



# **Arkansas Public Employees Retirement System Annual Comprehensive Financial Report**

for Fiscal Year 2022



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# **System Overview**

for the fiscal years ended June 30, 2022 (FY22) and June 30, 2021 (FY21)

	FY22	FY21
The Fund		1
Valuation Assets (in Millions)	\$10,220	\$9,893
Market Value Funded Ratio	79%	94%
Funding Value Funded Ratio	84%	84%
Rate of Return	(10.54%)	31.49%
Benefits Paid (in Millions)	\$635.1	\$608.2

# **Our Members**

# **Active**

Total Active Members	42,771	42,667
Average Age	44.6	44.7
Average Years of Service	8.8	9.0
Average Salary	\$45,020	\$41,759
Retired		
Total Retired Members	41,390	39,805
Average Monthly Pension	\$1,351	39,805 \$ 1,334
Inactive		I
Total Inactive Members	15,066	14,802

# **Covered Employers**

Total Covered Employers	623	631
Contributions (in Millions)	\$320.8	\$306.0



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May 2, 2022

Board of Trustees Arkansas Public Employees Retirement System Little Rock, AR 72201

To the members of the Arkansas Public Employees Retirement System (APERS):

We are pleased to present to you the *Arkansas Public Employees Retirement System Annual Financial Report for Fiscal Year* 2022 (2022 Annual Report).

The compilation of this report reflects the combined efforts of APERS' management under the leadership of the Board of Trustees of the Arkansas Public Employees Retirement System (the Board). To the best of our knowledge, the enclosed data is accurate in all material respects and is reported in a manner designed to present fairly the financial status of the system and changes therein. The report is intended to provide extensive and reliable information for making management decisions, determining compliance with legal provisions, and determining responsible stewardship for the assets contributed by the system's members and their employers.

# **Plan Basics**

APERS was established for state employees by legislation enacted in 1957 and subsequently expanded to include the employees of counties, municipalities, schools, and other political subdivisions. The mission of the system is to provide a secure benefit in retirement to our members. All services provided by management are performed to meet this objective. The summary of plan provisions is presented in the Actuarial Section and a comprehensive list of all participating employers is provided in the Statistical Section.

### **Financial Information**

The 2022 Annual Report has been prepared to conform to the accounting principles generally accepted in the United States.

The executive management of APERS is responsible for establishing and maintaining adequate internal control over financial reporting. The system's internal control over financial reporting is designed to provide reasonable assurance that transactions are executed in accordance with management's general or specific authorization and are recorded as necessary to maintain accountability for assets and to permit the preparation of financial statements in accordance with generally accepted accounting principles. APERS has written policies and procedures adopted by the Board and promulgated in accordance with the Arkansas Administrative Procedures Act.

### **Investments**

The investments of APERS are governed primarily by an investment authority known as the "prudent investor rule." The rule established a standard for all fiduciaries, which includes anyone who has investment authority with respect to a fund. The Board has established an

Investment Policy Statement that guides management in the investment of fund assets. Through the diversification of the investment portfolio, the fund seeks to reduce overall risks and increase returns. A summary of the asset allocation can be found in the Investments Section.

For fiscal year 2022, the fund recognized a -10.54% rate of return. For the last five years, the system's annualized rate of return has been 7%. Each quarter, the investment consultant provides a summary of performance compared to the established benchmarks and comparable funds. A comparable analysis of rates of return is presented in the Investments Section.

# **Actuarial Analysis**

A pension is well-funded when it has enough assets to meet the future obligations to plan participants. A greater level of funding results in a larger ratio of assets accumulated to the actuarial accrued liability. The advantage of a well-funded plan is that the participants can be assured that enough assets exist to pay all promised benefits to members.

The system's statutory funding objective is to meet long-term benefit promises through contributions that remain approximately level as a percentage of member payroll. According to the system actuary, "if the contributions to the system are level in concept and soundly executed, the system will pay all promised benefits when due—the ultimate test of financial soundness." The Board has established an Actuarial Funding Policy that targets a funding level of 100%.

The actuarial accrued liability and actuarial funding value of assets of the system as of June 30, 2022, amounted to \$12.23 billion and \$10.22 billion respectively. On a funding value of assets basis, the funded status of the system remained at 84% in fiscal year 2022, the same percentage as in fiscal year 2021. A detailed discussion of funding and actuarial measures is provided in the Actuarial Section of this report.

#### **Professional Services**

The Board retains independent consultants to perform professional services that are essential to the system's long-term strength and stability. Actuarial services are provided by Gabriel, Roeder, Smith & Company (GRS), investment consulting is provided by Callan, and the annual financial audit is conducted by Arkansas Legislative Audit in accordance with A.C.A. § 24-2-702.

# **Awards and Acknowledgments**

APERS was awarded the Public Pension Standards Award for Funding and Administration for the 16th year in a row by the Public Pension Coordinating Council, a confederation of the National Association of State Retirement Administrators, The National Conference on Public Employee Retirement Systems, and the National Council on Teacher Retirement. This award is in recognition of meeting professional standards for plan funding and administration as set forth in the Public Pension Standards.

# Message from the Chair and Executive Director

Throughout fiscal year 2022, the Board worked diligently to fulfill our fiduciary responsibility to the system by adopting or proposing policies to maintain and to strengthen it. The Board supported several important legislative changes to the system that were enacted during the 2021 session.

Several of these changes took effect July 1, 2022. The contribution rate for contributory members was raised from 5.0% to 5.25% for fiscal year 2023. This rate will continue to be adjusted by 0.25% each July 1 until it reaches 7.0%. The legislature adopted other significant proposals that altered the way final average compensation (FAC) and cost-of-living adjustments (COLA) will be calculated for members first hired on or after July 1, 2022. These adjustments will help ensure that our system continues the path toward its long-term financial objective of a fully funded system while maintaining a great retirement benefit for our members.

The 93rd General Assembly expanded our Board to 13 members with changes made to how some members are selected. The maximum length for participation in our Deferred Retirement Option Plan (DROP) has been increased from seven to 10 years.

Each trustee understands the importance of maintaining a strong retirement system to fulfill the promises made to our members. We continue working toward that goal at each board meeting and throughout the year. The entire administrative staff of APERS deliver high-quality, professional service to each APERS member and stakeholder.

We would like to express our sincere thanks to the entire APERS Board of Trustees for their judicious leadership and the high expectations they set for the system, as well as the full staff of APERS for their hard work and dedication throughout the year. Our team works diligently each day to provide professional service to our members and efficiently operate each division of the agency.

Sincerely:

Candice Franks, Chair APERS Board of Trustees

Parin Finedo

Amy/Fecher | Executive Director

# **Board of Trustees**

### Candace Franks, Chair

State Employee Representative Expiration of Term, March 9, 2025

# Larry Walther, Vice Chair

Secretary of the Department of Finance and Administration Ex-Officio Member

# David Hudson

County Employee Representative Expiration of Term, March 9, 2021

# Joe Hurst

Municipal Employee Representative Expiration of Term, March 9, 2022

#### **Dale Douthit**

State Employee Representative Expiration of Term, March 9, 2023

# Gary Carnahan

Municipal Employee Representative Expiration of Term, March 9, 2024

# Daryl Bassett

State Employee Representative Expiration of Term, March 9, 2026

#### Richard Wilson

Retired Trustee Expiration of Term, July 30, 2027

#### Russell White

Retired Law Enforcement Trustee Expiration of Term, July 30,2027

# Gary Wallace

Retired Law Enforcement Trustee Expiration of Term, July 30, 2027

# **Kaye Donham**

Retired Trustee Expiration of Term, July 30, 2027

# Dennis Milligan

Treasurer of State Ex-Officio Member

#### Andrea Lea

Auditor of State Ex-Officio Member

# **Administration**

# Introduction

APERS' primary purposes are to ensure a secure retirement benefit for current and future members of the retirement system, to guide the fund through sound investment practices, and to provide education on retirement to our membership.

APERS' administration works to accomplish this through

- paying monthly benefits to our retirees and beneficiaries,
- adjusting the plan and management of the fund through board and/or legislative actions as needed.
- managing the system's funds in accordance with the prudent investor rule as outlined in the Investment Policy adopted by the APERS board, and
- offering our members general retirement education through webinars and individual retirement counseling both online and in person.

# **Administrative Staff**

# **Amy Fecher**

**Executive Director** 

#### **Allison Woods**

Deputy Director of Benefits

#### **Carlos Borromeo**

Deputy Director of Investments and Finance

# Jason Willett

Chief Fiscal Officer

#### Laura Gilson

General Counsel

# **Phillip Norton**

Director of Information Technology

# **Jennifer Taylor**

Director of Benefits Administration

# **Patty Shipp**

Assurance Officer

#### Jon Aucoin

Communications Manager

# **Jacobia Bates**

**Education Services Manager** 

# Cheryl Wilburn

Benefits Operations Manager

#### **Tammy Shadwick**

Human Resources Manager

# **Shelly George**

**Employer Reporting Manager** 

# **Professional Service Providers**

**Custodian Bank** 

The Bank of New York Mellon

Pittsburgh, PA 15258

Actuary

Gabriel, Roeder, Smith & Co.

Southfield, MI 48076

**Investment Consultant** 

Callan Associates, Inc.

Chicago, IL 60602

**Investment Managers** 

**Acadian Asset Management** 

Boston, MA 02110

**AQR Capital Management** 

Greenwich, CT 06830

**Artisan Partners** 

Milwaukee, WI 53202

Baillie Gifford Overseas Ltd.

Edinburgh, Scotland

Blackstone Alternative Asset Management, LP

New York, NY 10154

CastleArk Management, LLC

Chicago, IL 60606

DoubleLine Capital

Los Angeles, CA 90071

Franklin Templeton Institutional

Coral Gables, FL

**Harrison Street Real Estate Partners** 

Chicago, IL 60606

Heitman America Real Estate

Chicago, IL 60606

**Horrell Capital Management** 

Little Rock, AR 72211

**INTECH** 

West Palm Beach, FL 33401

**International Farmland Corporation** 

Kinston, NC 28504

**Invesco Real Estate** 

Dallas, TX 75240

LaSalle Investment Management

San Francisco, CA 94111

**Lazard Asset Management** 

New York, NY 10020

**LSV Asset Management** 

Chicago, IL

**MacKay Shields** 

New York, NY 10105

Mellon Capital

Pittsburgh, PA 15258

**Newton Capital Management** 

New York, NY 10166-0005

PGIM U.S. Agriculture

San Francisco, CA 94111

Pinnacle Forest Investments, LLC

Little Rock, AR 72211

PGIM. Inc.

Newark, NJ 07102

SSI Investment Management

Beverly Hills, CA 90210

Starwood Management LLC

Los Angeles, CA 90025

**Stephens Investment Management Group** 

Houston, TX 77046

**TA Associates Realty** 

Boston, MA 02109

**Wellington Management Company** 

Boston, MA 02210



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# **Management's Discussion and Analysis**

This discussion and analysis of the Arkansas Public Employees Retirement System (APERS or "the system") provides an overview of the system's financial activities for the fiscal year ended June 30, 2022 (fiscal year 2022). It is intended to be used in conjunction with the executive letter and APERS' financial statements and notes, which begin on page 17 of this report.

# **Using This Financial Report**

This annual comprehensive financial report reflects the activities of APERS as reported in the Statement of Fiduciary Net Position (page 17) and the Statement of Changes in Fiduciary Net Position (page 18). These statements are presented on an accrual basis and reflect all trust fund activities as incurred. The Notes to Financial Statements are an integral part of the financial statements and include additional information essential to understanding the basic financial statements. The Required Supplementary Information following the Notes to the Financial Statements provide historical information and additional details considered useful in evaluating the condition of the plan. Investment data in the Financial section is presented at fair value. See the Actuarial section of this report for a detailed discussion of the actuarial value of assets and liabilities and the funded ratio.

# **Financial Highlights**

APERS' net position restricted for pension benefits decreased by \$ 1.5 billion during FY2022. On June 30, 2022, total plan assets were \$10.3 billion. These assets along with deferred outflows of resources of \$989,044, exceeded total liabilities of \$616.6 million and deferred inflows of resources of \$549,924, resulting in a net position restricted for pension benefits of \$9.7 billion.

- Total additions for the system decreased \$3.9 billion in FY2022. While employer and employee contributions increased \$20.4 million in FY2022, the primary reason for this large decrease in FY2022 additions was the significant decrease in net investment income of \$3.9 billion. APERS had a negative investment return of -10.5% in FY2022 after having an investment return of 31.5% in FY2022.
- Benefit payments increased \$26.9 million in FY2022 due both to an increase in the number

- of retirees being paid monthly benefits and to the 3% increase in the annual cost of living adjustment that happens every July 1.
- The other primary expenditures of the system consisting of refunds of contributions and administrative expenses increased slightly in FY2022. Refunds tend to fluctuate from year to year. Administrative expenses have been controlled well as management has more efficiently utilized existing staff to be able to service an increasing number of retirees and members.

# The Statement of Fiduciary Net Position

The Statement of Fiduciary Net Position (page 17) reports the pension trust fund's assets, liabilities, and resulting net position at the end of the fiscal year such that

### assets - liabilities = net position.

It is a snapshot of the financial position of the pension trust fund at that specific time.

# The Statement of Changes in Fiduciary Net Position

The Statement of Changes in Fiduciary Net Position (page 18) reports the pension trust fund's financial transactions that have occurred during the fiscal year such that

# additions - deductions = net change in net position.

It supports the change that has occurred to the prior year's net position value on the Statement of Fiduciary Net Position.

#### **Notes to the Financial Statements**

The notes to the financial statements are provided as an integral component of the financial statements to help explain in narrative form some of the more complex or less obvious elements to the statements. The notes provide additional information that is essential for a comprehensive understanding of the system's financial condition and the results of its operations.

 Note 1 provides a general description of the system, including information regarding membership and employers.

# **Financial**

- Note 2 summarizes significant accounting policies, the basis of accounting, management's use of estimates, and other accounting policies.
- Note 3 describes deposits and investment risk.
- Note 4 addresses other post-employment benefits (OPEB).
- Note 5 provides information regarding legally required reserves.
- Note 6 provides capital assets activity.
- Note 7 describes the system's Deferred Retirement Option Plan.

• Note 8 provides information regarding the system's net pension liability.

The required supplementary information provides additional detail and historical information considered to be useful in evaluating the condition of the plan administered by APERS. The system provides certain required schedules and related note disclosures that collectively demonstrate the system's annual progress toward funding its actuarial accrued liability.

# **Basic Financial Statements**

Statement of Fiduciary Net Position (as of June 30, 2021 and 2022)

ASSETS	2022	2021
Cash and Cash Equivalents	\$240,196,456	\$264,755,414
Receivables	76,234,747	89,583,739
Investments, At Fair Value		
Government Securities	340,010,080	275,825,062
Corporate Securities	4,063,195,267	5,150,979,094
International Securities	2,443,880,730	3,148,501,532
Core Plus Bond Fund	619,265,497	575,732,584
Real Estate	1,425,009,448	1,168,613,735
Diversified Strategies	474,539,260	500,026,543
Timberland	99,015,477	76,372,899
Commercial Loans	4,357,162	8,422,949
Total Investments at Fair Value	9,469,272,922	10,904,474,398
Securities Lending Collateral Pool	552,355,151	779,471,694
Capital Assets, Net of Accumulated Depreciation	11,520,541	12,228,106
Other Assets	372,269	415,075
TOTAL ASSETS	10,349,952,086	12,050,928,426
DEFERRED OUTFLOWS OF RESOURCES		
Other Postemployment Benefits	989,044	1,254,987
LIABILITIES		
Accounts Payable and Accrued Expenses	18,386,701	17,233,143
Investment Purchases Payable	44,053,518	68,069,109
Securities Lending Liability	554,112,356	780,903,440
TOTAL LIABILITIES	616,552,575	866,205,692
DEFERRED INFLOWS OF RESOURCES		
Other Postemployment Benefits	549,924	524,015
NET POSITION RESTRICTED FOR PENSION BENEFITS	\$9,733,838,631	\$11,185,453,706

# **Statement of Changes in Fiduciary Net Position** (for fiscal years 2021 and 2022)

ADDITIONS	2022	2021
Contributions		
Employer Contributions	\$320,196,067	\$305,974,670
Employee Contributions	81,213,355	75,044,922
Supplemental	609,078	595,977
Total Contributions	402,018,499	381,615,569
Investment Income		
Interest	68,325,015	40,879,324
Dividends	107,678,551	91,020,702
Investment Gain/Loss	(1,383,035,911)	2,537,478,084
Security Lending Income	2,417,943	3,029,655
Real Estate Income	67,467,882	35,826,072
Other		587,622
Investment Management Expenses	(55,740,820)	(42,997,775)
Net Investment Income	(1,192,887,342)	2,665,823,683
Other Additions		
Miscellaneous Additions	509,696	616,616
Transfers from Other Public Employees Retirement Systems	3,643,141	3,741,391
Miscellaneous Transfers from State Agencies	322,309	278,562
Total Other Additions	4,475,146	4,636,569
Total Additions	(786,393,696)	3,052,075,821
DEDUCTIONS		
Benefit Payments	635,176,766	608,207,117
Member Refunds	17,687,189	15,798,750
Administrative Expenses	11,794,786	11,644,847
Total Deductions	664,658,742	635,650,714
ADJUSTMENTS		
Actuarial Adjustment to DJ Unfunded Liability	(562,637)	17,908
NET INCREASE (DECREASE)	(1,451,615,075)	2,416,443,015
Net Position Restricted for Pension Benefits		
Beginning of Year	11,185,453,706	8,769,010,690
End of Year	\$9,733,838,631	\$11,185,453,706

# **Notes to the Financial Statements**

# **Note 1: Plan Description**

# **General Information**

APERS is a cost-sharing, multiple employer, defined benefit pension plan established by the authority of the Arkansas General Assembly with the passage of Act 177 of 1957. Its purpose is to provide retirement benefits for eligible employees and elected officials of state and governmental entities in Arkansas. The laws governing the operations of APERS are set forth in Arkansas Code Annotated (A.C.A.), Title 24, Chapter 4, with related laws in Chapter 2 and Chapter 7.

The general administration and responsibility for the proper operation of the system is vested in the thirteen member Board of Trustees of the Arkansas Pubic Employees Retirement System (the Board). Membership includes five state and five non-state employees, all appointed by the Governor, and three ex-officio trustees, including the Auditor of State, Treasurer of State, and the Director of the Department of Finance and Administration.

# **Membership**

APERS covers all state employees who are not covered by another authorized plan, all county employees, municipal employees whose municipalities have elected coverage under the system, college and university employees, certain non-teaching employees, and other public entities defined by law.

Membership	2022	2021
Retirees and beneficiaries receiving benefits (includes DROP participants)	41,390	40,762
Terminated plan members entitled to but not yet receiving benefits	15,066	14,802
Active plan members	42,771	42,667

# **Reporting Entities/Employers**

Employers	2022	2021
State	245	248
County	87	87
Municipal	186	184
School	30	35
District Judges	3	3
District Court	35	38
Other Non-State	37	36
Totals	623	631

# **Entities Not Reported**

The executive director and administrative staff of APERS also serve as the executive and administrative staff of two other retirement systems, the Arkansas State Police Retirement System and the Arkansas Judicial Retirement System. These systems do not constitute part of the APERS reporting entity under the provisions of GASB Statement No. 14: The Financial Reporting Entity because these three systems are legally separate, fiscally independent entities with separate boards of trustees. The nature of the relationship between these systems and APERS is merely a sharing of administrative resources and, as such, does not require inclusion of these systems in APERS' financial statements.

# **Employer Contributions**

All participating employers are required to contribute a portion of their eligible employee's salaries into the system. The Board establishes the provisions for these employer contributions based on the rates the independent actuary determines are necessary to fund the system. Because of the cost of providing enhanced service credit to certain members classified as public safety employees, and pursuant to the provisions of Act 625 of 1983 and Act 1097 of 1993, certain agencies employing individuals in public safety positions are required to remit additional contributions in amounts determined by the actuary.

Employer Contribution Rates	Fiscal Year 2022
State Division	15.32%
Wildlife Subdivision	27.32%
State Capitol Police Subdivision	15.32%
County Division	15.32%
Municipal Division	15.32%
School Division	4.00%
Other Non-State Division	15.32%

# **Employee Contributions**

The system was established as a contributory plan in which member-employees also contributed a portion of their salaries to the system. However, with the passage of Act 793 of 1977, existing members and previous members were offered the opportunity to choose to become non-contributory members. Anyone who joined the system subsequent to January 1, 1978, and had previously been a member was automatically enrolled as a non-contributory member.

Act 2084 of 2005 directed APERS to establish a new contributory plan effective July 1, 2005. It required that all covered employees first hired on or after July 1, 2005, contribute 5% of their salary into the system. Employees hired before June 30, 2005, who were in the non-contributory plan were given the option to join the new contributory plan by December 31, 2005. Non-contributory members who did not join the new contributory plan by that deadline remain non-contributory members.

Act 365 of 2021 which took effect July 1, 2022, raises the contribution rate from 5.0% to 5.25% for contributory members for fiscal year 2023. This rate will continue to increase by 0.25% each July 1 until it reaches 7%.

A member's employee contributions are refundable if the member terminates APERS-covered employment before a monthly benefit is payable. Employee contributions remaining on deposit with APERS earn interest (at the annual rate of 2%), which is included in any refund of contributions.

### System Administration

The costs of administering the system are paid out of investment earnings.

### **Benefits**

Benefit provisions are established by state law and may be amended only by the Arkansas General Assembly. Members are eligible for full benefits under the following conditions:

- at age 65 with five years of actual service,
- at any age with 28 years of actual service,
- at age 60 with 20 years of actual service if under the old contributory plan (prior to July 1, 2005), or
- at age 55 with 35 years of credited service for local elected officials.

The normal retirement benefit amount, paid on a monthly basis, is determined by the member's final average compensation and years of service. A member may retire with a reduced benefit at age 55 with at least five years of actual service or at any age with 25 years of actual service. APERS also provides for disability and survivor benefits.

