

PUBLIC EMPLOYEES' RETIREMENT SYSTEM OF NEVADA

**A COMPONENT UNIT of
the STATE of NEVADA**

THE ANNUAL COMPREHENSIVE FINANCIAL REPORT

**For the Fiscal Year Ended
June 30, 2021**

**Tina Leiss
Executive Officer**

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www.nvpers.org



Prepared by PERS Staff

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MISSION STATEMENT

It is the mission of the Public Employees' Retirement System to:

- ◆ Provide public workers and their dependents with a retirement program that provides a reasonable base income for retirement or for periods where a disability has removed a worker's earning capacity.
- ◆ Encourage those workers to enter into and remain in government service for such periods of time to give public employers and the people of the State of Nevada the full benefit of their training and experience.
- ◆ Provide an orderly method of promoting and maintaining a high level of service to the public through an equitable separation procedure available to employees at retirement or upon becoming disabled.

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INTRODUCTORY SECTION

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Retirement Board

Timothy M. Ross
Chair
Yolanda T. King
Vice Chair

Dawn E. Huckaby
Todd H. Ingalsbee
Norma Santoyo
Mark Stevens
Brian A. Wallace



Executive Staff

Tina Leiss
Executive Officer

Kabrina Feser
Operations Officer

Steve Edmundson
Chief Investment
Officer

December 1, 2021

Dear Chair and Members of the Board:

It is a pleasure to present the Annual Comprehensive Financial Report (ACFR) of the Public Employees' Retirement System of Nevada (System or PERS), a component unit of the State of Nevada, for the fiscal year ended June 30, 2021.

The financial statements included in this report are the responsibility of the System's management and have been prepared in accordance with generally accepted accounting principles as promulgated or adopted by the Governmental Accounting Standards Board (GASB). In management's opinion, the financial statements present fairly the fiduciary net position of the System at June 30, 2021, and changes in fiduciary net position for the year then ended.

The System was established by the Nevada Legislature in 1947. By July 1, 1949, the System had approximately 3,000 members and 64 retirees. At the end of fiscal year 2021, the System had 214 participating employers, 106,930 active members, and 75,955 benefit recipients. The System is comprised of two sub-funds, Regular, consisting of members who are not police or fire employees, and Police and Firefighters (Police/Fire). The Regular sub-fund was established to provide retirement, disability, and survivor benefits for public employees with the exception of those who are police officers or firefighters. The Police/Fire sub-fund was established to segregate accounting for retirement and survivor benefits related to members who are police officers or firefighters. All services provided by staff are performed in order to meet those objectives. For more specific information on plan provisions, please refer to the Plan Summary, beginning on page 161.

Included in the Financial Section of this ACFR, beginning on page 24, is the Management's Discussion and Analysis (MD&A). Users of the financial statements are encouraged to review the MD&A, which contains a statement overview, highlights for the year, and a short analysis of the financial statements comparing the current and previous year.

We hope that you and the members of the System will find this ACFR helpful in understanding your public employees' retirement system.

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INTRODUCTORY SECTION

Major Initiatives

Legislation

The Nevada Legislature convenes on a biennial basis in odd-numbered years. During the interim between legislative sessions, PERS worked with legislative staff on pension-related issues. Following the 2021 legislative session, the Public Employees' Retirement Board (Retirement Board or Board) continues to review the System's Official Policies and make necessary modifications to ensure compliance with applicable law. Assembly Bill 479 was the only legislation passed in the 2021 legislative session that directly affected PERS. This bill created a second investment position within the executive staff of the System.

System Governance

The System's existing governance principles, policies, and charters define the role of the Retirement Board and executive management, guide the conduct and decision-making of the Retirement Board, and document and preserve the System's policies.

Managing the funding issue internally to PERS is paramount to overall success of the System. Contribution rate stability and responsible funding are key goals of the System. The System continually reviews trends in actuarial liabilities and maintains a realistic recognition of plan costs in order to govern the plan in a fiscally sound manner. Staff will work to manage expectations of stakeholders and other interested parties on funding issues and contribution rates through continued public relations outreach and education regarding the financing and management of the System.

