' Retirement Association

Los Angeles City Employees' Retirement System

San Diego City Employees' Retirement System

Public Employees Retirement Association of New Mexico

Kansas City Employees' Retirement System

San Diego County Employees Retirement Association

State of Michigan Retirement Systems

Civilian Employees' Retirement System of the Police Department of Kansas City, Missouri

Arlington County Employees' Retirement System

Ohio Public Employees' Retirement System

Virginia Retirement System

Gila River Indian Community Retirement Plan

Los Angeles Water & Power Employees Retirement Plan

Chicago Teachers' Pension Fund

Commissioners of the Land Office, State of Oklahoma

North Carolina Retirement System

South Dakota Retirement System

North Dakota Board of University and School Lands

Idaho Endowment Fund Investment Board

Anchorage Police & Fire Retirement System

San Diego Transit Corporation Employee Retirement

Municipality of Anchorage Trust Fund

Municipality of Anchorage Pre-Funding Program

City of Plano Retirement Security Plan

City of Plano Other Post-Employment Benefits Trust

Oklahoma Fire Fighters Pension & Retirement System

Oklahoma Public Employees Retirement System

Oklahoma Teachers Retirement System

Oklahoma Law Enforcement Pension & Retirement System

Oklahoma Police Pension and Retirement System

Oklahoma Wildlife Conservation Retirement System

Oklahoma Uniform Retirement System for Justices and Judges

City of Jacksonville Retirement System

City of Fresno Fire & Police Retirement System

City of Jacksonville Police and Fire Retirement Fund

Vermont Pension Investment Committee