# Note 2: Summary of Significant Accounting Policies

# **Basis of Accounting**

APERS' accounts and records are maintained using fund accounting principles, and its financial statements are prepared using the accrual basis of accounting. Expenses are recorded when the liability is incurred; revenues are recorded in the accounting period in which they are earned and become measurable; and investment purchases and sales are recorded as of their trade dates. Member and employer contributions are established by statute as a percentage of salaries and are recognized when due, pursuant to legal requirements. Benefits and refunds are recognized when due and payable in accordance with the terms of the plan.

### **Investments**

The system is authorized to invest in eligible investments as approved by the Board as set forth in its investment policy. System investments are reported at fair value. Short-term investments, debt securities, and equity securities are reported at fair value, as determined by the system's custodial agent, using pricing services or prices quoted by independent brokers based on the latest reported sales prices at current exchange rates for securities traded on national or international exchanges. The fair value of the pro rata share of units owned by the system in equity index and commingled trust funds is determined by the respective fund trustee based on quoted sales prices of the underlying securities.

Net investment income (or loss) includes net appreciation (or depreciation) in the fair value of investments, interest income, dividend income, securities lending income and expenses, and investment expenses, which include investment management and custodial fees and all other significant investment related costs. The system's international investment managers may enter into forward foreign exchange contracts to protect against fluctuation in exchange rates between the trade date and the settlement date of foreign investment transactions. Any gains and losses on these contracts are included in income in the period in which the exchange rates change.

Investment securities and investment securities that underlie commingled or mutual fund investments are exposed to various risks, such as interest rate and credit risks. Due to the risks associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities may occur in the near term and that those changes could materially affect the amounts reported in the Statement of Fiduciary Net Position.

# **Use of Estimates**

The preparation of the system's financial statements in conformity with accounting principles generally accepted in the U.S. requires the system administrator to make significant estimates and assumptions that affect various data in the report, including the following:

- The net position restricted for pensions at the date of the financial statements
- The net pension liability and other actuarial information presented in Note 8
- The required supplementary information as of the benefit information date
- The changes in fiduciary net position during the reporting period

Estimates may also be involved in formulating disclosures of contingent assets and liabilities at the date of the financial statements. Actual results could differ from these estimates.

# **Cash and Cash Equivalents**

Cash and cash equivalents include demand accounts, imprest accounts, cash in the state treasury, and short-term investment funds (STIF). The STIF accounts are created through daily sweeps of excess cash by the system's custodian bank into bank-sponsored commingled funds that are invested in U.S. Government and agency securities and other short-term investments. The STIF accounts had an average weighted maturity of 90 days or less and are stated at fair value.

# **Capital Assets**

Capital assets purchased and in the custody of APERS were recorded as expenditures at the time of purchase. Assets with costs exceeding \$5,000 and an estimated useful life exceeding one year are reported at historical cost, including ancillary costs (such as professional fees and costs, freight costs, preparation and setup costs, and installation costs). Depreciation is reported for capital assets based on a straight-line method with no salvage value. The estimated useful life generally assigned by APERS to capital assets held ranges from five to 20 years. A schedule of capital asset activity for the fiscal year can be found on page 37.

# **Risks and Uncertainties**

Certain data in this report – including contributions to the system and the net pension liability, as well as other actuarial information in Note 8 and the required supplementary information – have been formulated based on certain projections about interest rates, inflation rates, and employee compensation and demographics. Due to the dynamic nature of these factors, it is possible that these projections will need to be revised in the near term. Because of the uncertainties inherent in making such projections, the effect of any such changes could be material to the financial statements.

# **Note 3: Deposits and Investments**

# **Deposits**

Deposits are carried at cost and are included in "cash and cash equivalents." Cash and cash equivalents include demand accounts, cash in state treasury, short-term investment funds, and petty cash. As of June 30, 2022, these totals were \$45,393, \$5,796,268, \$234,354,595, and \$200 respectively. State Treasury Management Law governs the management of funds held in the State Treasury (cash in state treasury), and it is the responsibility of the Treasurer of State to ensure the funds are adequately insured and collateralized.

# **Custodial Credit Risk for Deposits**

Custodial credit risk for deposits is the risk that, in the event of the failure of a depository financial institution, the system will not be able to recover deposits or collateral securities. The system's policy is to place deposits only in collateralized or insured accounts. As of June 30, 2022, the system's only deposits exposed to potential custodial credit risk were those holding its foreign currency balance of \$3,174,628, which is detailed in the table "Foreign Currency Risk" on page 26. The system holds foreign currency in banks outside the United States as a result of transactions by international investment managers.

# **Investments**

Arkansas Code Annotated §§ 24-2-601 – 24-2-619 authorize the Board to have full power to invest

and reinvest monies of the system and to hold, purchase, sell, assign, transfer or dispose of any of the investments or proceeds of the investments in accordance with the prudent investor rule. Security transactions and any resulting gains or losses are accounted for on a trade basis. Net investment income includes net appreciation in the fair value of investments, interest income, dividend income, and total investment expense, which includes investment management fees, custodial fees, and all other significant investment-related costs.

Arkansas Code Annotated § 24-2-608 also states that the system shall seek to invest not less than 5% nor more than 10% of the system's portfolio in Arkansas-related investments. APERS recognizes a legal responsibility to seek to invest in the Arkansas economy while realizing that its primary, legal, and fiduciary commitment is to beneficiaries of the retirement system. As stated in A.C.A. § 24-2-608 (d), "nothing in this section shall in any way limit or impair the responsibility of a fiduciary to invest in accordance with the prudent investor rule set forth in §§ 24-2-610 – 24-2-619."

Investments are reported at fair value as determined by the custodian bank. The custodian bank's determination of fair values includes, among other things, using pricing services or quotes by major independent brokers at current exchange rates as available. The schedule on the following page reflects the fair value of investments.

# **Statement of Invested Assets**

(Assets by type at fair value in dollars as of June 30, 2022)\*

Category	Base Market Value	APERS	ASPRS
Government Securities	\$353,175,906	\$340,010,080	\$13,165,826
Corporate Securities	4,220,529,782	4,063,195,267	157,334,515
International Securities	2,538,512,359	2,443,880,730	94,631,629
Core Plus Bond Fund	643,244,615	619,265,497	23,979,117
Real Estate	1,480,188,477	1,425,009,448	55,179,029
Diversified Strategies	492,914,307	474,539,260	18,375,047
Timberland	102,849,541	99,015,477	3,834,064
Commercial Loans	4,525,879	4,357,162	168,717
	9,835,940,867	9,469,272,922	366,667,945
Securities Lending Collateral Investments, at Fair Value:			
Commercial Paper	32,298,611	31,094,571	1,204,041
Repurchase Agreements	80,386,030	77,389,367	2,996,663
Floating Rate Notes	444,700,288	428,122,573	16,577,715
Asset Backed Securities	16,358,458	15,748,641	609,817
	573,743,387	552,355,151	21,388,235
,	\$10,409,684,254	\$10,021,628,073	\$388,056,181

<sup>\*</sup>Totals may not add due to rounding.

### **Custodial Credit Risk for Investments**

Custodial credit risk for investments is the risk that, in the event of failure of the counterparty to a transaction, the system will not be able to recover the value of its investments or collateral securities that are in the possession of an outside party. Investment securities are exposed to custodial credit risk if the securities are (a) uninsured, (b) not registered in the name of the government, and (c) held by either the counterparty or the counterparty's trust department or agent but not in the system's name. Arkansas Code Annotated § 24-2-606 does address the custodianship of assets, and the investment policy states that "the custodian bank shall, by nominee agreement, hold any and all securities for the beneficial interest of the APERS fund." As of June 30, 2022, there were no investments exposed to custodial credit risk.

# **Credit Risk for Investments**

Credit risk of investments is the risk that the issuer or other counterparty will not fulfill its obligation to the holder of the investment. Credit risk exposure is dictated by each investment manager's agreement. This credit risk is measured by the credit quality of investment in debt securities as described by nationally recognized statistical rating organizations. Each portfolio is managed in accordance with investment guidelines that are specific as to permissible credit quality ranges, exposure levels within individual security quality rating tiers, and the average credit quality of the overall portfolio.

The schedule on the following page indicates the system's exposure to credit risk for investments.

# The System's Exposure to Credit Risk

Moody's Quality Ratings (in dollars as of June 30, 2022)

Moody's Rating	Aaa	Aa	A	Baa	Ва	В	Caa or below	Not Rated	Base Market Value
Government Securities	\$329,613,097	0	\$520,598	0	0	0	0	\$4,251,750	\$334,385,445
Corporate Securities	16,454,298	18,456,708	71,282,463	228,649,673	64,442,895	30,299,805	19,699,344	472,490,576	921,775,762
International Securities	2,844,523	1,723,413	22,897,566	67,903,210	22,586,513	3,150,202	1,269,223	52,694,343	175,068,992
Floating Rate Fund	0	0	0	0	0	0	0	28,305,730	28,305,730
Core Plus Bond Fund	0	0	0	0	0	0	0	643,244,615	643,244,615
Commercial Loans	0	0	0	1,225,741	0	2,956,339	343,800	0	4,525,879
Municipal Bonds	0	1,431,649	0	0	0	0	0	0	1,431,649
Co-Mingled Funds	0	0	0	0	0	0	0	5,870,639	5,870,639
High Yield Income Fund	0	0	0	0	0	0	0	48,299,115	48,299,115

\$348,911,917 \$21,611,769 \$94,700,627 \$297,778,624 \$87,029,408 \$36,406,345 \$21,312,367 \$1,255,156,769 \$2,162,907,827

All figures are APERS and ASPRS combined.

# **S&P's Quality Ratings** (in dollars as of June 30, 2022)

S&P Rating	AAA	AA	A	BBB	ВВ	ВС	CC or below	Not Rated	Base Market Value
Government Securities	0	\$329,613,097	0	0	0	0	0	\$4,772,348	\$334,385,445
Corporate Securities	6,497,721	6,709,531	63,695,264	263,914,421	66,673,148	33,135,336	18,835,345	462,314,995	921,775,762
International Securities	1,099,468	1,362,256	21,647,802	63,360,712	25,686,834	7,029,318	1,010,993	53,871,610	175,068,992
Floating Rate Fund	0	0	0	0	0	0	0	28,305,730	28,305,730
Core Plus Bond Fund	0	0	0	0	0	0	0	643,244,615	643,244,615
Commercial Loans	0	0	0	1,225,741	0	2,956,339	343,800	0	4,525,879
Municipal Bonds	0	1,431,649	0	0	0	0	0	0	1,431,649
Co-Mingled Funds	0	0	0	0	0	0	0	5,870,639	5,870,639
High Yield Income Fund	0	0	0	0	0	0	0	48,299,115	48,299,115

\$7,597,189 \$339,116,534 \$85,343,066 \$328,500,874 \$92,359,981 \$43,120,993 \$20,190,138 \$1,246,679,052 \$2,162,907,827

Securities Lending Collateral \$15,699,362 \$208,465,454 \$205,892,916 0 0 \$659,096 \$143,026,559 \$573,743,387

All figures are APERS and ASPRS combined.

# **Concentration of Credit Risk for Investments**

The concentration of credit risk is the risk of loss attributed to the magnitude of the system's investment in a single issuer (not including investments issued or guaranteed by the U.S. government or investments in mutual funds or external investment pools). The system has a formal investment policy for concentration of credit risk. None of the system's investments in any one issuer (other than those issued or guaranteed by the U.S. government) represented more than 5% of total investments.

### **Interest Rate Risk for Investments**

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of investments. Investments can be highly sensitive

to changes in interest rates due to their terms or characteristics. Interest rate risk is the greatest risk faced by an investor in the debt securities market since the price of a debt security will often move in the opposite direction of the change in interest rates.

The system's external fixed income investment managers use the measurement of effective duration to mitigate the interest rate risk of the fixed income investments. Each fixed income investment manager monitors and reports the effective duration monthly. The effective duration of the investment portfolio is required to be +/- 10% of the benchmark's duration. The benchmark for the U.S. fixed income markets is the Barclays Capital U.S. Aggregate Bond Index.

As of June 30, 2022, the system had the following debt security investments and maturities:

# **Debt Security Investments and Maturities** (in dollars as of June 30, 2022)

	Market Value	Less than 1	1 - 5	6 - 10	More than 10	Fund - No Maturities
Government Securities	\$334,385,445	\$8,999,511	\$48,417,806	\$44,451,437	\$232,516,691	0
Corporate Securities	921,775,762	69,030,300	334,582,979	210,301,782	307,860,701	0
International Securities	175,068,992	7,342,611	49,307,658	63,226,582	55,192,141	0
Floating Rate Fund	28,305,730	0	0	0	0	28,305,730
Core Plus Bond Fund	643,244,615	0	0	0	0	643,244,615
Commercial Loans	4,525,879	0	1,433,900	3,091,980	0	0
Municipal Bonds	1,431,649	0	0	0	1,431,649	0
Co-Mingled Funds	5,870,639	0	0	0	0	5,870,639
High Yield Income Fund	48,299,115	48,299,115	0	0	0	0
	2,162,907,827	133,671,537	433,742,343	321,071,781	597,001,182	677,420,984
Securities Lending Collateral	573,469,724	548,126,029	24,684,598	0	659,096	
	\$2,736,377,550	\$681,797,566	\$458,426,942	\$321,071,781	\$597,660,278	\$677,420,984

# **Foreign Currency Risk**

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment. The system's currency risk resides within the international equity investments as well as within the fixed income investments and the fixed income managers. The system's policy is to allow the external investment managers to decide what

action to take regarding their respective portfolio's foreign currency exposure using currency forward contracts. The system has a formal investment policy for foreign currency risk which limits foreign currency exposure to 10% of the investment manager's respective portfolio.

# Foreign Currency Risk (as of June 30, 2022)

Currency	Percentage	Equities	Cash	Forward Contracts	Fair Value
Australian Dollar	0.61%	\$8,759,601	\$0	\$0	\$8,759,601
Brazilian Real	0.81	11,663,439	0	0	11,663,439
British Pound Sterling	15.17	215,913,132	2,146,070	(5,481)	218,053,721
Canadian Dollar	6.67	95,846,031	60,883	0	95,906,914
Chinese Yuan Renminbi	6.88	98,910,150	0	0	98,910,150
Euro Currency	36.39	523,077,974	401	(4,997)	523,073,378
Hong Kong Dollar	2.39	33,625,253	660,471	28	34,285,752
Indian Ruphia	0.17	2,453,833	0	0	2,453,833
Israeli Shekel	1.45	20,905,463	0	0	20,905,463
Japanese Yen	10.30	147,579,498	53,661	366,121	147,999,279
Liberian Dollar	0.20	2,839,089	0	0	2,839,089
Malaysian Ringgit	0.00	0	0	0	0
Mauritian Rupee	0.14	2,062,412	0	0	2,062,412
Mexican New Peso	0.59	8,529,803	0	0	8,529,803
Norwegian Krone	0.06	825,985	0	0	825,985
New Zealand Dollar	0.39	5,580,789	0	0	5,580,789
Papua New Guinea Kina	0.00	0	0	0	0
Philippines Peso	0.00	0	0	0	0
Russian Ruble	0.00	0	0	0	0
Singapore Dollar	1.14	16,418,519	0	0	16,418,519
South African Rand	0.00	0	0	0	0
South Korean Won	3.20	46,015,522	0	0	46,015,522
Swedish Krone	2.35	33,516,128	253,143	0	33,769,272
Swiss Franc	9.58	137,733,696	0	0	137,733,696
Taiwan Dollar	1.38	19,781,503	0	0	19,781,503
Thailand Baht	0.14	1,985,100	0	0	1,985,100
	100.00%	\$1,434,022,919	\$3,174,628	\$355,672	\$1,437,553,219

# **Asset-Backed Securities**

Asset-backed securities (ABSs) are bonds or notes backed by loan paper or accounts receivable originated by banks, credit card companies, or other credit providers. The system's ability to recover the amount of principal invested in these securities depends on the performance and quality of the trust assets.

# **Mortgage-Backed Securities**

A mortgage-backed security (MBS) is a type of asset-backed security that is secured by a mortgage or collection of mortgages. MBSs depend on the underlying pool of mortgage loans to provide cash flow to make principal and interest payments on the security to its holders. The payments are usually periodic, similar to coupon payments. MBSs are subject to credit risk, prepayment risk, and extension risk.

A collateralized mortgage obligation (CMO) is an MBS that comprises classes of bonds created by prioritizing the cash flows of the underlying mortgage pool. CMOs may be collateralized by whole-loan mortgages, mortgage pass-through securities, or stripped mortgage-backed securities.

The system invests in MBSs and CMOs for diversification and to enhance fixed income returns. These instruments are reported at fair value in the Statement of Fiduciary Net Position.

# **Corporate Bonds**

Corporate bonds are a debt security issued by a corporation. The backing for the bond is usually the payment ability of the company, which is typically money to be earned from future operations.

# **Convertible Corporate Bonds**

Convertible bonds convey an option to the bondholders to be exchanged for another asset, generally a fixed number of shares of common stock at a pre-stated price.

# **Pooled Funds**

Pooled funds are funds from many individual investors that are aggregated for the purposes of investment and benefit from economies of scale. The system could be indirectly exposed to credit and market risks associated with forward currency contracts to the extent that these pooled funds hold forward currency contracts for purposes of managing exposure to fluctuations in foreign exchange rates. APERS and ASPRS have \$647,675,792 invested in

international pooled funds.

# **Securities Lending**

Arkansas Code Annotated § 24-2-602 and the Board's investment policy permit the system to participate in a securities lending program to augment investment income. The system lends its securities to brokers-dealers and other entities with a simultaneous agreement to return the collateral for the same securities in the future.

U.S. securities are loaned versus collateral valued at 102.56% of the market value of the securities plus any accrued interest for domestic loans. Non-U.S. securities are loaned versus collateral valued at 111.42% of the market value of the securities plus any accrued interest. Collateral is marked-to-market daily if price movements exceed certain minimal thresholds.

As of June 30, 2022, the cash collateral investments had an average weighted maturity of one day, whereas the weighted average loan maturity was two days. Investments with cash collateral were approximately \$573.5 million (market value).

#### **Derivative Instruments**

The system adheres to GASB Statement No. 53: Accounting and Financial Reporting for Derivative Instruments, which addresses the recognition, measurement, and disclosure of information regarding derivative instruments entered into by state and local governments.

Derivative instruments are financial contracts or agreements whose values depend on the values of one or more underlying assets, reference rates, or financial indexes. Derivative instruments include futures contracts, forward contracts, swap contracts, options contracts, and forward foreign currency exchange. APERS, through its external investment managers, can hold such instruments.

APERS does comply with *GASB No. 53* and will disclose its exposure to derivative instruments if there is exposure. APERS had no exposure to any *GASB No. 53* derivative instruments at June 30, 2022.

# **Foreign Currency Forward Contracts**

A foreign currency forward is a contractual agreement between two parties to pay or receive specific amounts of foreign currency at a future date in exchange for another currency at an agreed upon exchange rate. Forward commitments are not standardized and carry credit risk due to the possible

nonperformance by one of the counterparties. The maximum potential loss is the aggregate face value in U.S. dollars at the time the contract was opened. These transactions are entered in order to hedge risks from foreign currency rate fluctuation

and to facilitate trade settlement of foreign security transactions. Forwards carry foreign currency risk resulting from adverse fluctuations in foreign exchange rates.

# Foreign Currency Forwards (in dollars as of June 30, 2022)

	Pay	Receive	Notional Value	Market Value	Unrealized G/L
Swiss Franc	CHF	USD	\$(82,170)	\$(81,924)	\$245
Euro currency	EUR	USD	(688,319)	(687,860)	458
British Pound	GBP	USD	(2,150,568)	(2,155,967)	(5,399)
Hong Kong dollar	HKD	USD	(309,203)	(309,175)	28
Japanese Yen	JPY	USD	(7,786,268)	(7,383,779)	402,489
Swedish Krona	SEK	USD	(312,418)	(310,159)	2,259
U.S.Dollar	USD	CHF	89,733	89,368	(365)
U.S.Dollar	USD	KRW	95,349	95,262	(86)
U.S.Dollar	USD	GBP	53,569	53,413	(156)
U.S.Dollar	USD	JPY	630,328	593,960	(36,368)
U.S.Dollar	USD	EUR	1,071,393	1,065,938	(5,455)
U.S.Dollar	USD	GBP	90,661	90,734	73
			\$(9,297,913)	\$(8,940,189)	\$357,724

# **Financial Futures**

A financial future is an agreement to purchase or sell a specific amount of an asset at a specified delivery or maturity date for an agreed upon price. These derivative securities are used to improve yield, adjust duration of the portfolio, circumvent changes in interest rates, or to replicate an index. Futures contracts are standardized and traded on organized exchanges, thereby reducing credit risk.

# **Financial Futures** (in dollars as of June 30, 2022)

<b>Futures Contract</b>	Expiration	Notional Value	Fair Value	Unrealized Gain/(Loss)
U.S. 2-year Treasury Note	Sept 2022	\$21,494,418	\$21,421,594	\$(72,824)
U.S. 5-year Treasury Note	Sept 2022	16,041,215	15,939,500	(101,715)
U.S. 10-year Treasury Note	Sept 2022	45,684,188	45,753,063	68,875
U.S. 10-year Ultra Treasury Note	Sept 2022	26,868,972	27,003,500	134,528
U.S. Long Bond Treasury	Sept 2022	(5,412,875)	(5,545,000)	(132,125)
U.S. Ultra Bond Treasury	Sept 2022	20,173,119	20,682,063	508,943
		\$124,849,036	\$125,254,719	\$405,683

# **Fair Value Measurements**

APERS categorizes its fair value measurements within the fair value hierarchy by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset and give the highest priority to unadjusted quoted prices in active markets for identical assets of liabilities (Level 1 measurements) and the lower priority to unobservable inputs (Level 3 measurements).

- Level 1 Unadjusted quoted prices for identical instruments in active markets.
- Level 2 Quoted prices for similar instruments in active markets; quoted prices for identical or similar instruments in markets that are not active; and model-derived valuations in which all significant inputs are observable.
- Level 3 Valuations derived from valuation techniques in which significant inputs are unobservable.

Investments that are measured at fair value using the net asset value per share (or its equivalent) as a practical expedient are not classified in the fair value hierarchy. In instances where inputs used to measure fair value fall into different levels in the fair value hierarchy, fair value measurements in their entirety are categorized based on the lowest level input that is significant to the valuation. The system assessment of the significance of particular inputs to these fair value measurements requires judgment and considers factors specific to each asset or liability. The table(s) on the following pages shows the fair value leveling of the investments for the system.