A positive, open working relationship promotes sound fiduciary administration of the trust. All parties work together for the exclusive benefit of the members and beneficiaries of the System and Board governance practices promote this directive. Adhering to the responsibilities of the charters for the Board, Board Chair, and Executive Officer lay the framework for success, defining the objectives of each. Executive staff keeps Board members abreast of issues affecting the System both in the State and on a national level. Communication is designed to be helpful, organized and not overwhelming to assist the Board in the discharge of fiduciary duties by ensuring pertinent information is delivered in a timely and coherent fashion.

The System shall maintain effective internal controls over financial reporting and observe the highest standards in financial reporting. Staff will continue to diligently monitor and update internal controls as necessary as well as continue to evaluate enterprise-wide risk through an assessment process. The System will continue to maintain the standards necessary to receive the Public Pension Coordinating Council award in recognition of meeting professional standards for plan design and administration as set forth in the Public Pension Standards, the Government Finance Officers Award (GFOA) for excellence in financial reporting for the Annual Comprehensive Financial Report, and the Government Finance Officers Award (GFOA) for excellence in financial reporting for the Popular Annual Financial Report.

Information Technology

The IT department is dedicated to maintaining an efficient pension management system that can provide for all operational needs. Technology efforts are driven by business goals as well as statutory and pension fund industry mandates. During the last fiscal year, the System worked with a project manager and data conditioning vendor to assist with the initiation of a new Pension Administration System. The System completed the vendor selection and contract process in fiscal year 2021 allowing for the formal initiation of the new Pension Administration System project in early fiscal year 2022. Employer Advisory Group meetings continued this past year to communicate upcoming changes in preparation of the new Pension Administration System.

Strategic Planning

Annually, PERS' executive staff reviews the System's strategic plan for updates, including both additions and deletions. The Strategic Plan covers a five-year period and is updated annually by the Executive Officer in consultation with the Board. Strategic Plan revisions are prepared in conjunction with the Operational Yearly Plan and management plans for the individual departments. The Operational Yearly Plan supports the Strategic Plan by setting forth the business plan for the System for the year.

Summary of Financial Information

The System's management is responsible for maintaining internal controls designed to provide reasonable assurance that transactions are executed according to management's authorization, recorded to maintain accountability for assets, and to allow the preparation of financial statements in accordance with generally accepted accounting principles. The internal controls include written policies and procedures and are reviewed periodically by the System's internal audit staff and independent auditors.

Internal control over financial reporting cannot provide absolute assurance of achieving financial reporting objectives because of its inherent limitations. Because the cost of the control should not exceed the benefits to be derived, the objective is to provide reasonable, rather than absolute assurance, that the financial statements are free of any material misstatements. Internal control over financial reporting is a process that involves human diligence and compliance and is subject to lapses in judgment and breakdowns resulting from human failures. Internal control over financial reporting also can be circumvented by collusion or improper management override. Because of such limitations, there is a risk that material misstatements may not be prevented or detected on a timely basis by internal control over financial reporting. However, these inherent limitations are known features of the financial reporting process. Therefore, it is possible to design into the process safeguards to reduce, though not eliminate, this risk. We believe our internal control structure considers these risks and that we maintain a system of internal controls designed to provide reasonable assurance that assets are properly safeguarded, transactions are properly executed, and financial statements are reliable. The valuation of costs and benefits requires estimates and judgments by management.

The Retirement Act requires a biennial financial audit of the System by a certified public accountant. The Board chooses to conduct such audits on an annual basis, rather than biennially, to ensure the System's financial statements are fairly presented, in all material respects, in accordance with generally accepted accounting principles. The System is also required by statute to submit a biennial budget proposal to the Budget Division of the State of Nevada, which must be incorporated with the State Executive Budget and approved by the Nevada Legislature.

INTRODUCTORY SECTION

Funding

The System's basic funding policy provides for periodic contributions at a level pattern of cost as a percentage of salary throughout an employee's working lifetime in order to accumulate sufficient assets to pay benefits when due. Although the System receives an annual actuarial valuation indicating the contribution rates required to fund the System on an actuarial reserve basis, contributions actually made are in accordance with the rates derived from the actuarial rates and then rounded according to statute.

The actuarial funding method used is the Entry Age Normal Cost Method. This method is used to calculate liabilities using a year-by-year closed amortization period where each amortization period is set at 20 years, in addition to using other significant actuarial assumptions detailed beginning on page 99. Plan rates in effect for the year ended June 30, 2021, are presented on page 36 in the Financial Section of this report. In addition, Required Supplementary Information on pages 53-70 show changes in employers' net pension liability, related ratios, and ten-year schedules of employer contributions and the money-weighted rate of return on investments. The ten-year schedules of funding progress are on page 124 of the Actuarial Section. The actuarial funded ratio for all members is 75.4% in 2021, a decrease from 76.1% in fiscal year 2020.

Investments

Investment performance plays an important role in the System's ability to provide retirement benefits to its members. The Board's investment philosophy centers on time tested investment principles and efficient, cost-effective portfolio management.

The investment portfolio is designed to meet the funding objectives of the System while taking the least possible risk. Investment of the System's assets is governed by the prudent person standard. This standard states that the Board may invest the System's funds in every type of investment which persons of prudence, discretion, and intelligence acquire or retain for their own account.

The System's investment portfolio is well diversified by asset class, investment structure, and individual security. In fact, the System's portfolio currently holds over 1,500 individual securities from 23 different countries. The Board uses these portfolio components to maintain strict control of the fund's risk/return profile.

Asset allocation is the most significant factor influencing the risk and return of the investment program. Since inception, more than 90% of the System's investment performance is explained by asset allocation. Determination of the fund's long-term asset allocation involves estimating the expected return and risk of major types of investments and blending them into a portfolio which meets the System's risk/return objectives.

The fair value of the System's investment assets at the end of fiscal year 2021 was \$57.5 billion. The portfolio return objective includes a premium over the Consumer Price Index (CPI). The System's investment return objective over calculated CPI in fiscal year 2021 was 10.1%. The System's total return (gross of fees) on investments for that same time period was 27.3%, which includes both realized and unrealized gains. Fiscal year 2021 investment performance was primarily driven by strong returns from U.S. Stocks, International Stocks and Private Markets.

The fund's annualized rate of return (gross of fees) is 9.8% since inception (37 years) exceeding the long-term actuarial funding objective. The fund is competitive on a risk-adjusted basis, ranking in the top 10% of large public funds for that same time frame. The investment section, beginning on page 75, addresses specific activity and results in the portfolio.

GFOA Certificate of Achievement

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the System for its comprehensive annual financial report for the fiscal year ended June 30, 2020 (see page 16). This was the 32nd consecutive year the System achieved this prestigious award.

In order to be awarded a Certificate of Achievement, a government unit must publish an easily readable and efficiently organized annual comprehensive financial report. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. We believe our current report continues to meet the Certificate of Achievement Program requirements and are submitting it to the GFOA for consideration again this year.

PPCC Award

The Public Pension Coordinating Council awarded the Public Pension Standards Award to the System for the fiscal year ended June 30, 2021 (see page 17). The award is designed to commend public employee retirement systems for implementing and maintaining high professional standards. PERS has received the award every year it has been offered.

Professional Services

Professional consultants are hired to perform services essential to the efficient operation of the System. The Independent Auditor's Report, Consultant's Report of Investment Activity, and the actuary's certifications are included in this report. The System's consultants are listed on pages 14 and 76.

Acknowledgements

This report reflects the combined effort of the System's administrative staff. It is intended to provide both complete and reliable information as a basis for making management decisions, determining compliance with legal provisions, and determining the responsible stewardship of assets contributed by the members and their employers.

I would like to express my appreciation to the staff, consultants, Board, and other associates whose efforts ensured the successful operation of the System in 2021.

Respectfully submitted,



Tina Leiss
Executive Officer

INTRODUCTORY SECTION

ADMINISTRATIVE PERSONNEL

Current

PUBLIC EMPLOYEES' RETIREMENT BOARD

Timothy Ross	Chair	2022
Yolanda T. King	Vice Chair	2025
Dawn E. Huckaby	Member	2022
Todd H. Ingalsbee	Member	2023
Norma Santoyo	Member	2021
Mark Stevens	Member	2023
Brian A. Wallace	Member	2025

Terms expire on June 30 of year noted.