Assets classified in Level 1 of the fair value hierarchy are valued directly from a predetermined primary external pricing vendor. Assets classified in Level 2 are subject to pricing by an alternative pricing source due to lack of information available by the primary vendor. Real estate, timberland, and partnership assets classified in Level 3, due to lack of an independent pricing source, are valued using an internal fair value as provided by the investment manager.

The categorization of investments within the hierarchy is based upon the pricing transparency of the instrument(s) and should not be perceived as the particular investment's risk.

# **Investments and Derivative Instruments Measured at Fair Value**

(in dollars as of June 30, 2022)

U.S.Domestic Equities	(III dollars as of Julie 30, 2022)	Fair Value	Level 1	Level 2	Level 3
Convertible Securities         322,356,942         45,477,691         276,379,3252         0           Prefered Securities         1,491,390,839         1,491,390,839         0         3,120,366         0           Convertible Securities         18,474,593         18,474,593         0         30,570,550         0         0           Fixed Income         138,545,058         0         138,545,058         0	Investments At Fair Value				
Preferred Securities		\$2,473,695,407	\$2,473,695,407	•	0
International Equities					
Convertible Securities				3,120,366	
Preferred Securities         18,474,593         18,474,593         0         0           Fixed Income         138,545,058         0         138,545,058         0           Domestic Fixed Income         5,651,791         0         0         0           Global Bond Fund         2,750,537         7         0         0           U.S. Government Securities         179,064,971         179,064,971         0         0         0           Futures         390,559         390,559         0         0         0         0           Corporate Bonds         722,103,615         0         722,103,615         0         722,103,615         0         0         4,357,162         0         0         4,357,162         0         0         4,357,162         0 <td></td> <td></td> <td></td> <td>•</td> <td></td>				•	
Pixed Income				30,570,550	
Domestic Fixed Income   0   0   0   0   0   0   0   0   0				•	
Global Bond Fund				138,545,058	
Floating Rate Fund					
U.S. Government Securities					
Futures 990,559 90,559 0 0 0 Corporate Bonds 722,103,615 0 722,103,615 0 0 4,357,162 Loans 4357,162 0 0 0 4,357,162 Total Investments 5414 1 441,396,389 1,171,218,840 4,357,162  Repo 77,389,367 0 77,389,367 0 77,389,367 0 77,389,367 0 75,389,389,389,389,389,389,389,389,389,389					
Corporate Bonds					
Loans				•	
Total Investments					
Repo					
Repo			4,241,396,389	1,171,218,840	4,357,162
Commercial Paper			_		
Asset Backed Securities					
Floating Rate Securities					
Total Investments Measured at Fair Value					
Total Investments Measured at Fair Value   \$5,969,327,542 \$4,241,396,389 \$1,723,573,991 \$4,357,162					
Investments   Measured at the Net Asset Value (NAV)	Total Securities Lending Collateral	552,355,151	0	552,355,151	0
High Yield Core Fund 941,430 Defensive Bond Fund 45,557,171 Domestic Equity Index Funds 573,700,430 Core Plus Bond Fund 619,265,485 Timberland 81,134,789 Global Equity Pooled Funds MCM REIT Index 110,739,019 MCM ACWI ex-US Index 517,104,141 Acadian 162,651,189 Franklin Templeton 134,129,291 Core Real Estate Invesco Core 615,433,133 Heitman Core 392,094,269 Value AddReal Estate Heitman Value Add 66,766,633 TA Fund X 27,613 TA Fund XI 53,738,422 TA Fund XII 109,878,767 LaSalle Fund Fund VII 7,841,732 LaSalle Fund Fund VII 39,043,463 Harrison Street VIII 29,446,369 Starwood SOF XII 15,868,893 Agriculture/Farmland PGIM Agricutture 2,011,793 Diversified Strategies AQR Global Risk Premium 140,273,174 Newton Global Real Return 133,483,629 Blackstone 20,0782,447	Total Investments Measured at Fair Value	\$5,969,327,542	\$4,241,396,389	\$1,723,573,991	\$4,357,162
High Yield Core Fund 941,430 Defensive Bond Fund 45,557,171 Domestic Equity Index Funds 573,700,430 Core Plus Bond Fund 619,265,485 Timberland 81,134,789 Global Equity Pooled Funds MCM REIT Index 110,739,019 MCM ACWI ex-US Index 517,104,141 Acadian 162,651,189 Franklin Templeton 134,129,291 Core Real Estate Invesco Core 615,433,133 Heitman Core 392,094,269 Value AddReal Estate Heitman Value Add 66,766,633 TA Fund X 27,613 TA Fund XI 53,738,422 TA Fund XII 109,878,767 LaSalle Fund Fund VII 7,841,732 LaSalle Fund Fund VII 39,043,463 Harrison Street VIII 29,446,369 Starwood SOF XII 15,868,893 Agriculture/Farmland PGIM Agricutture 2,011,793 Diversified Strategies AQR Global Risk Premium 140,273,174 Newton Global Real Return 133,483,629 Blackstone 20,0782,447	Investments Measured at the Net Asset Value (NAV)				
Defensive Bond Fund         45,557,171           Domestic Equity Index Funds         573,700,430           Core Plus Bond Fund         619,265,485           Timberland         81,134,789           Global Equity Pooled Funds         110,739,019           MCM ACWI ex-US Index         517,104,141           Acadian         162,651,189           Franklin Templeton         134,129,291           Core Real Estate         Invesco Core           Invesco Core         615,433,133           Heitman Core         392,094,269           Value AddReal Estate         46,766,633           Heitman Value Add         66,766,633           TA Fund X         27,613           TA Fund XII         53,738,422           TA Fund XII         109,878,767           LaSalle Fund Fund VII         7,841,732           LaSalle Fund Fund VII         39,043,463           Harrison Street VIII         29,446,369           Starwood SOF XII         15,868,893           Agriculture/Farmland         2011,793           Diversified Strategies         2,011,793           AQR Global Risk Premium         140,273,174           Newton Global Real Return         133,483,629           Blackstone         200,782,		941.430			
Domestic Equity Index Funds         573,700,430           Core Plus Bond Fund         619,265,485           Timberland         81,134,789           Global Equity Pooled Funds         110,739,019           MCM REIT Index         110,739,019           MCM ACWI ex-US Index         517,104,141           Acadian         162,651,189           Franklin Templeton         134,129,291           Core Real Estate         Invesco Core           Invesco Core         615,433,133           Heitman Core         392,094,269           Value AddReal Estate         40,7613           Heitman Value Add         66,766,633           TA Fund X         27,613           TA Fund XI         53,738,422           TA Fund XII         109,878,767           LaSalle Fund Fund VI         7,841,732           LaSalle Fund Fund VII         39,043,463           Harrison Street VIII         29,446,369           Starwood SOF XII         15,868,893           Agriculture/Farmland         2011,793           Diversified Strategies         2011,793           Diversified Strategies         34,023,174           Newton Global Real Return         133,483,629           Blackstone         200,782,447	<u> </u>				
Core Plus Bond Fund       619,265,485         Timberland       81,134,789         Global Equity Pooled Funds       110,739,019         MCM REIT Index       517,104,141         Acadian       162,651,189         Franklin Templeton       134,129,291         Core Real Estate       Invesco Core         Invesco Core       615,433,133         Heitman Core       392,094,269         Value AddReal Estate       Heitman Value Add         Heitman Value Add       66,766,633         TA Fund X       27,613         TA Fund XI       109,878,767         LaSalle Fund Fund VI       7,841,732         LaSalle Fund Fund VII       39,043,463         Harrison Street VIII       29,446,369         Starwood SOF XII       15,868,893         Agriculture/Farmland       PGIM Agricutture       2,011,793         Diversified Strategies       AQR Global Risk Premium       140,273,174         Newton Global Real Return       133,483,629         Blackstone       200,782,447					
Timberland Global Equity Pooled Funds MCM REIT Index MCM ACWI ex-US Index Acadian Franklin Templeton 134,129,291 Core Real Estate Invesco Core Invesco Core Heitman Core Value AddReal Estate Heitman Value Add TA Fund X TA Fund XI TA Fund XI TA Fund XI TA Fund Fund Fund VII LaSalle Fund Fund VIII Salle F					
Global Equity Pooled Funds	Timberland				
MCM REIT Index       110,739,019         MCM ACWI ex-US Index       517,104,141         Acadian       162,651,189         Franklin Templeton       134,129,291         Core Real Estate       Invesco Core       615,433,133         Heitman Core       392,094,269         Value AddReal Estate       Heitman Value Add       66,766,633         TA Fund X       27,613         TA Fund XI       53,738,422         TA Fund XII       109,878,767         LaSalle Fund Fund VII       39,043,463         Harrison Street VIII       39,043,463         Harrison Street VIII       29,446,369         Starwood SOF XII       15,868,893         Agriculture/Farmland       2,011,793         Diversified Strategies       AQR Global Risk Premium       140,273,174         Newton Global Real Return       133,483,629         Blackstone       200,782,447	Global Equity Pooled Funds				
MCM ACWI ex-US Index       517,104,141         Acadian       162,651,189         Franklin Templeton       134,129,291         Core Real Estate       Invesco Core         Invesco Core       615,433,133         Heitman Core       392,094,269         Value AddReal Estate       Heitman Value Add         Heitman Value Add       66,766,633         TA Fund XI       53,738,422         TA Fund XII       109,878,767         LaSalle Fund Fund VI       7,841,732         LaSalle Fund Fund VII       39,043,463         Harrison Street VIII       29,446,369         Starwood SOF XII       15,868,893         Agriculture/Farmland       PGIM Agricutture         PGIM Agricutture       2,011,793         Diversified Strategies       AQR Global Risk Premium       140,273,174         Newton Global Real Return       133,483,629         Blackstone       200,782,447		110,739,019			
Franklin Templeton       134,129,291         Core Real Estate       615,433,133         Heitman Core       392,094,269         Value AddReal Estate       66,766,633         Heitman Value Add       66,766,633         TA Fund X       27,613         TA Fund XII       53,738,422         TA Fund XII       109,878,767         LaSalle Fund Fund VI       7,841,732         LaSalle Fund Fund VII       39,043,463         Harrison Street VIII       29,446,369         Starwood SOF XII       15,868,893         Agriculture/Farmland       2,011,793         Diversified Strategies       AQR Global Risk Premium       140,273,174         Newton Global Real Return       133,483,629         Blackstone       200,782,447	MCM ACWI ex-US Index				
Core Real Estate	Acadian	162,651,189			
Invesco Core	Franklin Templeton	134,129,291			
Heitman Core       392,094,269         Value AddReal Estate       66,766,633         TA Fund X       27,613         TA Fund XII       53,738,422         TA Fund XII       109,878,767         LaSalle Fund Fund VII       7,841,732         LaSalle Fund Fund VII       39,043,463         Harrison Street VIII       29,446,369         Starwood SOF XII       15,868,893         Agriculture/Farmland       2,011,793         Diversified Strategies       AQR Global Risk Premium       140,273,174         Newton Global Real Return       133,483,629         Blackstone       200,782,447	Core Real Estate				
Value AddReal Estate       Heitman Value Add       66,766,633         TA Fund X       27,613         TA Fund XI       53,738,422         TA Fund XII       109,878,767         LaSalle Fund Fund VI       7,841,732         LaSalle Fund Fund VII       39,043,463         Harrison Street VIII       29,446,369         Starwood SOF XII       15,868,893         Agriculture/Farmland       2,011,793         Diversified Strategies       AQR Global Risk Premium       140,273,174         Newton Global Real Return       133,483,629         Blackstone       200,782,447	Invesco Core	615,433,133			
Heitman Value Add 66,766,633 TA Fund X 27,613 TA Fund XII 53,738,422 TA Fund XII 109,878,767 LaSalle Fund Fund VII 7,841,732 LaSalle Fund Fund VII 39,043,463 Harrison Street VIII 29,446,369 Starwood SOF XII 15,868,893 Agriculture/Farmland PGIM Agricutture 2,011,793 Diversified Strategies AQR Global Risk Premium 140,273,174 Newton Global Real Return 133,483,629 Blackstone 200,782,447	Heitman Core	392,094,269			
TA Fund X TA Fund XI TA Fund XII 53,738,422 TA Fund XII 109,878,767 LaSalle Fund Fund VII 7,841,732 LaSalle Fund Fund VII 39,043,463 Harrison Street VIII 29,446,369 Starwood SOF XII 15,868,893 Agriculture/Farmland PGIM Agricutture 2,011,793 Diversified Strategies AQR Global Risk Premium Newton Global Real Return Blackstone 133,483,629 Blackstone 200,782,447	Value AddReal Estate				
TA Fund XI 53,738,422 TA Fund XII 109,878,767 LaSalle Fund Fund VI 7,841,732 LaSalle Fund Fund VII 39,043,463 Harrison Street VIII 29,446,369 Starwood SOF XII 15,868,893 Agriculture/Farmland PGIM Agricutture 2,011,793 Diversified Strategies AQR Global Risk Premium 140,273,174 Newton Global Real Return 133,483,629 Blackstone 200,782,447					
TA Fund XII 109,878,767 LaSalle Fund Fund VI 7,841,732 LaSalle Fund Fund VII 39,043,463 Harrison Street VIII 29,446,369 Starwood SOF XII 15,868,893 Agriculture/Farmland PGIM Agricutture 2,011,793 Diversified Strategies AQR Global Risk Premium 140,273,174 Newton Global Real Return 133,483,629 Blackstone 200,782,447	TA Fund X	27,613			
LaSalle Fund Fund VI       7,841,732         LaSalle Fund Fund VII       39,043,463         Harrison Street VIII       29,446,369         Starwood SOF XII       15,868,893         Agriculture/Farmland       2,011,793         Diversified Strategies       AQR Global Risk Premium       140,273,174         Newton Global Real Return       133,483,629         Blackstone       200,782,447					
LaSalle Fund Fund VII       39,043,463         Harrison Street VIII       29,446,369         Starwood SOF XII       15,868,893         Agriculture/Farmland       2,011,793         Diversified Strategies       AQR Global Risk Premium       140,273,174         Newton Global Real Return       133,483,629         Blackstone       200,782,447		109,878,767			
Harrison Street VIII       29,446,369         Starwood SOF XII       15,868,893         Agriculture/Farmland       2,011,793         Diversified Strategies       AQR Global Risk Premium       140,273,174         Newton Global Real Return       133,483,629         Blackstone       200,782,447	LaSalle Fund Fund VI	7,841,732			
Starwood SOF XII 15,868,893  Agriculture/Farmland PGIM Agricutture 2,011,793  Diversified Strategies AQR Global Risk Premium 140,273,174 Newton Global Real Return 133,483,629 Blackstone 200,782,447	LaSalle Fund Fund VII				
Agriculture/Farmland PGIM Agricutture 2,011,793  Diversified Strategies AQR Global Risk Premium 140,273,174 Newton Global Real Return 133,483,629 Blackstone 200,782,447	Harrison Street VIII	29,446,369			
PGIM Agricutture 2,011,793 Diversified Strategies AQR Global Risk Premium 140,273,174 Newton Global Real Return 133,483,629 Blackstone 200,782,447		15,868,893			
Diversified Strategies  AQR Global Risk Premium  Newton Global Real Return  Blackstone  140,273,174  133,483,629  200,782,447					
AQR Global Risk Premium 140,273,174 Newton Global Real Return 133,483,629 Blackstone 200,782,447		2,011,793			
Newton Global Real Return         133,483,629           Blackstone         200,782,447					
Blackstone <u>200,782,447</u>					
Total Investments Measured at the NAV \$\frac{\\$4,051,913,283}{\}					
	Total Investments Measured at the NAV	\$4,051,913,283	=		

Investments classified as Level 3 in the preceding table are unobservable, meaning that the assets lack an independent pricing source. Values are provided by the investment manager or an external pricing source such as an independent appraiser.

# Investments Measured at the Net Asset Value (NAV)

The fair value of investments that are organized as commingled funds or limited partnerships have no readily ascertainable fair value. The value is determined by using the net asset value per share or its equivalent. Commingled fund values are based on each investor's proportionate share of the total underlying assets in the fund less any liabilities for client withdrawals, investment purchases or other accrued expenses. Limited partnership values are based on the capital account balance the general partner reports at the end of each reporting period, adjusted by subsequent contributions, distributions,

management fees, and changes in values of foreign currency and published market prices for certain securities. Even though the limited partnerships and commingled funds issue annual financial statements audited by independent auditors, the year-end for the state and these entities do not always agree. There are inherent uncertainties in estimating fair values for these types of investments, and it is possible that the estimates will change in the near-term or the subsequent sale of assets will be different from the reported net asset value. With certain exceptions, mainly the equity and the fixed income funds, these investments cannot be redeemed, or, have certain restrictions regarding redemption. The real estate investments distributions are through the liquidation of the underlying assets or net operating cash flows. Each investment has a different redemption frequency and notice period as noted in the following table:

# Investments Measured at the Net Asset Value (in dollars as of June 30, 2022)

	Fair Value	Strategy Type	Fund Life of Non- redeemable mandates	Unfunded Commitments
High Yield Core Fund	\$941,430	Active High Yield Fixed Income	N/A	none
Defensive Bond Fund	45,557,171	Income Oriented	N/A	none
Domestic Equity Index Funds	573,700,430	S & P 500 Index	N/A	none
Core Plus Bond Fund	619,265,485	Active Global Fixed Income	N/A	none
Timberland	81,134,789	Timber	N/A	none
International Equity Pooled Funds				
MCM REIT Index	110,739,019	Global Real Estate securities	N/A	none
MCM ACWI ex-US Index	517,104,141	International Equities	N/A	none
Acadian	162,651,189	International Equities	N/A	none
Franklin Templeton	134,129,291	International Equities	N/A	none
Core Real Estate				
Invesco	615,433,133	Core Real Esate	N/A	none
Heitman	392,094,269	Core Real Esate	N/A	none
Value Add Real Estate				
Heitman Value Partners IV	66,766,633	Value Add Real Estate	N/A	5,558,228
TA Fund X	27,613	Value Add Real Estate	N/A	none
TA Fund XI	53,738,422	Value Add Real Estate	N/A	none
TA Fund XII	109,878,767	Value Add Real Estate	N/A	0
TA Fund XIII	0	Value Add Real Estate	N/A	72,204,120
LaSalle Fund Fund VI	7,841,732	Value Add Real Estate	N/A	
LaSalle Fund Fund VII	39,043,463	Value Add Real Estate	N/A	
Harrison Street Fund VIII	29,446,369	Value Add Real Estate	N/A	20,108,163
Starwood SOF XII	15,868,893	Value Add Real Estate	N/A	57,763,296
Clarion LIT Fund	0	Value Add Real Estate	N/A	81,831,336
Principal Enhanced Fund	0	Value Add Real Estate	N/A	81,831,336
Carlyle Property	0	Value Add Real Estate	N/A	81,831,336
Agriculture/Farmland				
PGIM Agriculture	2,011,793	Agriculture/Farmland	N/A	46,124,287
International Farmland	0	Agriculture/Farmland	N/A	48,136,080
Diversified Strategies:				
AQR Global Risk Premium	140,273,174	Risk Premia	N/A	none
Newton Global Real Return	133,483,629	Global Real Return	N/A	none
Blackstone	200,782,447	Fund of Funds	N/A	none
Total	\$4,051,913,283			\$411,958,495

Redemption Frequency (if currently eligible)	Redemption Notice Period	Other Redemption Restrictions	Restriction Time Remaining
monthly	T + 3	N/A	N/A
daily	T + 1	N/A	N/A
daily	T + 3	N/A	N/A
daily	T + 3	N/A	N/A
none	N/A	N/A	partnership terminates in December 2027
daily	T+1	N/A	N/A
daily	T + 1	N/A	N/A
daily w 10-day notice	T + 1	N/A	N/A
daily	T + 1	N/A	N/A
quarterly	T + 45	N/A	N/A
quarterly	T + 90	N/A	N/A
7-year lock up	N/A	N/A	the lock up period starts on the day of the last capital call
7-year lock up	N/A	N/A	currently in capital redistirbution phase
7-year lock up	N/A	N/A	currently in capital redistirbution phase
7-year lock up	N/A	N/A	the lock up period starts on the day of the last capital call
7-year lock up	N/A	N/A	the lock up period starts on the day of the last capital call
7-year lock up	N/A	N/A	currently in capital redistirbution phase
7-year lock up	N/A	N/A	currently in capital redistirbution phase
7-year lock up	N/A	N/A	the lock up period starts on the day of the last capital call
7-year lock up	N/A	N/A	the lock up period starts on the day of the last capital call
7-year lock up	N/A	N/A	the lock up period starts on the day of the last capital call
7-year lock up	N/A	N/A	the lock up period starts on the day of the last capital call
7-year lock up	N/A	N/A	the lock up period starts on the day of the last capital call
open end w/ 2-year lock up	N/A	N/A	the lock up period starts on the day of the last capital call
open end w/ 2-year lock up	N/A	N/A	the lock up period starts on the day of the last capital call
weekly and monthly	T + 2	N/A	N/A
daily	T + 3	N/A	N/A
last day of each quarter	1yr; 2yrs; 3yrs; >3yrs	55% liquidity; then 20%; then 15%; then 10%	N/A

# **High Yield Core Fund**

The High Yield Active Core philosophy is centered on the belief that the best risk-adjusted returns and, ultimately, the best absolute returns are generated by a strategy of yield capture and error avoidance.

### **Defensive Bond Fund**

The investment objective is to exploit different sources of return available in high yield corporate securities in a way that generates risk-adjusted returns superior to those available from conventional high yield securities. The investment strategy is based on the assumption and observation that numerous market inefficiencies exist throughout the capital markets (particularly in the high yield bond markets) and that the prudent, active and systematic exploitation of these inefficiencies can generate returns consistent with these objectives.

# **Domestic Equity Index Funds**

This is a Standard and Poor's 500 (S&P 500) ) Index fund.