RETIREMENT STAFF

Tina Leiss	Executive Officer
Steve Edmundson	Chief Investment Officer
Lauren Larson	Deputy Investment Officer
Kabrina Feser	Operations Officer
John Van Horn	Chief Financial Officer
Christopher Nielsen	General Counsel
Teresa Chalmers	Administrative Analyst

DIVISION SUPERVISORS

Ramon Chavez	Accounting
Carrie Harrison	Employer, Production & Pension Services
Charlie Park	Information Technology
Julie Spaletta	Internal Audit
Felicia King	Member & Retiree Services
Walter Zeron	Support Services

MEDICAL ADVISORS

Robert Fliegler, M.D., Carson City, Nevada
Terry Long, RN, Carson City, Nevada

POLICE AND FIREFIGHTERS' RETIREMENT FUND ADVISORY COMMITTEE

Scott Vivier	Chair	2023
Cameron Wagner	Vice Chair	2024
Jennifer Wyatt	Member	2023
Scott Nicholas	Member	2022
Bill Gardner	Member	2024

Terms expire on June 30 of year noted.

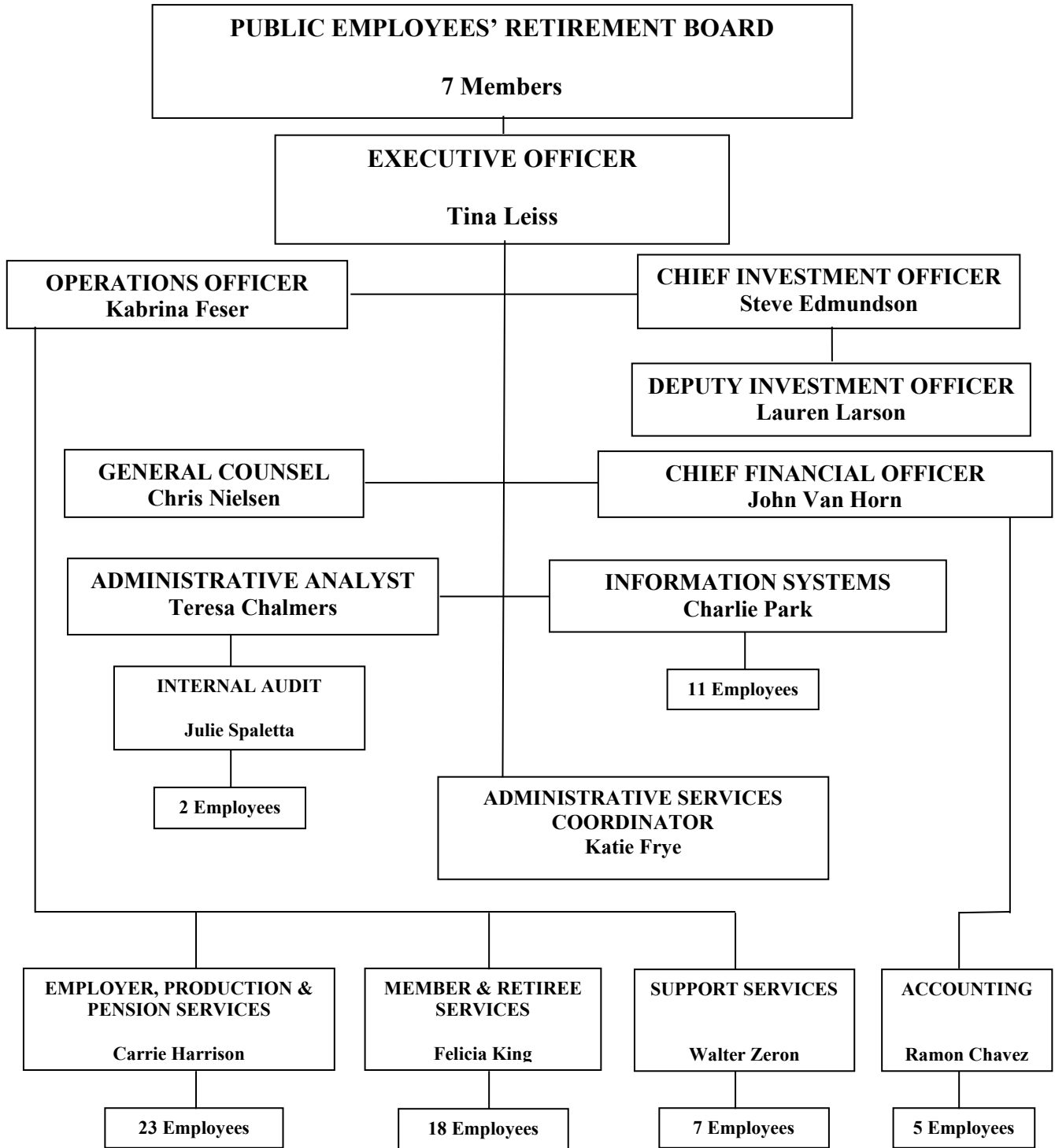
THE SYSTEM'S ADVISORS

Consulting Actuary – Segal, San Francisco, California
Independent Auditors – Macias Gini & O'Connell LLP, Sacramento, California
CliftonLarsonAllen LLP, Baltimore, Maryland
Investment Consultants – Callan Associates, San Francisco, California
Jobs Peak Advisors, Minden, Nevada

Note: A list of investment professionals who provide services to PERS can be found on page 76. A schedule of fees and commissions paid to investment professionals can be found on pages 89- 91.

ORGANIZATIONAL CHART

Current





Government Finance Officers Association

Certificate of
Achievement
for Excellence
in Financial
Reporting

Presented to

Public Employees' Retirement System of Nevada

For its Comprehensive Annual
Financial Report
For the Fiscal Year Ended

June 30, 2020

Christopher P. Morill

Executive Director/CEO



Public Pension Coordinating Council

***Public Pension Standards Award
For Funding and Administration
2020***

Presented to

Public Employees' Retirement System of Nevada

In recognition of meeting professional standards for
plan funding and administration as
set forth in the Public Pension Standards.

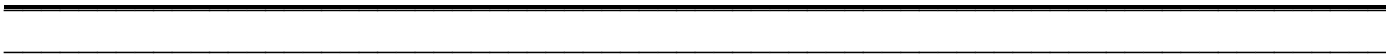
Presented by the Public Pension Coordinating Council, a confederation of

National Association of State Retirement Administrators (NASRA)
National Conference on Public Employee Retirement Systems (NCPERS)
National Council on Teacher Retirement (NCTR)

A handwritten signature in cursive script that reads "Alan H. Winkle".

Alan H. Winkle
Program Administrator

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FINANCIAL SECTION

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Certified
Public
Accountants

Independent Auditor's Report

Public Employees' Retirement Board
of the State of Nevada
Carson City, Nevada

Report on the Financial Statements

We have audited the accompanying financial statements of the Public Employees' Retirement System of Nevada (the System), a component unit of the State of Nevada, as of and for the year ended June 30, 2021, and the related notes to the financial statements, which collectively comprise the System's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

The System's management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the fiduciary net position of the System as of June 30, 2021, and the changes in its fiduciary net position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

FINANCIAL SECTION

Emphasis of Matter

As discussed in Note 7 to the financial statements, the total pension liability for the System, based on the actuarial valuation as of June 30, 2021, exceeded the System's fiduciary net position by \$9.1 billion. The actuarial valuation is very sensitive to the underlying assumptions, including a discount rate of 7.25 percent, which represents the long-term expected rate of return. Our opinion is not modified with respect to this matter.

Other Matters

Prior-Year Comparative Information

The financial statements include partial prior-year comparative information. Such information does not include all of the information required to constitute a presentation in conformity with accounting principles generally accepted in the United States of America. Accordingly, such information should be read in conjunction with the System's financial statements for the year ended June 30, 2020, from which such partial information was derived.

We have previously audited the System's 2020 financial statements, and we expressed an unmodified opinion on the financial statements in our report dated December 2, 2020. In our opinion, the partial comparative information presented herein as of and for the year ended June 30, 2020, is consistent, in all material respects, with the audited financial statements from which it has been derived.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis, the schedule of changes in net pension liability and related ratios, the schedule of employer contributions and the schedule of investment returns, as listed in the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the System's basic financial statements. The other supplementary information, as listed in the table of contents, and the introductory, investment, actuarial, statistical and plan summary sections are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The other supplementary information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the other supplementary information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introductory, investment, actuarial, statistical, and plan summary sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on them.