# **Core Plus Bond Fund**

The Core Plus Fixed Income strategy seeks excess return from multiple sources, including sector allocation and subsector and security selection. Duration, yield curve, and currency positioning is moderate. The largest component of the Core Plus Fixed Income risk budget is allocated to portfolio strategies that have consistently generated the highest return for the lowest unit of risk over time, such as sector allocation and subsector security selection. The Core Plus Fixed Income portfolios may emphasize spread product in the sector allocation process and therefore may hold largerthan-benchmark allocations to corporate bonds, structured product, high yield bonds, and emerging markets debt. As a result, the strategy would likely outperform in a 'risk on' environment where corporate bonds, for example, are outperforming. The reverse would also likely be true. The Core Plus Fixed Income portfolios take an activelymanaged, relative-value driven approach. The strategy is expected to perform best in markets with excess spread dislocations that it can capitalize on through relative value trading.

# **Timberland**

An objective of a timber investment is to provide the fund with diversification from traditional asset classes. The goal of the timber investment is to get a stable core-type return with very low or little volatility.

# **International Equity Pooled Funds**

- The Bank of New York Mellon Employee Benefit Daily Valued Non-Securities Lending Real Estate Investment Trust Index Fund— This REIT Index Fund seeks to match the performance and the characteristics of the Dow Jones U.S. Select REIT Index which tracks the performance of publicly traded REITs and REIT-like securities and designed to serve as a proxy for direct real estate investments.
- Bank of New York Mellon All Country World Index ex-US — The MSCI ACWI ex-US Index captures large and mid-cap representation across 22 of 23 Developed Markets (DM) countries (excluding the U.S.) and 24 Emerging Markets (EM) countries. With 2,166 constituents, the index covers approximately 85% of the global equity opportunity set outside the U.S.
- Acadian All Country World ex-US Small Cap
   — The Acadian All Country World ex-US Small
   Cap strategy employs a combination of topdown and bottom-up multi-factor models to
   construct the strategy. The top-down consists
   of value, growth, momentum, volatility, and
   macro factors. The bottom up drives 80% of the
   process.

#### **Real Estate**

This asset class provides diversification to the total portfolio and strives to reduce total fund volatility while also enhancing the total return of the portfolio. Real estate has a low, and in some cases, negative, correlation with other major investment asset classes. The following are the strategies that comprise the Real Estate asset class and are explained in greater detail.

#### **Core Real Estate**

- Invesco Core Real Estate (ICRE) The ICRE strategy is a portfolio of U.S. properties diversified by property type and geographic location, with an emphasis on attractive current income returns and the opportunity for both income and capital growth. It is based on topdown economic fundamentals combined with bottom-up local market intelligence.
- Heitman America Real Estate Trust (HART) —
  The HART strategy creates a high-quality, lowrisk portfolio of stabilized, income-producing
  assets diversified by property type and
  economic exposure through acquiring assets
  in infill locations within major metropolitan

areas, focusing on strong site attributes such as proximity to amenities and transportation networks, and ensuring that assets are well constructed with features that will appeal to tenants over long periods of time.

#### Value Added Real Estate

- Heitman Value Partners IV ("HVP IV") is the fourth offering in Heitman's North American value-add series. It is a closed-end, commingled fund that will pursue a diverse set of real estate opportunities with value-added business plans. The objective is to provide investors with attractive risk-adjusted returns. The strategy seeks to benefit from Heitman's extensive research, real estate, and capital markets expertise to identify emerging investment opportunities and trends before they are fully appreciated by the broader market. The Fund will execute investment strategies that capitalize on those opportunities.
- TA Realty Funds X, XI, XII and XIII TA Realty
  has managed value-add, commingled real estate
  funds for approximately 30 years. They have
  investments in 35 markets, and four property
  types (office, industrial, multifamily, and retail).
  The firm has developed and refined a consistent
  approach focused on creating diversified
  real estate portfolios that can generate strong
  cash flow, benefit from an intensive asset
  management approach, and result in the longterm creating of value of the life of the fund(s).
- LaSalle Funds VI and VII The Funds pursue non-core properties that exhibit strong fundamentals and are expected to generate both income and appreciation. The sectors focused upon are office, multifamily, retail, industrial, and specialty.
- Harrison Street Fund VIII The Fund acquires, develops, and/or redevelops assets in the education, healthcare, life science, and storage sectors. The majority of the return is anticipated to be generated through appreciation.
- Starwood Distressed Opportunity Fund XII
   The strategy pursues distressed investment opportunities which are expected to arise from economic disruptions. Investments will be made across multiple sectors, including multifamily, affordable housing, hotels, office, and industrial. The Fund will invest primarily in the United States and Europe. The fund

- will pursue both debt and equity investments, including the acquisition of distressed or non-performing loans.
- Clarion Partners Lion Industrial Trust This is a \$26 billion open-end industrial fund. It is one of the largest private industrial funds in the U.S. and one of the few "pure-play." The strategy is to invest in warehouse/distribution facilities that appeal to companies focused on e-commerce, logistics, and supply-chain management, with an emphasis on large core industrial markets throughout the United States.
- Principal Enhanced Property Fund This is an open-end, commingled fund sponsored and managed by Principal Real Estate Investors. The features and objectives of the Fund include: pursues a nationally diversified portfolio of high-quality assets, pursues an "enhanced" or "core plus" investment strategy, and provides market competitive total return.
- Carlyle Property Investors This U.S. focused core-plus fund has its focus on sectors where accelerating demographic trends drive demand. The fund objectives: target investments with a Core+ return profile, seek attractive property rent and NOI growth, seek to generate attractive levels of income and quarterly distibutions, and construct a highly diversified portfolio by sector and geography.

### **Agriculture / Farmland**

- PGIM U.S. Agriculture Fund PGIM manages \$2 billion in assets and over 173,000 acres under management. PGIM began investing on behalf of investors in 1989. PGIM seeks to build diversifed portfolios of assets with good quality soils and water security located in microclimates with favorable growing conditions. Targeted investments typically fall within one of the following investment themes: healthier lifestyles, Farm Tech Efficacies and Higher productivity, competitive advantage/ scale, and opportunistic.
- International Farm Corporation Core Farmland Fund - This fund seeks to generate stable income and attractive risk-adjusted financial returns. The strategy has a lower correlation to other asset classes, has a lease strategy that reduces risk, and seeks long-term appreciation. The strategy may enable food sourcing solutions for core fund and IFC growers as well.

## **Diversified Strategies**

This asset class provides diversification to the total portfolio and strives to reduce total fund volatility while also enhancing the total return of the portfolio. The following are the strategies that comprise the Diversified Strategies asset class and are explained in greater detail:

- Global Risk Premium Tactical Fund (GRPT) - The AQR Global Risk Premium Tactical Fund seeks to efficiently deliver exposure to a broadly diversified set of global risk premia. In many institutional portfolios, equity risk is the predominant risk, a concentration driven by the need for high expected return that cannot be satisfied in a traditionally constrained, welldiversified portfolio. Rather than diversifying by capital, this strategy seeks to diversify based on risk across global equities, global nominal bonds, inflation sensitive assets, and credit/default related assets. Starting from this strategic risk-parity base, GRPT then employs modest tactical tilts across sub-sectors and across individual exposures, attempting to exploit temporary opportunities which may arise within markets. Following basic financial theory, AQR designed its Risk Parity strategies based on what they believe to be the most optimal liquid portfolio of global market betas, and AQR offers that same portfolio at various levels of leverage to target a desired amount of risk as approximated by ex-ante volatility. AQR's approach employs modest leverage to scale up a lower-risk, broadly-diversified portfolio.
- Newton Global Real Return (US\$) Newton's global real return US\$ strategy is an actively managed, unconstrained, multi-asset strategy, which aims to achieve a return of one-month USD LIBOR +4 % p.a. over rolling five-year periods. The strategy seeks to add value through security selection and asset type flexibility and it also has an emphasis on capital preservation. The strategy is long only, does not use leverage or short securities, and is daily valued.
- Blackstone (Fund of Funds) The system hired Blackstone to manage a fund-of-funds strategy. As the name suggests Blackstone invests APERS' funds in other hedge funds. The number of funds that APERS invests in varies on market conditions. The types of strategies that are contained within APERS' portfolio also vary. For full disclosure purposes on June 30 there were fundamental equity strategies, event

driven strategies, fundamental credit strategies, credit trading strategies, distressed credit strategies, RMBS strategies, structured ABS strategies, multi-strat strategies, commodity strategies, macro rates strategies, thematic macro strategies, quantitative strategies, CTA strategies, and special situation strategies in the portfolio.

## **Note 4: Other Post-Employment Benefits**

GASB Statement No. 75: Accounting and Financial Reporting by Employers for Post Employment Benefits Other Than Pensions requires that OPEB expense of proprietary and fiduciary funds be recognized on the accrual basis in the fund financial statements. APERS is considered a fiduciary fund in the statewide annual comprehensive financial report.

The 2022 charge of \$393,220 is a prorated amount from the Arkansas Department of Finance and Administration based on a state-wide actuarial study. The amount charged to APERS is based on budgeted employees of the agency. *The State of Arkansas* 2022 *Annual Comprehensive Financial Report* will contain the complete OPEB footnote required by *GASB Statement No.75*.

## Note 5: Legally Required Reserves

- The Employers' Accumulation Account accumulates employers' contributions to be used in providing the reserves required for transfer to the Retirement Reserve Account as members retire or become eligible for disability benefits.
- The Retirement Reserve Account is the account to which member contributions, interest on those contributions, and employer contributions are transferred upon member retirement.
- The Deferred Annuity Account is the amount set up to cover estimated retirement benefits to inactive vested members who are not currently receiving benefit payments.

As a by-product of achieving level contribution financing, actuarial accrued liabilities usually become increasingly well funded over a period of years. Funded ratios in the 70% to 90% range are common in public sector retirement plans.

The reserve strength of APERS remains strong both by absolute and relative measures. Sufficient assets were available to pay estimated retirement benefits applicable to retired individuals or beneficiaries currently receiving benefits and inactive vested individuals who are not currently receiving benefits.

## Reserve Balances (as of June 30, 2022)

Members' Deposit Account	\$559,296,816
Members' Deposit Account Interest Reserve	104,002,318
Employer Accumulation Account	1,992,904,418
Retirement Reserve	6,376,224,191
Deferred Annuity	580,335,670
DROP Reserve	101,366,665
Dec 31, 2004 Accrued Liability Reserve	19,626,327
Other	82,226
Total	\$9,733,838,631

## **Note 6: Summary of Capital Assets**

(as of June 30, 2021 and 2022)

### **Capital Assets**

Balance as of June 30, 2021	\$21,414,675
Additions	2,202,118
Deletions	(27,781)
Balance as of June 30, 2022	23,589,012
<b>Accumulated Depreciation</b>	
Balance as of June 30, 2021	9,186,569
Depreciation Expense	2,909,683
Deletions	(27,781)
Balance as of June 30, 2022	12,068,471
Net Capital Assets as of June 30, 2022	\$11,520,541

## **Note 7: Deferred Retirement Option Plan**

A Deferred Retirement Option Plan (DROP) is available to members of the system as authorized by A.C.A. §§ 24-4-801 - 24-4-806. In lieu of terminating employment and accepting a retirement benefit under the system, any member who has at least 28 years of actual service in the system can elect to participate in the DROP. The DROP allows a member to defer the receipt of retirement benefits for a maximum of 10 years. During that time, a percentage of a member's chosen benefit is deposited into an account that accrues interest at a rate of 2% annually. The system had a balance of \$101,366,665 in the DROP reserve as of June 30, 2022.

## **Note 8: Net Pension Liability**

The components of the net pension liability (NPL) of the system on June 30, 2022, were as follows:

Total pension liability	\$12,430,222,099
Plan fiduciary net position	\$9,733,838,632
Net pension liability	\$2,696,383,467
Plan fiduciary net position as a percentage of total pension liability	78.31%

## **Long-term Expected Return on Plan Assets**

The system's policy in regard to the allocation of its invested assets was established by the Board and is reviewed at least annually to determine if the asset allocation is consistent with an acceptable level of risk and volatility.

The long-term expected rate of return on pension plan investments was determined using a buildingblock method in which best-estimate ranges of expected future real rates of return are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the current asset allocation percentage and by adding expected price inflation. Best estimates of arithmetic real rates of return for the 10-year period from 2020 to 2029 were based upon capital market assumptions provided by the plan's investment consultants. For each major asset class that is included in the pension plan's current asset allocation as of June 30, 2022, these best estimates are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Broad Domestic Equity	37%	6.22%
International Equity	24%	6.69%
Real Estate	16%	4.81%
Absolute Return	5%	3.05%
Domestic Fixed	18%	0.57%
Total	100%	
Total Real Rate of Return		4.93%
Plus: Price Inflation - Actuary's Assu	ımption	2.50%
Less: Investment Expenses (Passive	e)	0.00%
Net Expected Return		7.43%

### **Discount Rate**

A single discount rate of 7.15% was used to measure the total pension liability. This single discount rate was based on the expected rate of return on pension plan investments of 7.15%. The projection of cash flows used to determine this single discount rate assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate.

Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments

was applied to all periods of projected benefit payments to determine the total pension liability.

### Sensitivity of the Net Pension Liability

Regarding the sensitivity of the net pension liability to changes in the single discount rate, the following presents the plan's net pension liability, calculated using a single discount rate of 7.15%, as well as what the plan's net pension liability would be if it were calculated using a single discount rate that is 1-percentage-point lower or 1-percentage-point higher:

1% Decrease	<b>Current Discount Rate</b>	1% Increase
6.15%	7.15%	8.15%
\$4,286,757,199	\$2,696,383,467	\$1,383,387,497

# **Required Supplementary Information**

## **Schedule of Employer Contributions**

(dollars in millions)

Year Ended June 30	Actuarially Determined Contribution	Actual Contribution*	Contribution Deficiency (Excess)	Covered Employee Payroll	Actual Contributions as a % of Covered Payroll
2013	\$ 251.4	\$ 251.4	0	\$ 1,696	14.82%
2014	264.1	264.1	0	1,748	15.11
2015	263.3	263.3	0	1,757	14.98
2016	264.2	264.2	0	1,795	14.72
2017	261.3	261.3	0	1,788	14.61
2018	276.3	276.3	0	1,849	14.94
2019	293.0	293.0	0	1,936	15.13
2020	298.9	298.9	0	1,929	15.49
2021	305.9	305.9	0	1,908	16.04
2022	\$ 320.2	\$ 320.2	0	\$ 2,054	15.59%

<sup>\*</sup>Actual contributions are based on covered payroll at the time of the contribution. This payroll is not reported to the actuary. The covered payroll shown on this page is the valuation payroll. Based upon the limitations of this schedule, the final column cannot be compared to the contribution rates actually charged to APERS participating employers.

## **Actuarial Methods and Assumptions**

Actuarial Cost Method Entry age normal

**Assumed Investment Return** 7.15%

Projected salary increases 3.25% to 9.85% including inflation (3.25% to 6.96% including inflation for District Judges)

Mortality tables Based on the RP-2006 Healthy Annuitant benefit weighted generational mortality tables for

males and females. Mortality rates are multipled by 135% for males and 125% for females and

are adjusted for fully generational mortality improvements using Scale MP-2017

**Inflation rate** 3.25% Wage inflation and 2.5% price inflation

Payroll Increase 3.25%

## **Schedule of the Net Pension Liability**

Year Ending June 30	Total Pension Liability	Fiduciary Net Position	Net Pension Liability	Fiduciary Net Position as a % of Total Pension Liability	Covered Payroll	Net Pension Liability as a % of Covered Payroll
2014	\$8,950,456,656	\$7,531,544,420	\$1,418,912,236	84.15%	\$1,748,350,136	81.16%
2015	\$9,391,975,712	\$7,550,242,341	\$1,841,733,371	80.39%	\$1,757,056,813	104.82%
2016	\$9,762,106,222	\$7,370,758,150	\$2,391,348,072	75.50%	\$1,795,174,463	133.21%
2017	\$10,612,937,270	\$8,028,796,790	\$2,584,140,480	75.65%	\$1,788,074,570	144.52%
2018	\$10,808,687,173	\$8,602,752,132	\$2,205,935,041	79.59%	\$1,849,202,619	119.29%
2019	\$11,245,856,457	\$8,833,327,660	\$2,412,528,797	78.55%	\$1,936,042,263	124.61%
2020	\$11,632,595,177	\$8,769,010,690	\$2,863,584,487	75.38%	\$1,929,343,374	148.42%
2021	\$11,954,285,999	\$11,185,453,706	\$768,832,293	93.57%	\$1,907,642,349	40.30%
2022	\$12,430,222,099	\$9,733,838,632	\$2,696,383,467	78.31%	\$2,054,188,304	131.26%

## **Schedule of Investment Returns**

(annual money-weighted rate of return, net of investment expense, by fiscal year)

2014	18.97%
2015	2.28%
2016	(0.06)%
2017	11.89%
2018	9.90%
2019	5.31%
2020	2.00%
2021	30.83%
2022	(10.81)%



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## **Schedule of Changes in the Net Pension Liability and Related Ratios**

Fiscal Year Ending June 30	2022	2021	2020
TOTAL PENSION LIABILITY			
Service Cost	\$205,730,312	\$200,169,558	\$198,416,559
Interest	838,746,422	816,578,389	789,604,504
Benefit Changes	0	(5,405,298)	0
Differences Between Expected and Actual Experience	84,323,321	(65,645,442)	2,007,866
Assumption Changes	0	0	0
Benefit Payments, Including Refunds of Employee Contributions	(652,863,955)	(624,006,385)	(603,290,209)
NET CHANGE IN TOTAL PENSION LIABILITY	475,936,100	321,690,822	386,738,720
TOTAL PENSION LIABILITY, BEGINNING OF YEAR	11,954,285,999	11,632,595,177	11,245,856,457
TOTAL PENSION LIABILITY, END OF YEAR (a)	12,430,222,099	11,954,285,999	11,632,595,177
PLAN FIDUCIARY NET POSITION			
	000 001 614	205 200 760	000.010.054
Contributions - Employer	320,231,614	305,922,769	298,919,954
Contributions - Member	80,317,012	74,358,836	70,923,737
Net Investment Income	(1,192,887,341)	2,665,823,683	174,561,773
Benefit Payments, Including Refunds of Employee Contributions	(652,863,955)	(624,006,385)	(603,290,209)
Administrative Expense	(11,794,785)	(11,644,328)	(11,681,604)
Other Additions	5,382,381	5,988,441	6,249,379
NET CHANGE IN PLAN FIDUCIARY NET POSITION	(1,451,615,074)	2,416,443,016	(64,316,970)
PLAN FIDUCIARY NET POSITION, BEGINNING OF YEAR	11,185,453,706	8,769,010,690	8,833,327,660
PLAN FIDUCIARY NET POSITION, END OF YEAR (b)	9,733,838,632	11,185,453,706	8,769,010,690
NET PENSION LIABILITY, END OF YEAR (a) - (b)	\$2,696,383,467	\$768,832,293	\$2,863,584,487
PLAN FIDUCIARY NET POSITION AS A PERCENTAGE OF THE TOTAL PENSION LIABILITY	78.31%	93.57%	75.38%
COVERED - EMPLOYEE PAYROLL	\$2,054,188,304	\$1,907,642,349	\$1,929,343,374
NET PENSION LIABILITY AS A PERCENTAGE OF COVERED - EMPLOYEE PAYROLL	131.26%	40.30%	148.42%

2019	2018	2017	2016	2015	2014
\$189,567,873	\$181,557,602	\$174,663,657	\$169,112,934	\$168,811,990	\$160,924,334
759,163,751	745,846,405	719,134,258	692,210,941	682,217,546	658,535,986
(62,984)	0	0	0	0	0
60,093,169	(6,960,593)	62,849,281	2,912,566	(137,672,890)	(23,038,076)
0	(180,097,868)	416,146,405	0	192,273,597	214,798,742
(571,592,525)	(544,595,643)	(521,962,553)	(494,105,931)	(464,111,187)	(424,003,992)
437,169,284	195,749,903	850,831,048	370,130,510	441,519,056	587,216,994
10,808,687,173	10,612,937,270	9,762,106,222	9,391,975,712	8,950,456,656	8,363,239,662
11,245,856,457	10,808,687,173	10,612,937,270	9,762,106,222	9,391,975,712	8,950,456,656
292,951,695	276,282,425	261,334,560	264,216,252	263,332,831	264,050,160
67,221,706	63,430,545	57,711,427	55,000,117	50,750,458	47,215,843
450,493,099	782,326,766	862,824,701	(4,260,175)	168,929,698	1,207,897,156
(571,592,525)	(544,595,643)	(521,962,553)	(494,105,931)	(464,111,187)	(424,003,992)
(14,739,700)	(11,497,216)	(9,495,869)	(6,929,103)	(6,949,282)	(6,854,975)
6,241,253	8,008,465	7,626,374	6,594,649	6,745,403	8,302,355
230,575,528	573,955,342	658,038,640	(179,484,191)	18,697,921	1,096,606,547
8,602,752,132	8,028,796,790	7,370,758,150	7,550,242,341	7,531,544,420	6,434,937,873
8,833,327,660	8,602,752,132	8,028,796,790	7,370,758,150	7,550,242,341	7,531,544,420
\$2,412,528,797	\$2,205,935,041	\$2,584,140,480	\$2,391,348,072	\$1,841,733,371	\$1,418,912,236
78.55%	79.59%	75.65%	75.50%	80.39%	84.15%
\$1,936,042,263	\$1,849,202,619	\$1,788,074,570	\$1,795,174,463	\$1,757,056,813	\$1,748,350,136
124.61%	119.29%	144.52%	133.21%	104.82%	81.16%



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## **Investment Overview**

Investment returns play an important role in the funded ratio of the APERS trust fund. The Board of Trustees of the Arkansas Public Employees Retirement System (the Board) has adopted an Investment Policy Statement whose purpose is the exclusive benefit of the participants and beneficiaries of the system and whose objective is maximizing the total rate of return on investments within prudent risk parameters. The overall goal is to achieve an annualized rate of return which, when combined with employee and employer contributions, will meet or exceed the benefit and administrative requirements of the system.

The system's investments are managed by professional investment management firms based upon statutory investment authority as well as the investment policies adopted by the Board. The investment staff coordinates and monitors the investment of the trust fund's assets and assists in the formulation and implementation of investment policies and long-term investment strategy.