Macias Gini & O'Connell LLP

Sacramento, California
December 1, 2021

MANAGEMENT'S DISCUSSION AND ANALYSIS

This Management's Discussion and Analysis (MD&A) of the financial performance of the Public Employees' Retirement System of Nevada (System or PERS) provides an overview of the System's financial activities for the year ended June 30, 2021. The MD&A is designed to focus on comparative analysis of the last two years, current year's activities, resulting changes, and currently known facts. Readers are encouraged to consider the information presented in conjunction with the financial statements as a whole, which follow the MD&A.

The System is responsible for administering retirement, disability, and survivor benefits for Regular members (consisting of employees within the State of Nevada and local governments which include schools, counties, cities, special districts, etc.) as well as Police/Fire members throughout the state.

Overview of Basic Financial Statements

The basic financial statements consist of: (1) the Statement of Fiduciary Net Position, (2) the Statement of Changes in Fiduciary Net Position, and (3) the Notes to the Financial Statements. Required Supplementary Information and Other Supplementary Information are also presented.

The **Statement of Fiduciary Net Position** includes all of the System's pension trust fund assets, liabilities, and the net position at the end of the fiscal year.

The **Statement of Changes in Fiduciary Net Position** reports additions to and deductions from the pension trust fund during the fiscal year presented. Over time the increase or decrease in net position serves as a useful indicator of the health of the System's financial position.

The **Notes to the Financial Statements** provide additional information that is required by generally accepted accounting principles.

The **Required Supplementary Information** following the notes to the financial statements consists of schedules and related notes pertaining to changes in employers' net pension liability, employers' contributions, investment returns, and actuarial assumptions. These schedules are intended to provide additional information useful in evaluating the condition of the defined benefit pension plan.

Other Supplementary Information details administrative expenses, investment expenses, consultant and professional service expenses, in addition to Schedules of Fiduciary Net Position and Changes in Fiduciary Net Position broken down between Regular and Police/Fire members.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Financial Highlights

As of and for the Years Ended June 30
(in millions)

	2021	2020
Total investments	\$ 57,468.7	\$ 45,668.3
Net investment income	12,602.1	3,137.5
Contributions	2,173.8	2,157.3
Benefit payments	3,008.6	2,805.0
Refunds of contributions	30.3	29.5
Transfers of contributions	4.4	-
Administrative expenses	12.5	12.4
Plan fiduciary net position	\$ 58,458.5	\$ 46,735.1
Plan fiduciary net position as % of total pension liability	86.5%	77.0%

Total pension liability as of June 30, 2021, was \$67,577,781,457.

Financial Analysis

The fair value of investments for fiscal year 2021 increased by 25.8% to \$57,468.7 million from \$45,668.3 million in 2020. Investment income for 2021 was \$12,602.1 million. The PERS investment program returned 27.3% (time-weighted, gross of fees) in fiscal year 2021. The 9.8% annualized time-weighted (gross of fees) return since inception (37 years) exceeds the actuarial objective.

FINANCIAL SECTION

MANAGEMENT'S DISCUSSION AND ANALYSIS

The following are summary comparative statements of the System.

CONDENSED STATEMENT OF FIDUCIARY NET POSITION

	As of June 30, 2021	As of June 30, 2020	Increase/ (Decrease) from 2020 to 2021	Percentage Increase/ (Decrease) from 2020 to 2021
Cash and cash equivalents	\$ 705,534,396	\$ 773,941,346	\$ (68,406,950)	(8.8) %
Receivables	346,318,623	314,036,519	32,282,104	10.3
Pending trades receivable	719,321,011	599,026,854	120,294,157	20.1
Investments, at fair value	57,468,665,112	45,668,267,819	11,800,397,293	25.8
Collateral on loaned securities, at fair value	174,487,304	205,982,715	(31,495,411)	(15.3)
Property and equipment, net	5,148,672	3,873,113	1,275,559	32.9
Other assets	4,769,353	4,131,236	638,117	15.4
Total assets	<u>59,424,244,471</u>	<u>47,569,259,602</u>	<u>11,854,984,869</u>	24.9
Accounts payable and accrued expenses	39,503,999	21,062,690	18,441,309	87.6
Pending trades payable	751,768,813	607,096,841	144,671,972	23.8
Obligations under securities lending activities	174,487,304	205,982,715	(31,495,411)	(15.3)
Total liabilities	<u>965,760,116</u>	<u>834,142,246</u>	<u>131,617,870</u>	15.8
Net position restricted for pension benefits	<u>\$ 58,458,484,355</u>	<u>\$ 46,735,117,356</u>	<u>\$ 11,723,366,999</u>	25.1 %

Receivables increased 10.3% between 2020 and 2021, primarily due to an increase in contributions underpayments of \$15.3 million.

Pending trades receivable and payable increased 20.1% and 23.8%, respectively, between 2020 and 2021. Pending trades fluctuate from year to year and are unpredictable.

Investments at fair value increased \$11.8 billion from 2020 to 2021 primarily due to the 27.3% (time-weighted, gross of fees) total return generated by the System's investments in 2021. The investment performance was primarily driven by the strong returns from U.S. stocks, international stocks, and private equity.

Accounts payable and accrued expenses increased by \$18.4 million between 2020 and 2021 primarily due to an increase in contribution overpayments and contributions payable of \$18.1 million.

MANAGEMENT’S DISCUSSION AND ANALYSIS

**CONDENSED STATEMENT OF CHANGES IN FIDUCIARY NET POSITION
For the Years Ended June 30,**

	<u>2021</u>	<u>2020</u>	Increase/ (Decrease) from 2020 to 2021	Percentage Increase/ (Decrease) from 2020 to 2021
Contributions	\$ 2,173,834,096	\$ 2,157,256,517	\$ 16,577,579	0.8 %
Net investment income	12,602,090,284	3,137,476,177	9,464,614,107	301.7
Other income	3,262,309	3,070,029	192,280	6.3
Total additions	<u>14,779,186,689</u>	<u>5,297,802,723</u>	<u>9,481,383,966</u>	179.0
Benefit payments	3,008,567,031	2,805,034,501	203,532,530	7.3
Refunds of contributions	30,272,862	29,504,997	767,865	2.6
Transfer of contributions	4,424,263	-	4,424,263	N/A
Administrative expenses	12,530,326	12,398,157	132,169	1.1
Other expenses	25,208	295	24,913	8445.1
Total deductions	<u>3,055,819,690</u>	<u>2,846,937,950</u>	<u>208,881,740</u>	7.3
Change in net position	11,723,366,999	2,450,864,773	9,272,502,226	378.3
Net position, beginning of year	<u>46,735,117,356</u>	<u>44,284,252,583</u>	<u>2,450,864,773</u>	5.5
Net position, end of year	<u>\$ 58,458,484,355</u>	<u>\$ 46,735,117,356</u>	<u>\$ 11,723,366,999</u>	25.1 %

Net investment income increased \$9.5 billion from 2020 to 2021 because the time-weighted investment return (gross of fees) of 27.3% in 2021 was higher than the 7.2% returned in 2020. This performance represents the second strongest fiscal year in the Fund’s history and the highest return in more than three decades.

Benefit payments increased 7.3% in 2021 primarily due to the number of beneficiaries increasing from 72,471 in 2020 to 75,955 and the average monthly benefit increasing from \$3,279 in 2020 to \$3,377 in 2021.

Refunds of contributions increased 2.6% and transfers of contributions increased \$4.4 million in 2021. These numbers are unpredictable each year and depend on individual elections made by active and inactive members.

Contacting the System’s Financial Management

This financial report is designed to provide plan participants, employers, citizens, taxpayers, and others with a general overview of the System’s finances and to demonstrate the Board’s oversight of the System. If you have questions about this report or need additional financial information, please contact PERS at 775-687-4200.