The net investment portfolio fair values shown in this section, and used for the basis of calculating investment returns, may differ from those shown in other sections of this report. The values shown in this section are the appropriate industry standard basis for investment return calculation.

#### Asset Allocation and Diversification

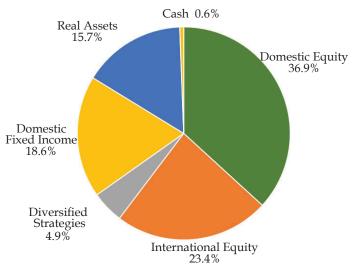
Asset allocation is a process which is designed to construct an optimal long-term asset mix which achieves a specific set of investment objectives. The Investment Policy Statement establishes the system's asset allocation policy as designed to meet those objectives.

The system's asset allocation policy has been adopted to provide diversification. The goal is to maximize the investment return as well as to be consistent with prudent levels of market and economic risks. The most important decision is the determination of asset allocation targets.

The pie chart illustrates the actual asset allocation to each type of investment as of June 30, 2022.

### **Summary of Investments by Asset Class**

as of June 30, 2022



Due to rounding, chart may not equal 100%

Risk is further diversified by utilizing active and passive management as well as by retaining multiple investment management firms with varying investment styles.

The system also places restrictions on the investment managers. APERS has investment guidelines that manage the risk of high concentrations in a particular sector, industry, or security.

## **Capital Markets Commentary**

As fiscal year 2021 ended the markets had recovered from the COVID-19 collapse. FY 2021 posted an amazing return of 31.49%.

### **September 30, 2021**

September 2021 (Q1 of FY 2022) lived up to its reputation as the cruelest month of the year for stock returns based on data going back as far as 1928. Stock prices capitulated to a series of obstacles. As the Federal Reserve Bank moved closer to tapering their bond purchases, surging energy prices, a Chinese property giant that was failing, continued standoff over the U.S. debt ceiling, the passage of the \$3.5 trillion climate and social stability bill, and the ongoing COVID-19 health crisis all weighed on the markets during the quarter.

The S&P 500 posted its worse monthly performance in September 2021. The bullet points for 3Q21:

- Slowing economic growth
- Inflationary pressure
- Monetary policy
- Decreased risk appetite

In the U.S. GDP growth slipped to 2% in 3Q after a 6.7% gain in 2Q. Consumers grew cautious as the COVID Delta variant fueled a pandemic surge which softened consumer and business spending.

Internationally, China's GDP rose less than 1% annualized in 3Q21 as renewed pandemic restrictions and supply chain issues challenged growth.

The 3Q GDP fell dramatically from 6.7% in 2Q to 2.00%.

**Interest rates:** The 10-year treasury closed 3Q at 1.488%.

### **December 31, 2021**

The fourth quarter of 2021 was able to recover some of the third quarter's loss. Economic data in 4Q recovered but tight labor markets and a mismatch between jobs and job seekers, confused employers. Inflation spiked to a record 7% for the first time in decades. But in the background, the markets continue to be nervous about supply chain issues, the end of fiscal stimulus, the Omicron variant, and the Fed tapering.

The S&P 500 posted a strong +11.0% gain in 4Q21. Large Cap growth was the top performer as persistent inflation pushed investors into the perceived safety of the largest stocks during the quarter.

The international markets shifted back to the COVID favorites, boosting information technology stocks. Similar to the S&P 500, large cap stocks were favored, and the emerging markets struggled as China experienced significant pressure from economic slowdown and regulatory crackdown.

The 4Q GDP hit a robust 6.9%.

**Interest rates**: The 10-year treasury finished 2021 at 1.518%.

## March 30, 2022

The month of March did see a "buy-the-dip" rally, but it couldn't lift the S&P 500 enough. The S&P 500 closed 1Q22 -4.60%. The escalation between Russia and Ukraine caused a lot of unease. Hawkish rhetoric from the Federal Reserve, warning of more aggressive rate hikes to combat inflation, and a surge in COVID cases in China, South Korea, and the United Kingdom all weighed on the markets.

Equity and Fixed Income markets all traded sharply lower following the Russian invasion of Ukraine. After the invasion, Russia faced condemnation and sanctions that crippled its stocks, bonds, and currency, thereby shocking the global markets. The invasion exacerbated inflationary concerns and led energy prices to surge as Russia is the second largest natural gas provider and the third largest oil producer in the world.

Inflation: CPI for 1Q22, +8.5%

The 1Q22 GDP fell 1.4% from almost 7% in the previous quarter.

**Interest rates**: The 10-year treasury closed the quarter at 2.351%.

There was nowhere to hide. For the quarter:

- S&P 500 -4.60%
- Russell 2000 -7.53%
- Russell 3000 -5.28%
- MSCI ex US -4.81%
- MSCI ACWI xUS -6.52%
- Bloomberg Agg -5.93%

## June 30, 2022

Inflationary pressures, a determined Federal Reserve, and escalating fears of a recession were the dominant issues of 2Q22.

By June 13, 2022, the S&P 500 Index had officially entered bear market territory, down -21.82% from the January 3rd peak. For the June 30 fiscal year end, the S&P 500 was down -16.10% for the quarter, and -10.62% for the fiscal year.

Usually one would expect bonds to offset that loss. Over the past 100 years, stocks and bonds have only been down together about 10% of the time. Nevertheless, bonds went down as well. The Bloomberg Agg fell -4.69% for the quarter, and -10.29% for the fiscal year.

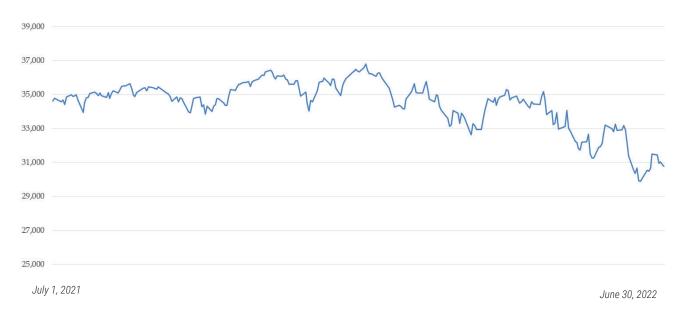
The 2Q22 GDP fell 0.9% after dropping 1.6% in 1Q22. Forecasters have cut growth estimates for 2022 to 0%, or lower, and to 1.5% for 2023.

**Interest rates**: The 10-year treasury closed the quarter at 3.015%.

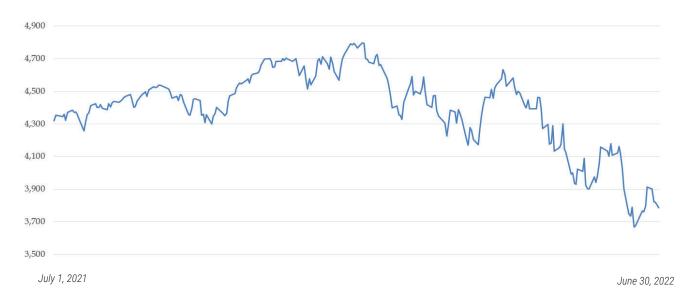
### **Investment Portfolio Assets**

At the close of FY2022, APERS' investment portfolio had a fair value of \$10.098 billion which was a decrease of \$1.503 billion from the \$11.603 billion investment value from June 30, 2021.

## **Dow Jones Industrial Average**



### **S&P 500 INDEX**



## **Investment Results**

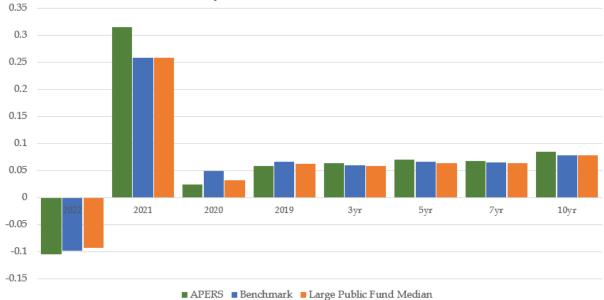
For the fiscal year ending June 30, 2022, APERS realized a total portfolio investment return of -10.54%. The return underperformed the -9.88% return of APERS' policy benchmark, a set of market indexes and weightings to those indexes that reflect APERS' asset class targets. Outperformance was aided by active investment management, especially in the international equity allocation.

APERS' -10.54% return severely missed the actuarial assumed rate of return of 7.15%.

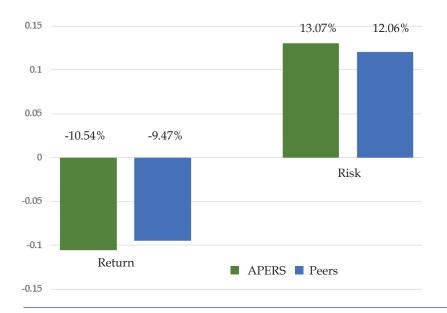
The following graphs and tables provide a historical perspective of APERS' investment returns and performance over the past few years. APERS' investment returns are shown for the total portfolio as well as for each asset class over various time periods. The benchmark or target for each asset class is also shown.

At the November 2021 meeting, the board hired two new farmland/agriculture investment managers and committed capital to a new asset class within real assets.

## **Investment Performance Summary**



### Risk vs. Total Return

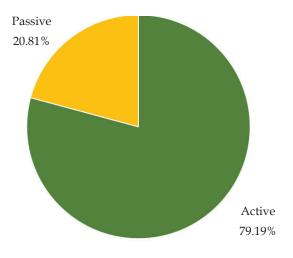


## **Domestic Equity**

As of June 30, 2022, 37.09% of APERS' portfolio was invested in domestic equities (U.S. stocks). The fair value of the domestic equity portfolio was \$3.724 billion.

The portfolio takes an active management approach to the U.S. stock markets with 79.19% invested with active investment managers.

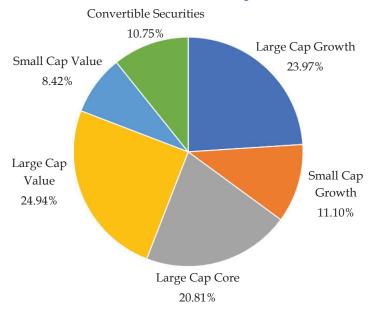
#### **Active vs. Passive Potfolio Assets**



The passive component is primarily an S&P 500 Index fund. It constitutes an efficient, low-cost means of obtaining market exposure and provides liquidity should it be needed for benefit payments.

APERS utilizes active management in small, mid, and large capitalization stock strategies. The portfolio is also invested in strategies that focus on different investment styles: a value portfolio which focuses on companies undervalued relative to their prospective dividend and earnings growth; a growth portfolio which focuses on companies whose earnings are expected to grow at rates which exceed the general economy; and a core portfolio which seeks to add value across all sectors through stock selection.

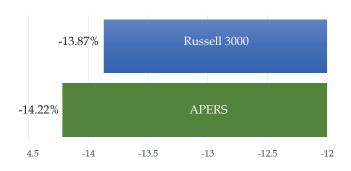
### **APERS Portfolio Strategies**



The portfolio is widely diversified across various equity market sectors and industries.

### Results

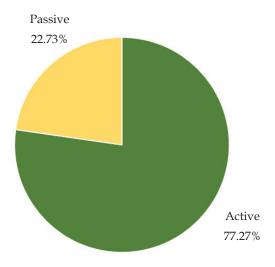
The domestic equity portfolio returned -14.22% for the fiscal year. APERS' benchmark, the Russell 3000 Index, returned -13.87%.



## **International Equity**

As of June 30, 2022, 23.53% of APERS' portfolio was invested in international equities (Non-U.S. stocks). The fair value of the international equity portfolio was \$2.362 billion.

The portfolio takes an active management approach to international markets with approximately 78% invested with active investment managers. The international portfolio assets are allocated across developed and emerging markets. APERS utilizes the MSCI EAFE (Europe, Asian, and Far East) Index as its benchmark for the international equity index.



The passive component is an ACWI ex-US Index Fund. Similar to the S&P 500 Index Fund, it constitutes an efficient, low-cost means of obtaining market exposure and provides liquidity should it be needed for benefit payments.

### **Results**

The international equity portfolio returned -22.24% for the fiscal year. APERS' benchmark, the MSCI EAFE Index, returned -17.77%.

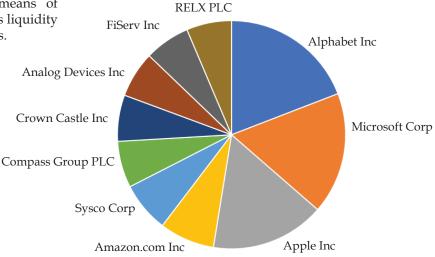


## **Top 10 Holdings**

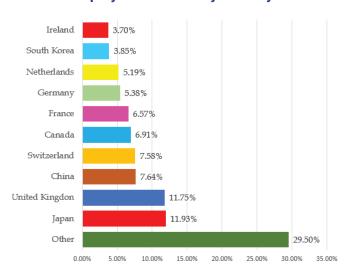
The top 10 holdings within the public equity portfolio (domestic and international combined) as of June 30, 2022

	Holding	Market Value*
1	Alphabet Inc.	\$94,974,330
2	Microsoft Corp.	85,577,554
3	Apple Inc.	80,182,862
4	Amazon.com Inc.	38,754,436
5	Sysco Corp.	35,314,328
6	Compass Group PLC	32,729,026
7	Crown Castle Inc.	32,554,252
8	Analog Devices Inc.	32,399,256
9	FiServ Inc.	31,989,075
10	RELX PLC	\$31,681,013

<sup>\*</sup>Figures are APERS and ASPRS combined.



### **Public Equity Distribution by Country**





As of June 30, 2022, 18.68% of APERS' portfolio was invested in fixed income securities which was slightly overweight of the asset allocation target of 18%. The fair value of the international equity portfolio was \$1.876 billion.

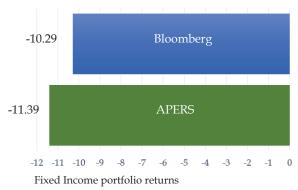
#### **Core-Plus Fixed Income**

APERS' fixed income portfolio is invested in coreplus fixed income strategies. The objective is to generate a return above the core fixed income investment. The fixed income portfolio is 100% invested in core plus and is 100% actively managed.

The core-plus portfolio is a diversified portfolio of fixed income securities, utilizing cash and cash equivalents, forward foreign exchange contracts, swaps, currency options, financial futures, government and government agency bonds, Eurobonds, nondollar bonds, nonconvertible preferred stock, options on fixed income instruments, mortgage-backed bonds, corporate bonds, commercial mortgage-backed securities, private placement corporate bonds, and asset-backed securities.

#### Results

The fixed income portfolio returned -11.39% for the fiscal year. APERS' benchmark, the Bloomberg Aggregate Index, returned -10.29%.



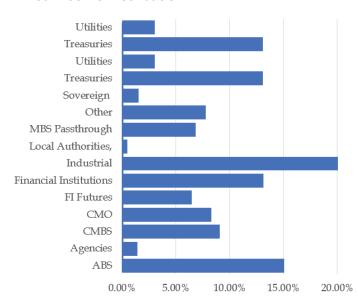
## **Top 10 Holdings**

The top 10 holdings within the fixed income portfolio as of June 30, 2022

	Holdings	Market Value*
1	U.S. Treasury Bond 1.25% 5/15/2050	\$31,072,316
2	U.S. Treasury Bond 3.25% 5/15/2042	31,002,594
3	U.S. Treasury Bond 2.875% 5/15/2052	25,951,265
4	U.S. Treasury Bond 3.25% 6/30/2027	12,161,243
5	U.S. Treasury Bond 2.875% 6/15/2025	10,328,402
6	U.S. Treasury Bond 3.00% 6/30/2024	10,013,300
7	U.S. Treasury Bond 2.50% 4/30/2024	9,524,256
8	U.S. Treasury Bond 3.25% 6/30/2029	9,296,088
9	U.S. Treasury Bond 2.875% 5/15/2032	9,287,458
10	FNMA 4.00% 5/01/2052	9,066,798

<sup>\*</sup>Figures are APERS and ASPRS combined

### **Fixed Income Distribution**



## **Diversified Strategies**

As of June 30, 2022, 4.91% of APERS' portfolio was invested in diversified strategies. This asset class has the smallest allocation target. The fair value of the portfolio was \$492.9 million.

The Diversified Strategies allocation provides diversification to the total portfolio and strives to reduce total fund volatility while also enhancing the total return of the portfolio.

One of the strategies is a Risk Premium Tactical Fund. It seeks to efficiently deliver exposure to a broadly diversified set of global risk premia. Rather than diversifying by capital, this strategy seeks to diversify based on risk across global equities, global nominal bonds, inflation sensitive assets, and credit/default related assets.

The Global Real Return strategy is an actively managed, unconstrained, multi-asset strategy, which aims to achieve a return of one-month USD LIBOR +4% over rolling five-year periods.

The Fund-of-Funds strategy invests in hedge funds. The total number of funds varies as does the types of strategies. On June 30, 2022, there were fundamental equity strategies, event driven strategies, fundamental credit strategies, credit trading strategies, distressed credit strategies, RMBS strategies, structured ABS strategies, "multistrat" strategies, commodity strategies, macro rates strategies, thematic macro strategies, quantitative strategies, CTA strategies, and special situation strategies in the portfolio.

### Results

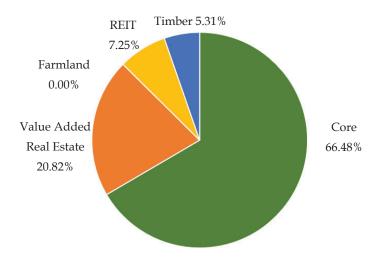
The Diversified Strategies portfolio returned -4.53% for the fiscal year. APERS' target returned -12.51% which is not a benchmark because a benchmark does not exist. The target comprises 60% of the MSCI World Index and 40% of the Bloomberg Aggregate Index.



## **Real Assets**

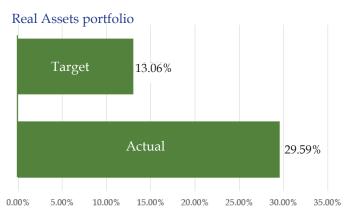
As of June 30, 2022, 15.80% of APERS' portfolio was invested in real assets. The fair value of the portfolio was \$1.586 billion.

The asset allocation comprises five different subcategories: core real estate, value add real estate, timber, agriculture, and a passive REIT index.



#### **Results**

The Real Assets portfolio returned 29.59% for the fiscal year. APERS' target returned 13.06% which is not a benchmark because a benchmark does not exist. The target comprises CPI-U +4%.



Core Real estate returned 29.54% for the fiscal year, Value Add Real Estate returned 55.47%, Timber returned 15.52%, and REITs returned -6.07%.

## **Schedule of Comparative Investment Results by Year**

	2022	2021	2020	2019	2018	2017	2016
Total Fund							
APERS	(10.54)%	31.49%	2.41%	5.78%	10.25%	12.30%	0.30%
APERS Benchmark	(9.88)%	25.82%	4.91%	6.68%	8.40%	12.90%	0.27%
Actuarial Assumed Investment Return	7.15%	7.15%	7.15%	7.15%	7.15%	7.15%	7.50%
Domestic Equities							
APERS	(14.22)%	43.65%	6.06%	8.12%	16.27%	17.52%	(0.38)%
Russell 3000 Index	(13.87)%	44.16%	6.53%	8.98%	14.78%	18.51%	2.14%
International Equities							
APERS	(22.24)%	41.35%	(1.45)%	1.98%	7.22%	18.39%	(6.88)%
MSCI - EAFE Index	(17.77)%	32.35%	(5.13)%	1.08%	6.84%	20.27%	(10.16)%
Fixed Income							
APERS	(11.39)%	4.32%	6.81%	8.57%	0.79%	3.04%	5.06%
Bloomberg Aggregate Index	(10.29)%	(0.33)%	8.74%	7.87%	(0.40)%	(0.31)%	6.00%
Diversified Strategies							
APERS	(4.53)%	17.26%	(1.17)%	10.20%	6.43%	5.51%	2.86%
Diversified Strategy Target	(12.51)%	22.15%	6.45%	7.41%	6.40%	10.51%	0.82%
Real Assets							
APERS	29.59%	18.52%	(4.37)%	1.72%	11.34%	3.27%	8.29%
Consumer Price Index - U + 4%	13.06%	9.39%	4.65%	5.65%	6.87%	5.63%	5.01%

## **Schedule of Comparative Annualized Investment Results**

	3-year	5-year	7-year	10-year
Total Fund				
APERS	6.40%	7.03%	6.77%	8.43%
APERS Benchmark	5.95%	6.58%	6.53%	7.87%
Actuarial Assumed Investment Return	7.15%	7.15%		
Domestic Equities				
APERS	9.33%	10.44%	9.79%	12.00%
Russell 3000 Index	9.77%	10.60%	10.43%	12.57%
International Equities				
APERS	2.70%	3.44%	3.88%	6.72%
MSCI - EAFE Index	1.07%	2.20%	2.70%	5.40%
Fixed Income				
APERS	(0.42)%	1.56%	2.26%	2.76%
Bloomberg Aggregate Index	(0.93)%	0.88%	1.42%	1.54%
Diversified Strategies				
APERS	3.43%	5.35%	5.01%	6.02%
Diversified Strategy Target	4.39%	5.39%	5.44%	6.56%
Real Assets				
APERS	13.67%	10.71%	9.27%	8.93%
Consumer Price Index - U + 4%	8.98%	7.88%	7.14%	6.59%

## **Schedule of Manager Distribution**

(for the year ended June 30, 2022)

Asset Allocation	Total	APERS	ASPRS
Domestic Equity			
SSI Investment Management	\$400,497,007	\$385,567,120	\$14,929,888
Lazard Asset Management	446,078,745	429,449,643	16,629,102
Wellington	482,686,719	464,692,931	17,993,789
CastleArk Management	477,660,827	459,854,396	17,806,431
Intech	415,117,893	399,642,962	15,474,931
Stephens	413,473,252	398,059,631	15,413,621
LSV Asset Management	313,736,339	302,040,750	11,695,589
Horrell Capital (Passive)	179,158,757	172,480,005	6,678,752
MCM EB DV Stock Index	595,915,258	573,700,490	22,214,767
Domestic Fixed Income			
Mackay CP II (Pareto)	635,684,108	611,986,821	23,697,286
Doubleline Capital	597,382,409	575,112,949	22,269,460
Prudential Investments	643,244,615	619,265,485	23,979,130
International Faulty			
International Equity  MCM ACWI Ex-US Index Fund	537,127,453	517,104,201	20,023,252
	168,949,351	162,651,189	6,298,161
Acadian Asset Management			
Franklin Templeton	139,323,031	134,129,291	5,193,740
Manning & Napier	267,071	257,115	9,956
Lazard Asset Management	495,550,969	477,077,621	18,473,347
Artisan Partners	557,439,071	536,658,634	20,780,437
Baillie Gifford	464,042,789	446,744,016	17,298,773
Diversified Strategies			
AQR Capital Management	145,704,816	140,273,174	5,431,642
Newton Capital Management	138,652,368	133,483,629	5,168,738
Blackstone	208,557,123	200,782,447	7,774,676
Real Assets			
CastleArk (Global Energy)	14,909	14,353	556
PGIM Agriculture	2,089,693	2,011,793	77,900
Harrison Street Fund VIII	30,586,588	29,446,369	1,140,219
Starwood SOF XII	16,483,367	15,868,893	614,474
Invesco Realty (Core Fund)	644,061,218	620,051,646	24,009,572
Heitman Value Fd IV	64,547,775	62,141,537	2,406,238
Ta Associates Realty - Fund X	28,682	27,613	1,069
Ta Associates Realty - Fund XI	55,819,275	53,738,422	2,080,853
Ta Associates Realty - Fund XII	114,133,481	109,878,767	4,254,714
Lasalle Investment Management - Fund VI	8,145,379	7,841,732	303,647
Lasalle Investment Management - Fund Vii	40,555,299	39,043,463	1,511,837
Heitman Real Estate	410,610,512	395,303,609	15,306,903
Pinnacle Forest Investments	84,276,481	81,134,789	3,141,692
MCM EB DV Non St Rt	115,027,044	110,739,019	4,288,024
Short-term Investment Fund	56,240,859	48,957,845	7,283,014
		, ,,,,,,,	,,
TOTAL FUND	\$10,098,870,531	\$9,717,214,351	\$381,656,180

# **Schedule of Brokerage Commissions**

(for the year ended June 30, 2022)

Brokerage firm	<b>Total Commission</b>	APERS	ASPRS
Morgan Stanley & Co.	\$709,772	\$683,313	\$26,459
Merrill Lynch	118,790	114,362	4,428
J P Morgan Securities	117,816	113,424	4,392
Citigroup Global Markets	110,391	106,276	4,115
Credit Suisse	100,247	96,510	3,737
Goldman Sachs & Co.	96,691	93,087	3,604
UBS	71,644	68,973	2,671
Virtu Americas LLC, New York	61,593	59,297	2,296
Piper Jaffray & Co., Jersey City	54,783	52,741	2,042
Liquidnet Inc.	43,092	41,485	1,606
All others	630,494	606,991	23,504
	\$2,115,313	\$2,036,458	\$78,855

## **Schedule of Investment Fees**

(for the year ended June 30, 2022)

	<b>Combined Fees</b>	APERS Fees	ASPRS Fees
Domestic Equity	\$14,683,947	\$14,136,553	\$547,394
International Equity	10,039,576	9,665,317	374,259
Fixed Income	3,930,859	3,784,323	146,536
Real Assets	24,792,456	23,868,233	924,223
Diversified Strategies	3,958,879	3,811,298	147,581
The Bank of New York Mellon*	532,406	512,559	19,847
Callan Associates†	338,680	326,054	12,625
Total Investment Service Fees	\$58.276.802	\$56.104.336	\$2,172,466

<sup>\*</sup>Custodian bank

<sup>†</sup> Investment consultant

## **Actuary's Certification Letter**

800.521.0498 | P: 248.799.9000 | www.grsconsulting.com

November 14, 2022

Board of Trustees Arkansas Public Employees Retirement System Little Rock, Arkansas

Dear Board Members:

The basic financial objective of the Arkansas Public Employees Retirement System (APERS) as provided in the Arkansas Code is to establish and receive contributions which, expressed as percents of active member payroll, will remain approximately level from generation to generation of Arkansas citizens and when combined with present assets and future investment return will be sufficient to meet the financial obligations of APERS to present and future benefit recipients. The progress towards meeting this financial objective is illustrated in the Schedule of Funding Progress and the Schedule of Employer Contributions.

We performed an actuarial valuation and issued an actuarial valuation report for APERS as of June 30, 2022. The purpose of the June 30, 2022 annual actuarial valuation was to determine the contribution requirements for the year beginning July 1, 2024 and to measure the System's funding progress. The actuarial valuation report should not be relied upon for any other purpose. The valuation process develops contribution rates that are sufficient to fund the plan's normal cost (i.e., the cost assigned by the valuation method to the year of service about to be rendered) as well as to fund unfunded actuarial accrued liabilities as a level percent of active member payroll (level dollar for the District Judges portion of APERS) over a period of up to 30 years. The most recent valuations were completed based upon population data, asset data, and plan provisions as of June 30, 2022. In addition, a separate report was issued (dated November 3, 2022) to provide actuarial information for GASB Statement No. 67 and GASB Statement No. 68.

The APERS administrative staff provides the actuary with data for the actuarial valuation. The actuary relies on the data after reviewing it for internal and year-to-year consistency. The actuary summarizes and tabulates population data in order to analyze longer term trends. The plan's external auditor also audits the actuarial data annually. We are not responsible for the accuracy or completeness of the data provided by staff.

The actuarial valuation report and GASB Statement Nos. 67 and 68 report contain the following supporting schedules for use in the Actuarial and Financial Sections of the Annual Comprehensive Financial Report:

#### **Actuarial Section**

Summary of Assumptions Used
Summary of Actuarial Methods and Assumptions
Active Member Valuation Data
Short Condition Test
Analysis of Financial Experience
Analysis of Financial Experience – Gains and Losses by Risk Area

One Towne Square | Suite 800 | Southfield, Michigan 48076-3723

Board of Trustees Arkansas Public Employees Retirement System November 14, 2022 Page 2

#### **Financial Section**

Schedule of Funding Progress
Schedule of Changes in Net Pension Liability and Related Ratios
Schedule of the Net Pension Liability
Schedule of Contributions
Notes to Schedule of Contributions

For actuarial valuation purposes, assets are valued on a market related basis that recognizes each year's difference between actual and assumed investment return over a closed four-year period with the exception of the old plan still paying District Judges portion of APERS, where assets are valued on a market basis.

Actuarial valuations are based upon assumptions regarding future activity in specific risk areas, including the rates of investment return and payroll growth, eligibility for the various classes of benefits, and longevity among retired lives. These assumptions are adopted by the Board after considering the advice of the actuary and other professionals. The assumptions and the methods comply with the requirements of the Actuarial Standards of Practice. Each actuarial valuation takes into account all prior differences between actual and assumed experience in each risk area and adjusts the contribution rates as needed.

The June 30, 2022 valuations were based upon assumptions that were recommended in connection with a study of experience covering the period 2012-2017. The investment return assumption was changed for the June 30, 2017 valuation and the demographic assumptions were changed for the June 30, 2018 valuation.

On the basis of the June 30, 2022 actuarial valuations and the benefits and contribution rates then in effect, it is our opinion that the Arkansas Public Employees Retirement System continues to satisfy the general financial objective of level contribution financing.

Future actuarial measurements may differ significantly from those presented in the annual valuations due to such factors as experience differing from that anticipated by actuarial assumptions, or changes in plan provisions, actuarial assumption/methods or applicable law. Due to the limited scope of the assignment, we did not perform an analysis of the potential range of future measurements.

The reports were prepared using our proprietary valuation model and related software which, in our professional judgment, has the capability to provide results that are consistent with the purposes of the valuation, and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.



Board of Trustees Arkansas Public Employees Retirement System November 14, 2022 Page 3

The signing individuals are independent of the plan sponsor.

Mita D. Drazilov and Heidi G. Barry are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

Respectfully submitted, Gabriel, Roeder, Smith & Company

Mita D. Drazilov, ASA, FCA, MAAA

Heidi H Barry, ASA, FCA, MAAA

David L. Hoffman

MDD/HGB/DLH:dj



## **Summary of Actuarial Assumptions**

### **Economic Assumptions**

The investment return rate used in making the valuation was 7.15% per year, compounded annually (net after investment expenses). This rate of return is not the assumed real rate of return. The real rate of return is the portion of investment return which is more than the wage inflation rate. Considering the assumed wage inflation rate of 3.25%, the 7.15% investment return rate translates to an assumed net real rate of return of 3.90%. The wage inflation assumption was first used for the June 30, 2015, valuation, including also the District Judges division. The investment return assumption was first used for the June 30, 2017, valuation, including also the District Judges division.

Pay increase assumptions for individual active members are shown on pages E-8 and E-10. Part of the assumption for each age is for a merit and/or seniority increase, and the other 3.25% recognizes wage inflation. The wage inflation assumption consists of 2.50% for price inflation and 0.75% for real wage growth. These assumptions were first used for the June 30, 2018, valuation and for the District Judges division for the June 30, 2015, valuation.

Total active member payroll is assumed to increase 3.25% a year, which is the portion of the individual pay increase assumptions attributable to wage inflation. This assumption was first used for the June 30, 2015, valuation and for the District Judges division for the June 30, 2015, valuation.

The number of active members is assumed to continue at the present number.

### **Non-Economic Assumptions**

The mortality tables used to measure retired life mortality were the RP-2006 Healthy Annuitant benefit weighted generational mortality tables for males and females. The disability post-retirement mortality tables used were the RP-2006 Disabled Retiree benefit weighted generational mortality tables for males and females. The death-inservice mortality tables used were the RP-2006 Employee benefit weighted generational mortality tables for males and females. Mortality rates are multiplied by 135% for males and 125% for females and are adjusted for fully generational mortality improvements using Scale MP-2017. This assumption was first used for the June 30, 2018, valuation.

The probabilities of retirement for members eligible to retire are shown on pages E-4 through E-7. These probabilities were first used for the June 30, 2018, valuation and for the June 30, 2007, valuation for the District Judges division.

The probabilities of withdrawal from service, death-in-service and disability are shown for sample ages on pages E-8 through E-10. These probabilities were first used for the June 30, 2018, valuation and for the District Judges division for the June 30, 2018, valuation.

The individual entry-age normal actuarial cost method of the valuation was used in determining liabilities and normal cost.

Differences in the past between assumed experience and actual experience (actuarial gains and losses) become part of actuarial accrued liabilities.

Unfunded actuarial accrued liabilities are amortized to produce contribution amounts (principal and interest) which are level percent-of-payroll contributions. For the District Judges division, unfunded actuarial accrued liabilities are amortized as a level dollar contribution.

Recognizing the special circumstances of the General Assembly division, modifications of the above assumptions were made where appropriate.

Present assets (cash and investments) were valued on a market related basis in which differences between actual and assumed returns are phased-in over a four-year period (including District Judges New Plan and Paid Off Old Plan). The funding value of assets may not deviate from the market value of assets by more than 25%. District Judges Still Paying Old Plan present assets (cash and investments) were valued on a market value basis.

The data about persons now covered and about present assets were furnished by the system's administrative staff. Although examined for general reasonableness, the data was not audited by the Actuary.

The actuarial valuation computations were made by or under the supervision of a Member of the American Academy of Actuaries (MAAA).

\*The data referenced in this section is taken from the actuary's report, *Arkansas Public Employees Retirement System Actuarial Valuation and Experience Gain/(Loss) Analysis June 30, 2022,* prepared by Gabriel Roeder Smith & Co. The page numbers mentioned above refer to this report. A PDF copy of the report is available for download at www.apers.org.

## **Actuarial Data**

## **Single Life Retirement Values**

Sample Attained		Present Value of Present Value of \$1.00 Monthly for Life \$1.00 Monthly for Life Increasing 3% Annually		Future Life Expectancy (Years) 2022 *		
Ages	Men	Men Women		Women	Men	Women
40	\$ 156.24	\$ 160.06	\$ 229.85	\$ 239.48	41.26	44.94
45	151.16	156.10	216.93	228.14	36.35	39.96
50	144.75	150.78	202.11	214.61	31.59	35.04
55	136.82	143.70	185.37	198.62	27.01	30.19
60	127.07	134.79	166.63	180.41	22.63	25.52
65	115.36	123.93	146.13	160.24	18.51	21.10
70	101.57	110.73	124.07	138.02	14.68	16.93
75	85.72	95.09	100.89	114.12	11.18	13.07
80	68.46	77.57	77.70	89.65	8.09	9.62
85	51.31	59.65	56.31	66.54	5.55	6.74

Sample Attained	Benefit Increasing	Portion of Age 60 Lives Still Alive *	
Ages	3.0% Yearly	Men	Women
60	\$100	100 %	100 %
65	116	93	96
70	134	85	89
75	155	73	80
80	180	56	67

<sup>\*</sup> Applicable to calendar year 2022. Life expectancies and rates in future years are determined by the fully generational MP-2017 projection scale.

## **Separations from Active Employment Before Retirement**

(State and Local Government Division as of June 30, 2022)

				ent of Active	Members he Next Year			-	crease Assum <sub>i</sub> Individual Emp	
Sample	le Years of W		drawal	Dea	th *	Disal	bility	Merit &	Base	Increase
Ages	Service	Men	Women	Men	Women	Men	Women	Seniority	(Economy)	Next Year
	0	40.0 %	40.0 %							
	1	25.0	25.0							
	2	20.0	20.0							
	3	15.0	15.0							
	4	12.0	12.0							
20	5+	11.0	11.0	0.05 %	0.02 %	0.01 %	0.01 %	6.60 %	3.25 %	9.85 %
25		11.0	11.0	0.06	0.02	0.04	0.04	5.16	3.25	8.41
30		9.7	9.7	0.07	0.03	0.07	0.07	3.30	3.25	6.55
35		6.8	6.8	0.08	0.04	0.09	0.09	2.28	3.25	5.53
40		4.8	4.8	0.09	0.06	0.13	0.13	1.70	3.25	4.95
45		3.7	3.7	0.13	0.08	0.17	0.17	1.38	3.25	4.63
50		3.0	3.0	0.22	0.13	0.34	0.34	1.00	3.25	4.25
55		2.1	2.1	0.37	0.22	0.60	0.60	0.68	3.25	3.93
60		1.3	1.3	0.65	0.33	0.85	0.85	0.42	3.25	3.67

<sup>\*</sup>Applicable to calendar year 2022 Rates in future years are determined by the above rates and the MP-2017 projection scale. Pay increase rates are age based only, and not service based.

# **Probabilities of Retirement for Members Eligible to Retire: State and Local Government Division**

(as of June 30, 2022)

Retirement Ages	Percent of Eligible Active Members			
(with less than	Retiring Within Next Year			
28 years of service)	Unreduced	Reduced		
55		2.5 %		
56		2.5		
57		3.0		
58		3.5		
59		4.0		
60		5.0		
61		5.5		
62		20.0		
63		20.0		
64		15.0		
65	22.0 %			
66	25.0			
67	23.0			
68	18.0			
69	18.0			
70	18.0			
71	18.0			
72	18.0			
73	18.0			
74-84	20.0			
85 & Over	100.0			

<sup>\*</sup>A member was assumed eligible for unreduced retirement after attaining age 65 with 5 years of service or 28 years regardless of age. A member was assumed eligible for reduced retirement after attaining age 55 with 10 or more years of service.

# **Probabilities of Retirement for Members Eligible to Retire: General Assembly Division**

(as of June 30, 2022)

Retirement Ages	Percent of Eligible Active Members Retiring Within Next Year
50	30 %
51	30
52	30
53	30
54	30
55	30
56	30
57	30
58	30
59	30
60	30
61	30
62	50
63	30
64	30
65	50
66	30
67-79	20
80 & Over	100

<sup>\*</sup>Member may retire at age 50 with 20 or more years of service, age 60 with 16 or more years of service, or age 65 with 8 or more years of service.

## **Short Condition Test**

APERS' funding objective is to meet long-term benefit promises through contributions that remain approximately level from year to year as a percentage of member payroll. If the contributions to the system are level in concept and soundly executed, the system will pay all promised benefits when due — the ultimate test of financial soundness. Testing for level contribution rates is the long-term condition test.

A short condition test is one means of checking a system's progress under its funding program. In a short condition test, the system's present assets (cash and investments) are compared with

- 1. Active member contributions on deposit,
- 2. The liabilities for future benefits to present retired lives, and

3. The liabilities for service already rendered by active members.

In a system that has been following the discipline of level percent-of-payroll financing, the liabilities for active member contributions on deposit (liability 1) and the liabilities for future benefits to present retired lives (liability 2) will be fully covered by present assets (except in unusual circumstances).

In addition, the liabilities for service already rendered by active members (liability 3) will be partially covered by the remainder of present assets. The larger the funded portion of liability 3, the stronger the condition of the system.

Liability 3 being fully funded is uncommon.

## **Ten-Year Comparative Statement**

(dollars in millions for fiscal years ended June 30)

	Entry Age Accrued Liability			_				
	(1)	(2)	(3)		P	ortion of	f Presen	t
Val'n.	Active	Retirees	<b>Active Members</b>		Values Covered by		У	
Date:	Member	and	(Employer Financed	Valuation		Present	Assets	
June 30	Contr.	Benef.	Portion)	Assets	(1)	(2)	(3)	Total
	STATE DIVISIO	ON (including	sub-divisions)					
1998@	\$17.2	\$ 640.3	\$1,395.9	\$2,328.5	100%	100%	119%	113%
1999@#	16.9	784.0	1,634.2	2,637.1	100%	100%	112%	108%
2000	15.8	747.5	1,865.7	2,943.3	100%	100%	117%	112%
	LOCAL GOVE	RNMENT DIVIS	SION					
1998@	\$ 8.8	\$ 337.9	\$ 501.1	\$ 968.1	100%	100%	124%	114%
1999#	8.8	446.9	587.9	1,074.7	100%	100%	105%	103%
2000	7.6	440.0	706.0	1,178.1	100%	100%	103%	102%
	STATE AND LO	OCAL GOVERN	MENT DIVISION					
2013@	147.9	3,855.2	4,281.1	6,159.3	100%	100%	50%	74%
2014@	176.3	4,246.7	4,440.6	6,894.9	100%	100%	56%	78%
2015@	201.1	4,654.5	4,439.2	7,351.7	100%	100%	56%	79%
2016	228.4	4,929.2	4,505.1	7,768.9	100%	100%	58%	80%
2017	291.1	5,547.3	4,671.8	8,157.0	100%	100%	50%	78%
2017@	291.1	5,460.9	4,568.5	8,157.0	100%	100%	53%	79%
2018	334.7	5,717.9	4,641.7	8,416.4	100%	100%	51%	79%
2019	376.0	6,015.8	4,737.0	8,738.7	100%	100%	50%	79%
2020	410.2	6,270.1	4,832.7	9,090.4	100%	100%	50%	79%
2021#	439.2	6,531.0	4,851.3	9,892.5	100%	100%	60%	84%
2022	473.0	6,677.8	5,075.3	10,220.3	100%	100%	60%	84%

<sup>#</sup> After legislated changes in benefit provisions.

<sup>@</sup> After changes in actuarial assumptions.

## **Analysis of Experience**

## Purpose of Gain/(Loss) Analysis

Regular actuarial valuations give valuable information about the composite change in unfunded actuarial accrued liabilities – whether or not the liabilities are increasing or decreasing and by how much.

But valuations do not show the portion of the change attributable to each risk area within the retirement system: the rate of investment return which plan assets earn; the rates of withdrawal of active members who leave covered employment; the rates of mortality; the rates of disability; the rates of pay increases; and the ages at actual retirement. In an actuarial valuation, assumptions must be made as to what these rates will be, for the next year and for decades in the future.

The objective of a gain and loss analysis is to determine the portion of the change in actuarial condition (unfunded actuarial accrued liabilities) attributable to each risk area.

The fact that actual experience differs from assumed experience is to be expected – the future cannot be predicted with precision. The economic risk areas (particularly investment return and pay increases) are volatile. Inflation directly affects economic risk areas, and inflation seems to defy reliable prediction.

Changes in the valuation assumed experience for a risk area should be made when the differences between assumed and actual experience have been observed to be sizable and persistent. A gain and loss analysis covering a relatively short period may or may not be indicative of long-term trends, which are the basis of actuarial assumptions.

## **Changes in Unfunded Actuarial Accrued Liability**

(dollars in millions for the fiscal year ended June 30, 2022)

(1) UAAL* at beginning of year	\$ 1,929.0
(2) Employer normal cost from last valuation	146.6
(3) Actual employer contributions	320.1
(4) Interest accrual: [(1) + ½[(2) - (3)]]x .0715	131.7
(5) Expected UAAL before changes: (1) + (2) - (3) + (4)	1,887.2
(6) Increase from benefit changes	0.0
(7) Changes from revised actuarial assumptions and methods	0.0
(8) New entrant liabilities	61.7
(9) Expected UAAL after changes: (5) + (6) + (7) + (8)	1,948.9
(10) Actual UAAL at end of year	2,005.9
(11) Gain/(Loss): (9) - (10)	\$ (57.0)

<sup>\*</sup> Unfunded actuarial accrued liability.

# Gains/Losses by Risk Area (for the fiscal year ended June 30, 2022)

			% of
Type of Risk Area		Total	Accrued Liabilities
		in millions)	
<b>ECONOMIC RISK AREAS Pay Increases.</b> If there are smaller pay increases than assumed, there is a gain. If greater increases, a loss.	\$	(106.5)	(0.9)%
<b>Investment Return.</b> If there is greater investment return than assumed, there is a gain. If less return, a loss.		(113.8)	(0.9)%
NON-ECONOMIC RISK AREAS  Non-Casualty Retirements. If members retire at older ages or with lower final average pays than assumed, there is a gain. If younger ages or higher average pays, a loss.		2.8	0.0 %
<b>Disability Retirements.</b> If there are fewer disabilities than assumed, there is a gain. If more, a loss.		1.2	0.0 %
<b>Death-in-Service Benefits.</b> If there are fewer claims than assumed, there is a gain. If more, a loss.		(3.2)	0.0 %
<i>Withdrawal.</i> If more liabilities are released by other separations than assumed, there is a gain. If smaller releases, a loss.		82.5	0.7 %
Total Active Member Actuarial Gains/(Losses)	\$	(137.0)	(1.1)%
Retired Life Mortality.		79.0	0.6 %
<b>Other.</b> Includes data adjustments at retirement, timing of financial transactions, and miscellaneous unidentified sources.	\$	1.0	0.0 %
Total Actuarial Gains/(Losses)	\$	(57.0)	(0.5)%

# **Summary of Plan Provisions**

The Old Contributory Plan is available to persons who became members of APERS before January I, 1978. The Non-Contributory Plan applies to all persons first hired after January I, 1978, and before July 1, 2005, in APERS-covered employment. The New Contributory Plan applies to all persons hired after July 1, 2005, in APERS-covered employment or Non-Contributory members who elected to participate in the New Contributory Plan.

## **Voluntary Retirement**

## **New Contributory**

### Normal retirement with a full benefit

After either (a) age 65 with 5 years of actual service, or (b) 28 years of actual service, regardless of age. For sheriff and public safety members, the age 65 requirement is reduced 1 month for each 2 months of actual service, but not below age 55 (age 52 for sheriff members with a minimum of 10 years of actual service).

## Early retirement with a reduced benefit

After age 55 with 5 years of service or any age with 25 years of service. The reduction is equal to ½ of 1% for each month retirement precedes normal retirement age or 1% for each month below 28 years of actual service, whichever is less.

### Final Average Compensation (FAC)

Average of highest annual compensations paid during any period of 3 years (5 years for members hired on or after July 1, 2022).

### **Non-Contributory**

#### Normal retirement with a full benefit

After either (a) age 65 with 5 years of actual service, or (b) 28 years of actual service, regardless of age. For sheriff and public safety members, the age 65 requirement is reduced 1 month for each 2 months of actual service, but not below age 55 (age 52 for sheriff members with a minimum of 10 years of actual service).

### Early retirement with a reduced benefit

After age 55 with 5 years of service or any age with 25 years of service. The reduction is equal to  $\frac{1}{2}$  of 1% for each month retirement precedes normal retirement age or 1% for each month below 28 years of actual service.

### Final Average Compensation (FAC)

Average of highest annual compensations paid during any period of 3 years (5 years for members hired on or after July 1, 2022).

## Full Age and Service Retirement Benefit

## **New Contributory**

2.00% of FAC times years of service (2.03% for service prior to July 1, 2007), plus .5% of FAC for each year of actual service over 28 years rendered after July 1, 2009.

The minimum monthly benefit is \$150 minus any age and beneficiary option reductions.

### Non-Contributory

1.72% of FAC times years and months of credited service (1.75% for service prior to July 1, 2007), plus .5% of FAC for each year of actual service over 28 years rendered after July 1, 2009. If retirement is prior to age 62, an additional .33% of FAC times years of service will be paid until age 62. The portion of the APERS benefit based on service before 1978 cannot be less than the amount provided by contributory provisions in effect at the time of retirement.

The minimum monthly benefit is \$150 minus any age and beneficiary option reductions.

### **Benefit Increases After Retirement**

### **New Contributory**

Annually, there will be a cost-of-living adjustment equal to 3% of the current benefit.

For members first hired on or after July 1, 2022, the redetermined amount is the monthly benefit payable as of the preceding July 1 increased by the lesser of three percent (3%), or the percentage change in the Consumer Price Index for Urban Wage Earnings and Clerical Workers (CPI-W) over the one-year period ending in the December preceding the redetermination date.

## **Non-Contributory**

Annually, there will be a cost-of-living adjustment equal to 3% of the current benefit.

For members first hired on or after July 1, 2022, the redetermined amount is the monthly benefit payable as of the preceding July 1 increased by the lesser of three percent (3%), or the percentage change in the Consumer Price Index for Urban Wage Earnings and Clerical Workers (CPI-W) over the one-year period ending in the December preceding the redetermination date.

### **Member Contribution Rates**

## **New Contributory**

5% of covered compensation (pre-tax). Beginning July 1, 2022, the member contribution rate will increase in increments of 0.25% per year until it reaches the maximum 7%. Member contributions are refundable if APERS-covered employment terminates. Members will earn interest on the contributions at a rate of 2% annually.

### **Non-Contributory**

No employee contributions for service after January 1, 1978. If there is service before January 1, 1978, contributions for that period are refundable later in the same manner as under the Contributory Plan.

### **Deferred Vested Retirement**

#### **New Contributory**

Vested termination benefits with 5 or more years of actual service and leaving APERS-covered employment before normal retirement age. Deferred full retirement benefit, based on service and compensation at termination, begins at age 65. A death benefit is payable to surviving spouse of member who dies before benefit commencement.

In place of deferred full benefit, after age 55 a qualifying member can elect an immediate reduced benefit.

## Non-Contributory

Vested termination benefits with 5 or more years of actual service, and leaving APERS-covered employment before normal retirement age. Deferred full retirement benefit, based on service and compensation at termination, begins at age 65. A death benefit is payable to surviving spouse of member who dies before benefit commencement.

In place of deferred full benefit, after age 55 a qualifying member can elect an immediate reduced benefit.

## **Total and Permanent Disability**

### **New Contributory**

Disabled after 5 or more years of actual service, including credit for 18 of the 24 months preceding disability.

Amount is computed as an age and service benefit, based on service and compensation at disability.

### **Non-Contributory**

Disabled after 5 or more years of actual service, including credit for 18 of the 24 months preceding disability.

Amount is computed as an age and service benefit, based on service and compensation at disability.

### Death After Retirement

### **New Contributory**

If death occurs before total monthly benefit payments equal member's accumulated contributions, the difference is refunded, if an annuity option was not elected.

A retiring member can also elect an annuity option, which provides beneficiary protection paid for by reducing the retired member's benefit amount. Should the member elect a straight life benefit and decease within 12 months of the date of retirement, a benefit may be payable to the surviving spouse under certain conditions.

## **Non-Contributory**

Member contributions before 1978 are protected in the same manner as under the Contributory Plan.

A retiring member can also elect an annuity option, which provides beneficiary protection paid for by reducing the retired member's benefit amount. Should the member elect a straight life benefit and decease within 12 months of the date of retirement, a benefit may be payable to the surviving spouse under certain conditions.

## **Death While in APERS-Covered Employment**

### **New Contributory**

Member's accumulated contributions are refundable if monthly benefits are not payable.

If the member had 5 or more years of service, monthly benefits are payable instead. Surviving spouse receives a benefit computed as if member had retired and elected the Joint and 75% Survivor Option. Payment begins immediately.

Each dependent child receives benefit of 10% of compensation (maximum of 25% for all children).

Dependent parent benefits are payable if neither spouse nor dependent children benefits are payable.

**Position** 

## **Non-Contributory**

Member's accumulated contributions before 1978 are refundable if monthly benefits are not payable.

If the member had 5 or more years of service, monthly benefits are payable. Surviving spouse receives a benefit computed as if member had retired and elected the Joint and 75% Survivor Option. Payment begins immediately.

Each dependent child receives benefit of 10% of compensation (maximum of 25% for all children).

Dependent parent benefits are payable if neither spouse nor dependent children benefits are payable.

**Service Credit** 

### **Credited Service**

#### 1 ½ times regular rate with 5 years actual service required to Public Safety Members (including State CapitolPolice and Wildlife Sub-Division members) hired before July 1, 1997. meet benefit eligibility rules. Governor (hired before July 1, 1999) 3 times regular rate with 5 years actual service required to meet death-in-service eligibility and 4 years actual service required for other benefit eligibility. Elected State Constitutional Officers (hired before July 1, 1999) 2-1/2 times regular rate with 5 years actual service required to meet benefit eligibility. General Assembly Regular crediting rate with 5 years of actual service required to meet death-in-service eligibility and 10 years of actual service required for other benefit eligibility. 2 times regular rate with 5 years actual service required to meet Other Elected Public Officials (municipal and county officials) benefit eligibility. All Other Members Regular rate.

#### **APERS Deferred Retirement Option Plan**

Members with 28 years of actual service in APERS or in combination with a reciprocal system are eligible to participate.

Members, for a maximum of 10 years, may continue employment and have 75% of their accrued benefit (at date of participation with 30 or more years of service) paid into the Deferred Retirement Option Plan in lieu of any further benefit accruals.

The payments into the Deferred Retirement Option Plan accumulate with interest at a rate established by the Board. The interest is paid on the mean balance and is paid to the member at termination of active membership in either a lump sum or as an annuity.

Employer contributions continue for members participating in the DROP.



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# **The System**

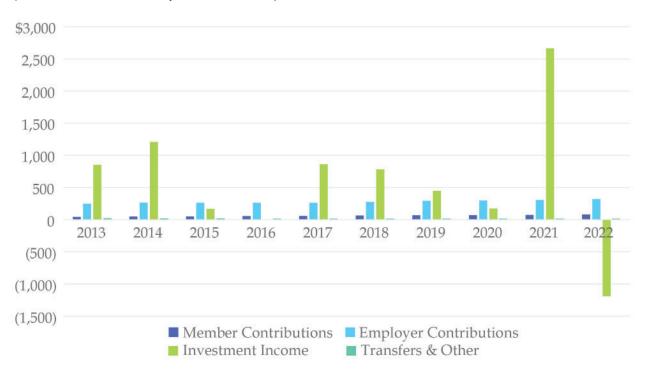
# **Schedule of Revenues by Source**

(in dollars for fiscal years ended June 30)

Year Ended June 30	Member Contributions	Employer Contributions	Investment Income	Transfers and Others	Total
2013	44,549,911	249,062,186	851,920,691	8,915,952	1,154,448,740
2014	48,237,869	264,477,703	1,208,430,494	6,786,822	1,527,932,888
2015	51,596,001	262,720,214	169,621,019	6,558,462	490,495,697
2016	55,944,132	263,545,822	(4,177,314)	6,271,067	321,583,707
2017	58,500,339	262,063,747	862,824,701	6,105,620	1,189,494,407
2018	64,730,519	276,784,232	782,326,767	6,069,774	1,129,911,292
2019	68,206,685	293,575,107	450,493,098	5,115,404	817,390,294
2020	71,470,967	299,497,566	174,561,773	4,870,799	550,401,105
2021	75,044,922	306,570,648	2,665,823,683	4,636,568	3,052,075,821
2022	81,213,355	320,805,145	(1,192,887,342)	4,475,146	(786,393,696)

# **Chart of Revenues by Source**

(in millions of dollars for fiscal years ended June 30)



# **Schedule of Investment Return Rate**

(for fiscal years ended June 30)

Year	Rate	Year	Rate
1993	15.70%	2008	(4.45)%
1994	1.75	2009	(20.89)
1995	16.60	2010	11.95
1996	13.23	2011	26.00
1997	15.11	2012	(0.33)
1998	15.91	2013	15.58
1999	8.16	2014	19.68
2000	9.42	2015	2.45
2001	(3.82)	2016	0.30
2002	(5.72)	2017	12.30
2003	5.53	2018	10.25
2004	13.42	2019	5.78
2005	9.85	2020	2.41
2006	12.24	2021	31.49
2007	18.01%	2022	(10.54)%

# **Chart of Investment Return Percentage Rate**



# **Schedule of Expenses by Type**

(for fiscal years ended June 30)

Fiscal	Year Benefit Payments <sup>1</sup>	Administrative Expenses <sup>2</sup>	Refunds	Total
2013	396,607,128	7,340,273	8,446,701	412,394,102
2014	414,548,645	7,209,769	9,455,348	431,213,761
2015	451,912,791	7,201,144	12,195,637	471,309,572
2016	480,913,495	7,181,913	13,188,729	501,284,137
2017	508,200,406	9,502,608	13,755,408	531,458,422
2018	530,861,312	11,503,639	13,727,908	556,092,859
2019	555,352,597	14,739,700	16,239,928	586,332,225
2020	587,453,797	11,682,726	15,835,290	614,971,813
2021	608,207,117	11,644,847	15,798,750	635,650,713
2022	635,176,766	11,794,786	17,687,189	664,658,741

<sup>1</sup> Includes DROP and PAW distributions.

# **Summary of Administrative Expenses**

	2022	2021	2020	2019	2018
Personnel Services	\$4,812,611	\$4,752,456	\$4,894,754	\$4,907,576	\$4,654,834
Communications	308,144	322,120	276,125	347,126	226,678
Purchases	94,745	62,055	128,986	92,039	76,857
Services and Charges	977,132	1,631,521	1,613,277	1,637,239	1,634,717
Bad Debt Expense	231,024	155,787	65,265	716,682	0
Depreciation Expense	2,909,683	2,177,851	2,178,514	2,175,693	2,061,822
Post Employment Benefits	393,220	338,871	58,203	1,656,182	639,368
Data Processing Charges	2,068,228	2,204,186	2,467,603	3,207,163	2,209,363
Total Administrative Expenses	\$11,794,786	\$11,644,847	\$11,682,726	\$14,739,700	\$11,503,639

<sup>2</sup> A summary of administrative expenses can be found on the table below.

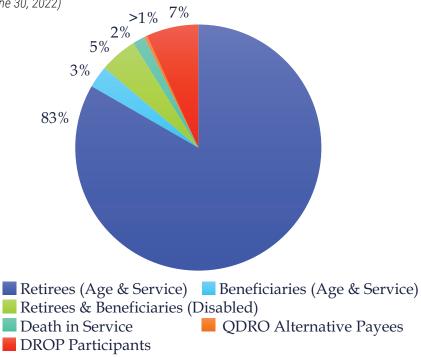
# Schedule of Benefit Expenses by Type\*

(for fiscal years ended June 30)

	Age and	Service	Disability		QDRO	
Fiscal Year	Retirees	Beneficiaries	Retirees & Beneficiaries	Death in Service	Alternative Payees	DROP Participants
2013	333,567,174	11,125,082	26,158,872	336,180		
2014	363,644,841	12,006,363	27,648,624	320,928		
2015	392,995,993	13,555,679	26,854,608	7,428	1,346,409	49,188,840
2016	417,856,215	14,859,185	27,738,864	41,088	1,549,793	47,686,116
2017	449,127,264	13,258,740	29,710,308	8,837,724	1,798,296	37,399,188
2018	471,378,204	14,960,412	30,417,624	9,385,248	2,005,704	46,929,948
2019	500,098,272	15,582,348	31,298,916	9,604,896	2,159,076	50,352,876
2020	523,802,448	17,078,448	32,792,592	10,211,760	2,284,872	50,936,592
2021	548,656,164	18,254,160	33,479,772	10,482,132	2,448,240	45,525,552
2022	\$559,176,360	\$19,560,720	\$33,151,632	\$10,797,852	\$2,601,300	\$45,928,200

<sup>\*</sup> Expenses are based on annualized June 30 benefits amounts.

# **Chart of Benefit Expenses by Type**\*



<sup>\*</sup> Figures in chart are rounded thus may not equal 100 percent.

# Membership

APERS covers all state employees who are not covered by another authorized plan, all county employees, municipal employees whose municipalities have elected coverage under the System, college and university employees, certain non-teaching school employees, and other public entities specifically defined by law.

# Members\*

(for fiscal years ended June 30)

	2022	2021
Retirees and Beneficiaries Receiving Benefits (includes DROP participants)	41,390	40,762
Terminated Plan Members Entitled to But Not Yet Receiving Benefits	15,066	14,802
Active Plan Members	42,771	42,667

 $<sup>\</sup>ensuremath{^*}$  Includes members of the Arkansas District Judges Retirement System

## **Chart of Memberships by Type (Percentages)**



# **Summary of Active and Retired Member Valuation**

Historical Comparative Schedule

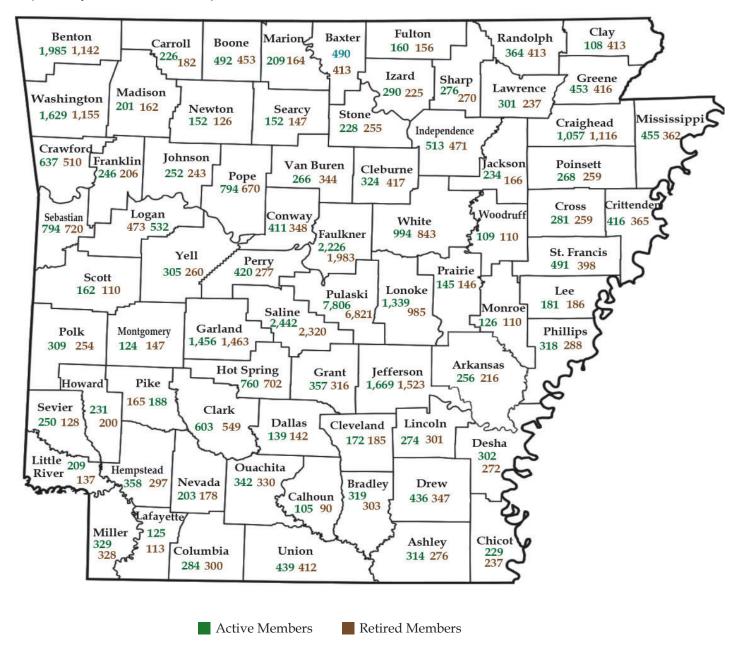
A	ctive Members	s			Retired Liv	es (including	DROP membe	rs)
			/aluation Payrol	<u> </u>			Annual I	Benefits
Valuation Date	Number	Dollars in Millions	Average	% Increase	Number	Active per Retired	Dollars in Millions	As a % of Pay
6/30/13	45,707	1,612.7	35,285	0.9	30,533	1.5	426.2	26.4
6/30/14	45,841	1,638.0	35,735	1.3	31,914	1.4	457.1	27.9
6/30/15	45,722	1,645.0	35,979	0.7	33,106	1.4	483.9	29.4
6/30/16	45,676	1,686.5	36,923	2.6	34,214	1.3	509.7	30.2
6/30/17	46,094	1,668.8	36,204	(1.9)	36,260	1.3	540.1	32.4
6/30/18	46,207	1,723.6	37,302	3.0	37,398	1.2	575.1	33.4
6/30/19	45,965	1,802.4	39,212	5.1	38,543	1.2	609.1	33.8
6/30/20	44,373	1,795.7	40,469	3.2	39,805	1.1	637.1	35.5
6/30/21	42,669	1,781.8	41,759	3.2	40,762	1.0	658.8	37.0
6/30/22	42,771	\$ 1,925.5	\$ 45,020	7.8%	41,390	1.0	\$ 671.2	34.9

The above valuation payroll results do not include DROP payroll.

# **Chart of Memberships by Type - 10 year comparison**

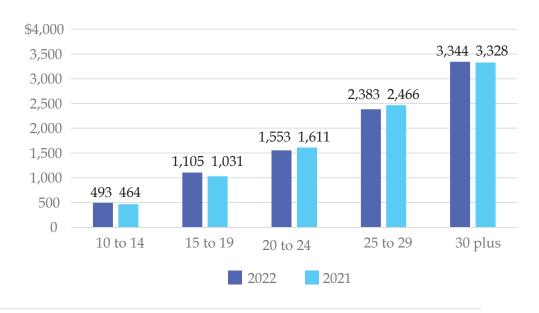


# **Comparison of Active and Retired Members by County**

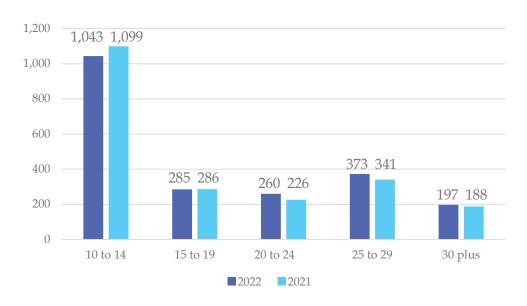


# **Comparison of Monthly Annuity by Credited Years of Service**

(in dollars for fiscal years ended June 30)



# **Comparison of New Retirees by Credited Years of Service**



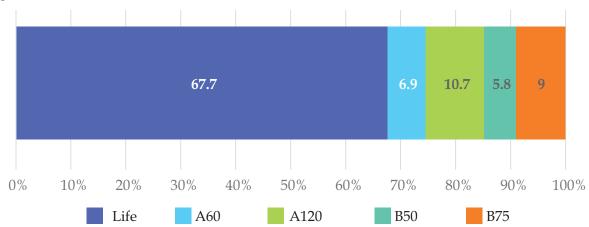
# **Schedule of Retired Members by Type of Benefit**

Type of Annuity	Number	Annual Annuities
Age & Service Retirees		
Life	22,704	\$388,175,748
Option A-60 (5 years certain)	2,304	30,836,532
Option A-120 (10 years certain)	3,579	47,243,748
Option B-50 (joint and 50% survivor)	1,949	40,948,752
Option B-75 (joint and 75% survivor)	3,007	51,971,580
Total	33,543	559,176,360
Disability Retirees		
Life	2,087	22,637,820
Option A-60	182	1,870,668
Option A-120	384	4,019,304
Option B-50	148	1,751,304
Option B-75 Total	279	2,872,536
Total	3,080	33,151,632
Beneficiaries of Age & Service Retirees		
Life	39	796,332
Option A-60	50	392,772
Option A-120	323	3,127,980
Option B-50	439	4,484,724
Option B-75	887	10,758,912
Total	1,738	19,560,720
Total Age & Service Retirees & Beneficiaries	35,281	578,737,080
Death-in-Service Beneficiaries	1,256	10,797,852
Total Death and Disability Retirees & Beneficiaries	4,336	43,949,484
QDRO Alternate Payees	316	2,601,300
Total Retirees & Beneficiaries	39,933	625,287,864
DROP Participants	1,426	45,531,888
DROP "Frozen" Participants	31	396,312
Total Including DROP Participants	41,390	\$671,216,064

# **Chart of Retired Members by Type of Benefit (Percentages)**

(for fiscal year ended June 30, 2022)

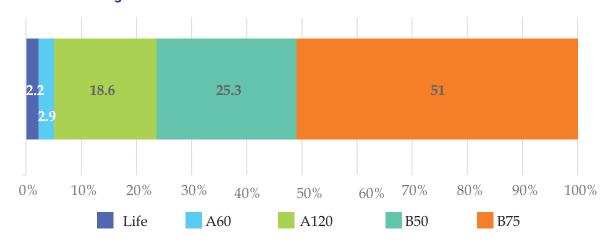
#### **Age & Service Retirees**



### **Disability Retirees**



### **Beneficiaries of Age & Service Retirees**

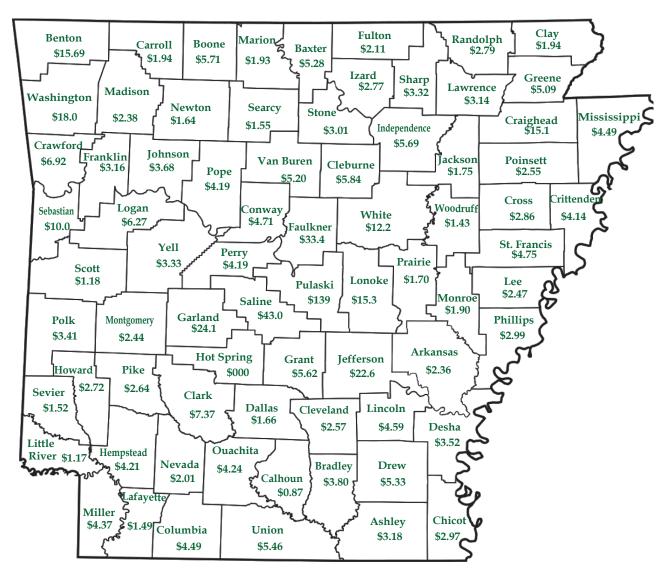


# **Schedule of Retirees and Benefits Paid by County**

County	Benefits Paid	Retirees	County	Benefits Paid	Retirees
Arkansas	\$2,362,228	216	Lee	\$2,473,955	186
Ashley	\$3,185,145	276	Lincoln	\$4,595,816	301
Baxter	\$5,281,237	413	Little River	\$1,170,469	137
Benton	\$15,688,525	1,142	Logan	\$6,273,941	473
Boone	\$5,713,080	453	Lonoke	\$15,337,808	985
Bradley	\$3,809,608	303	Madison	\$2,381,964	162
Calhoun	\$879,368	90	Marion	\$1,934,559	164
Carroll	\$1,945,789	182	Miller	\$4,377,779	328
Chicot	\$2,971,302	237	Mississippi	\$4,497,768	362
Clark	\$7,379,155	549	Monroe	\$1,904,431	122
Clay	\$1,943,410	183	Montgomery	\$2,449,114	147
Cleburne	\$5,846,596	417	Nevada	\$2,019,487	178
Cleveland	\$2,574,450	185	Newton	\$1,641,148	126
Columbia	\$4,490,538	300	Ouachita	\$4,245,009	330
Conway	\$4,714,592	348	Perry	\$4,193,412	277
Craighead	\$15,102,769	1,116	Phillips	\$2,999,576	288
Crawford	\$6,928,568	510	Pike	\$2,640,392	165
Crittenden	\$4,141,997	365	Poinsett	\$2,559,235	259
Cross	\$2,867,806	259	Polk	\$3,415,369	254
Dallas	\$1,666,791	142	Pope	\$9,607,968	670
Desha	\$3,523,003	272	Prairie	\$1,701,820	146
Drew	\$5,336,287	347	Pulaski	\$139,543,729	6,821
Faulkner	\$33,437,239	1,983	Randolph	\$2,793,063	231
Franklin	\$3,167,274	206	Saint Francis	\$4,756,966	398
Fulton	\$2,113,319	156	Saline	\$43,005,848	2,320
Garland	\$24,177,307	1,463	Scott	\$1,189,141	110
Grant	\$5,621,503	316	Searcy	\$1,559,532	147
Greene	\$5,093,595	416	Sebastian	\$10,063,999	720
Hempstead	\$4,212,034	297	Sevier	\$1,527,273	128
Hot Spring	\$9,534,017	702	Sharp	\$3,320,377	270
Howard	\$2,726,201	200	Stone	\$3,017,388	255
Independence	\$5,694,099	471	Union	\$5,469,510	412
Izard	\$2,775,114	225	Van Buren	\$5,206,720	344
Jackson	\$1,750,996	166	Washington	\$18,002,084	1,155
Jefferson	\$22,693,743	1,523	White	\$12,276,115	843
Johnson	\$3,684,553	243	Woodruff	\$1,433,375	110
Lafayette	\$1,496,618	113	Yell	\$3,339,109	260
Lawrence	\$3,149,147	237			

#### **Map of Arkansas Counties with Total Benefits Paid**

(in millions of dollars for fiscal year ended June 30, 2022)



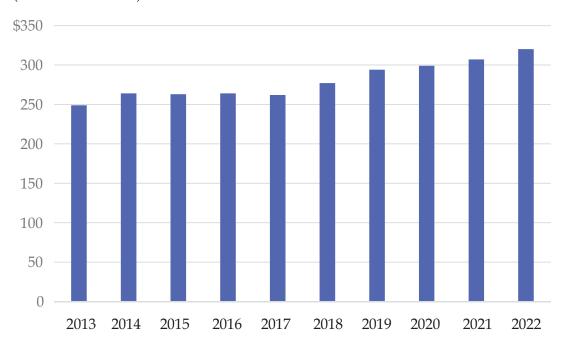
In Arkansas	
Total Payees	37,606
Total Paid	\$578,604,251
Out of State	
Total Payees	3,516
Total Paid	\$38,101,407
Totals	
Total Payees	41,122
Total Paid	\$616,705,658

# **Employers**

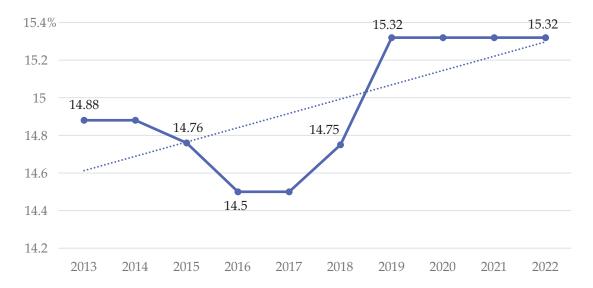
# **Chart of Employer Contributions - 10 year comparison**

(for fiscal years ended June 30)

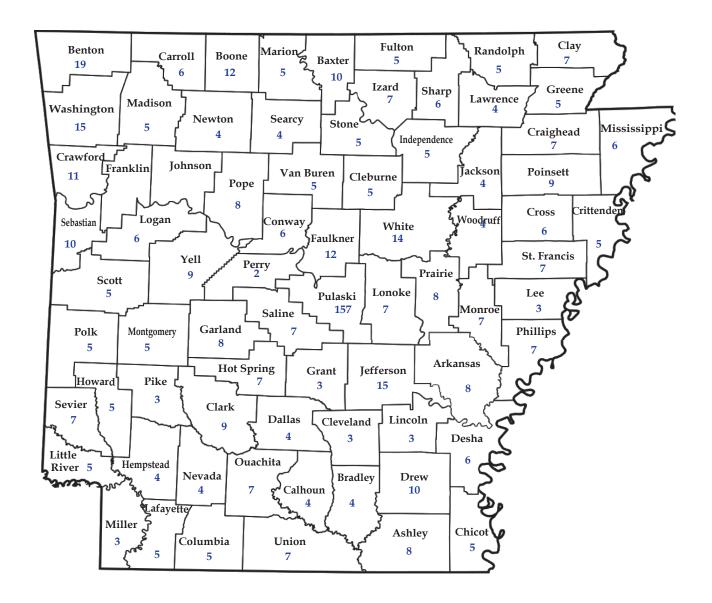
#### (shown in millions)



# **Chart of Employer Contribution Rates - 10 year comparison**



#### **Map of Participating Employers by County**



### Schedule of Participating Employers

#### **State Agencies**

10th Judicial Victim Assistance Office 15th Judicial Victim/Witness Office 21st State Judicial Drug Task Force 3rd Judicial Drug Task Force

Administrative Office of the Courts Appraisers Licensing/Certification Board

Arkansas Claims Commission Arkansas County Conserv District Arkansas Crime Info Center

Arkansas Development Finance Authority Arkansas Disability Determination For SSA Arkansas Economic Development Commission

Arkansas Employment Security Division

Arkansas Ethics Commission Arkansas Game & Fish Commission Arkansas Geological Commission Arkansas Lottery Commission

Arkansas Minority Health Commission Arkansas Motor Vehicle Commission Arkansas Public Defender Commission

Arkansas Public Employees Retirement System

Arkansas Real Estate Commission Arkansas School for the Blind Arkansas School for the Deaf Arkansas Securities Department Arkansas State Board of Accountancy Arkansas State Board of Pharmacy Arkansas State Board of Optometry

Arkansas State Library Arkansas State University

Arkansas State University at Beebe Arkansas Technical University Arkansas Waterways Commission Arkansas Towing & Recovering Board Arkansas Veteran's Child Welfare Service

Arkansas Northeastern College

Arkansas Tobacco Settlement Commission

Arkansas Athletic Commission Arkansas Board of Parole

Arkansas Department of Agriculture Arkansas Sentencing Commission Ashley County Conservation District Assessment Coordination Department

ASU-Newport Attorney General

Auctioneers Licensing Board

Auditor of State

**Baxter County Conservation District** 

**Board of Barber Examiners** Board of Collection Agencies Board of Examiners in Speech, Language, and Audio

Board of Examiners in Counseling Benton County Conservation District Black River Technical College Boone County Conservation District

**Buffalo Conservation District** 

Calhoun County Conservation District Capitol Zoning District Commission Carroll County Conservation District Chicot Coounty Conservation District Clark County Conservation District Clay County Conservation District Cleburne County Conservation District Columbia County Conservation District

Commissioner of State Lands Constitutional Officers Contractors Licensing Board

Conway County Conservation District Cossatot Community College of U of A

Cossatot Conservation District

Court of Appeals

Craighead County Conservation District Crawford County Conservation District

Crime Lab

Crittenden County Conservation District Crooked Creek Conservation District Cross County Conservation District Dallas County Conservation District

Department of Agriculture Department of Commerce Department of Correction Department of Education Department of Energy

Department of Finance and Administration

Department of Health

Department of Human Services Department of Inspector General

Department of Labor

Department of Parks and Heritage Department of Public Safety Department of the Military Department of Transformation Department of Veterans Affairs Department of Arkansas Heritage

Department of Corrections

Department of Finance & Administration

Department of Higher Education Department of Human Services

Department of Labor

Department of Veterans Affairs

#### **Statistical**

Department of Community Correction Department of Emergency Management Department of Envionmental Quality Department of Information Systems Deputy Prosecuting Attorney

Desha County Conservation District

Disabled Veterans Service District Judge Pilot Division of Aeronautics

Drew County Soil & Water Conservation District

Drug Task Force 13th Judicial District Drug Task Force 14th Judicial District Drug Task Force 15th Judicial District Drug Task Force 5th Judicial District

Drug Task Force-Batesville

Drug Task Force 10th Judicial District East State Arkansas Community College Educational Television Commission Faulkner County Conservation District

Fire Protection Licensing Board First State Judicial Drug Task Force Franklin County Conservation District Fulton County Conservation District Garland County Conservation District General Assembly House-Regular General Assembly Senate-Regular General Assembly - Senate

Governor's Office

Greene County Conservation District Health Services Permit Agency

Hearing Instrument Dispensers Board Hempstead County Conservation District

Henderson State University

Geographic Information Office

Home Inspector Registration Board Hot Springs County Conservation District

House, Speaker's Office

Independence County Conservation District

Insurance Department

Izard County Conservation District Jackson County Conservation District Jefferson County Conservation District Johnson County Conservation District

Jud Discipline & Disability Co Lafayette Conserv District

Law Enforce Standards & Training Division Lawrence County Conservation District

Lee County Conservation District

Legislative Audit Division

Legislative Council / Local Affairs

Lieutenant Governor

Lincoln County Conservation District Liquified Petroleum Gas Division Logan County Conservation District Lonoke County Conservation District Madison County Conservation District Martin Luther King, Jr. Commission

Manufactued Home Commission/ Mobile Home Std

Mine Creek Conservation District

Mississippi County Conservation District Monroe County Conservation District Montgomery County Conservation District

National Park Community College Nevada County Conservation District Newton County Conservation District

North Arkansas College

Northwest State Arkansas Community College

Office of Medicaid Inspector General

Oil & Gas Commission

**Ouachita Conservation District** 

Ouachita Vo-Tech/College of the Ouachitas

Ozarka Technical College

Parks & Tourism

Phillips County Conservation District Phillips Community College - U of A Pike County Conservation District Poinsett County Conservation District Pope County Conservation District Poteau River Conservation District Prairie County Conservation District

Professional Bail Bondsman Licensing Board

Prosecuting Attorney Prosecutor Coordinator Public Service Commission Pulaski Conservation District Pulaski Technical College

Randolph County Conservation District Rich Mountain Community College Rich Mountain Conservation District South Arkansas Community College Sebastian County Conservation District

Secretary of State Senate Clerk

Sharp County Conservation District

Social Work Licensing Board Soil & Water Conservation South Central Drug Task Force

Southeast State Arkansas Technical College

Southern Arkansas University Southern Arkansas University Tech

Spinal Cord Commission

State Board Election Commission

State Board of Architects

State Board of Chiropractic Exam State Board of Dental Examiners State Board of Dispensing Opticians State Board of Examiners in Psychiatry

State Board of Nursing

State Board of Physical Therapy

State Board of Licening for Professional Engineers

State Dietetics Licensing Board

State Medical Board

State Francis County Conservation District

State Bank Department

State Board of Veterinary Examiners

State Capitol Police

State Military-Civilian Firefighters

State Military Department State Police (Non-Troopers)

State Treasurer

State: Constitutional State Officers Sub-Division

State: Governors Sub-Division Statewide Shared Services

Stone County Conservation District

Supreme Court

Supreme Court of Arkansas

Twentieth (20th) Judicial District Drug Task Force

U of A at Fayetteville

U of A Community College at Hope U of A Community College at Morrilton

U of A Medical Sciences

U of A Community College at Batesville U of A Cooperative Extension Service

**UALR Human Resources** 

Union County Conservation District University of Arkansas at Monticello University of Arkansas at Pine Bluff University of Central Arkansas University of Arkansas at Ft. Smith Van Buren County Conservation District

Vocation & Technical Education

Washington County Conservation District White County Conservation District Workers' Compensation Commission Yell County Conservation District

#### **County Agencies**

Arkansas River Valley Regional Library

Arkansas County Ashley County

Association of Arkansas Counties

**Baxter County** 

**Baxter County Library** 

Benton County Boone County Bradley County Calhoun County Carroll County Chicot County Clark County

Clay County

Clay County, Western District

Cleburne County Cleveland County Columbia County Conway County Craighead County Crawford County Crittenden County Cross County Dallas County Desha County

Drainage District # 9 (Gr. Lake)

Drew County

East Central Arkansas Regional Library

Faulkner County
Franklin County
Fulton County
Garland County
Grant County
Greene County
Hempstead County
Hot Springs County
Howard County

Independence County Izard County

Jackson County
Jefferson County
Johnson County
Lafayette County
Lawrence County
Lee County
Lincoln County
Little River County
Logan County
Lonoke County
Madison County
Marion County

#### **Statistical**

Miller County

Mississippi County

Monroe County

Montgomery County

Nevada County

Newton County

**Ouachita County** 

Perry County

Phillips County

Phillips County Library

Pike County

Poinsett County

Polk County

Pope County

**Prairie County** 

Pulaski County

Randolph County

Randolph County Nursing Home

Saline County

Saline County Library

Scott County

Searcy County

Sebastian County Judge

Sevier County

Sharp County

St Francis County

Stone County

**Union County** 

Van Buren County

Washington County

White County Public Library

White County

White River Regional Library

Woodruff County

Yell County Library

Yell County

#### **Municipal Agencies**

Alma Water & Sewer Department

Arkansas Municipal League

Arkansas City

Batesville Waterworks

Bradford Water & Sewer

Brinkley Municipal Water & Sewer Department

Caddo Valley

Camden Water & Utilities

Cammack Village

Cave City

Central Arkansas Water

City of Alexander

City of Alma

City of Arkadelphia

City of Ash Flat

City of Ashdown

City of Augusta

City of Austin

City of Batesville

City of Beebe

City of Bentonville

City of Biscoe

City of Bono

City of Bradford

City of Brinkley

City of Bryant

City of Cabot

City of Calico Rock

City of Carlisle

City of Cave Springs

City of Cedarville

City of Centerton

City of Charleston

City of Cherry Valley

City of Clarksville

City of Clinton

City of Corning

City of Cotter

City of Crawfordsville

City of Crossett

City of Dardanelle

City of Decatur

City of Des Arc

City of Dewitt

City of Dierks

City of Dover

City of Elm Springs

City of England

City of Eudora

City of Farmington

City of Flippin

City of Fordyce

City of Foreman City of Mountain View Water & Sewer Commission City of Gassville City of Murfreesboro City of Nashville City of Gentry City of Goshen City of Norman City of Gravette City of Ola City of Green Forest City of Pangburn City of Greenbriar City of Paragould City of Greenland City of Paris City of Greers Ferry City of Perryville City of Hackett City of Piggott City of Hamburg City of Plummerville City of Hampton City of Pottsville City of Hardy City of Prairie Grove City of Harrisburg City of Prescott City of Harrison City of Quitman City of Haskell City of Ravenden City of Hazen City of Rector City of Heber Springs City of Rison City of Helena-West Helena City of Rogers City of Hope City of Russellville City of Horatio City of Salem City of Hot Springs City of Scranton City of Huntington City of Searcy City of Huntsville City of Shannon Hills City of Sheridan City of Huttig City of Jacksonville City of Shirley City of Jasper City of Smackover City of Stamps City of Junction City City of Kibler City of Strong City of Knoxville City of Stuttgart City of Summit City of Lamar City of Lavaca City of Van Buren City of Lepanto City of Vilonia City of Leslie City of Viola City of Lewisville City of Waldron City of Ward City of Lincoln City of Lockesburg City of Warren City of Lowell City of West Fork City of Magnolia City of Western Grove City of Malvern City of Wilmar City of Wynne City of Mammoth Springs City of Yellville City of Marked Tree City of Marshall Clinton Water & Sewer City of Marvell Crossett Public Library City of Mcrae **Crossett Water Commission** City of Melbourne El Dorado Water & Sewer City of Mena Fordyce Water Department Forrest City City of Monette City of Monticello Forrest City Water Utility City of Morrilton Fort Smith Public Library City of Mount Ida Harrisburg Water & Gas Division Hope Water & Light Company City of Mountain Home Hot Springs Advertising & Promotions Commission City of Mountain Pine

City of Mountain View

Huntsville Water & Sewer Commission

#### **Statistical**

Jacksonville Wastewater Utility
Jacksonville Water Commission
Little Rock Wastewater Utility
Malvern Waterworks
McGehee Water & Sewer
Mena Water & Sewer
Mount Pleasant Water Department

North Little Rock Advertising & Promotions Com.

Pangburn Water Dept
Piggott Light & Water Sy

Piggott Light & Water System

Rogers Water Utilities

Star City

Star City Water & Sewer

Stuttgart-North Arkansas County Library

Town of Emerson Town of Fountain Hill Town of Highfill Town of Imboden

Van Buren Municipal Utilities Vilonia Waterworks Association

Warren Water & Sewer Wynne Water Utilities

#### **Schools**

Arkadelphia School District #1
Atkins School District #18
Bald Knob School District
Benton School District #8
Bergman School District #3
Booneville School District #65
Clarksville School District #17
Cossatot River School District
Des Arc School District #5
Fairview School District
Fayetteville School District #1
Forrest City School District
Fort Smith School District
Greenwood School District #25
Helena-West Helena School District #2

Hope School District #1a Horatio School District #55 Hot Springs School District Jonesboro Public Schools Lee County School District Little Rock School District McCrory Public Schools

Mountain Home School District #9 North Little Rock School District

Pine Bluff Schools

Pottsville School District #61

Pulaski County Special School District

Russellville School District #14 Searcy County School District Sheridan School District #37 Siloam Springs School District #21 South Conway County School District Two Rivers School Districtrict Van Buren School District #42 Waldron School District Warren School District #1

#### **District Judges**

ADJRS Pilot Brinkley District Court Little Rock District Court

#### **District Court Employees\***

Alpena District Court

Berryville District Court Blytheville District Court Booneville District Court Camden District Court Cherokee Village District Court Clarendon District Court Conway District Court Dequeen District Court **Dermott District Court** Devalls Bluff District Court **Dumas District Court** East Camden District Court Elkins District Court Eureka Springs District Court Fayetteville District Court Fort Smith District Court Lake Village District Court Little Rock District Court Lonoke District Court Marion District Court Maumelle District Court McCrory District Court McGehee District Court Newport District Court North Little Rock District Court Osceola District Court Pine Bluff District Court Sherwood District Court Siloam Springs District Court Springdale District Court Texarkana District Court Trumann District Court Tyronza District Court

West Memphis District Court

Wrightsville District Court

<sup>\*</sup>Employer doesn't participate in APERS with the exception of the district court judge and/or court clerk.

#### **Other Non-State Employers**

Alpine Public Water Authority

Benton County Solid Waste District

Boone County Airport

Boston Mountain Solid Waste

Buffalo Island Regional Water

Blytheville-Gosnell Regional Airport Authority

Clark County Water Facility

**Fulton County Water Authority** 

Hardin Public Water Authority

Highway 71 Water District

Hot Spring County Solid Waste Management

James Fork Regional Water District

Kimzey Regional Water District

Little River RDA Water System

Madison County Water Facility

Magnet Butterfield Water

Milltown-Washburn Water Users

Montgomery County Regional Public Water Authority

Northeast Arkansas Regional Solid Waste Management

Nevada County-Prescott Solid Waste

North Garland County Regional Water District

Northeast Public Water Authority

Paragould Housing Authority

Paron-Owensville Water Authority

Pulaski Area Geographic Information Systems

Pulaski County Solid Waste Management

Riversouth Rural Water District

Saline County Regional Solid Waste Management

Sardis Water Association

Southeast White County Water Authority

South Bend Fire District 10

Southwest Boone County Water Association

Southwest White County Water Association

Texarkana Regional Airport

Upper Southwest Arkansas Solid Waste Management

Washington Water Authority

Watson Chapel Public Water