FINANCIAL SECTION**STATEMENT OF FIDUCIARY NET POSITION**

June 30, 2021

(With Comparative Totals for June 30, 2020)

	<u>2021</u>	<u>2020</u>
ASSETS		
Cash and cash equivalents	\$ 705,534,396	\$ 773,941,346
Receivables:		
Contributions receivable	190,228,841	170,348,048
Pending trades receivable	719,321,011	599,026,854
Accrued investment income	<u>156,089,782</u>	<u>143,688,471</u>
Total receivables	<u>1,065,639,634</u>	<u>913,063,373</u>
Investments, at fair value:		
U.S. bonds	14,584,320,841	12,694,853,860
U.S. stocks	24,876,074,298	18,879,521,208
International stocks	11,150,135,417	9,342,475,742
Real estate	2,626,656,113	2,115,552,553
Private equity	<u>4,231,478,443</u>	<u>2,635,864,456</u>
Total investments	57,468,665,112	45,668,267,819
Collateral on loaned securities, at fair value	174,487,304	205,982,715
Property and equipment	48,629,942	46,556,109
Accumulated depreciation	<u>(43,481,270)</u>	<u>(42,682,996)</u>
Net property and equipment	5,148,672	3,873,113
Other assets	<u>4,769,353</u>	<u>4,131,236</u>
Total plan assets	<u>59,424,244,471</u>	<u>47,569,259,602</u>
LIABILITIES		
Accounts payable and accrued expenses	39,503,999	21,062,690
Pending trades payable	751,768,813	607,096,841
Obligations under securities lending activities	<u>174,487,304</u>	<u>205,982,715</u>
Total plan liabilities	<u>965,760,116</u>	<u>834,142,246</u>
NET POSITION		
Net position restricted for pension benefits	<u>\$ 58,458,484,355</u>	<u>\$ 46,735,117,356</u>

The accompanying notes are an integral part of these financial statements.

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION

For the Year Ended June 30, 2021

(With Comparative Totals For the Year Ended June 30, 2020)

	2021	2020
ADDITIONS		
Contributions:		
Employer	\$ 1,051,938,035	\$ 1,045,108,804
Plan members	1,051,938,035	1,045,108,804
Repayment and purchase of service	69,958,026	67,038,909
Total contributions	2,173,834,096	2,157,256,517
Investment income:		
Net appreciation in fair value of investments	11,712,776,483	2,162,384,222
Interest	177,842,092	268,591,378
Dividends	645,827,624	640,135,686
Other investment income	126,075,176	119,982,070
	12,662,521,375	3,191,093,356
Less investment fees and other expense	(63,614,580)	(57,703,435)
Net investment income	12,598,906,795	3,133,389,921
Securities lending income	3,764,305	8,769,170
Less securities lending expense	(580,816)	(4,682,914)
Net securities lending income	3,183,489	4,086,256
Total net investment income	12,602,090,284	3,137,476,177
Other income	3,262,309	3,070,029
Total additions	14,779,186,689	5,297,802,723
DEDUCTIONS		
Benefit payments:		
Retirement and survivor benefits	2,889,309,044	2,689,113,774
Disability	119,257,987	115,920,727
Refunds of contributions	30,272,862	29,504,997
Transfers of contributions	4,424,263	-
Administrative expenses	12,530,326	12,398,157
Other expenses	25,208	295
Total deductions	3,055,819,690	2,846,937,950
Change in net position	11,723,366,999	2,450,864,773
Net position restricted for pension benefits:		
Beginning of year	46,735,117,356	44,284,252,583
End of year	\$ 58,458,484,355	\$ 46,735,117,356

The accompanying notes are an integral part of these financial statements.

NOTES TO FINANCIAL STATEMENTS

NOTE 1 – Summary of Significant Accounting Policies

Financial Reporting Entity

The Public Employees' Retirement Board (Retirement Board or Board) is the governing body of the Public Employees' Retirement System of Nevada (System or PERS) with responsibility for administration and management. This autonomous, seven-member Retirement Board is appointed by the Governor of the State of Nevada.

The System has no relationship with another entity that meets the criteria for inclusion as a component unit and has not included any other entity as a component unit of its financial reporting entity.

The System is classified as a component unit of the State of Nevada for financial reporting purposes in accordance with the provisions of the Governmental Accounting Standards Board (GASB) because the State Legislature retains certain significant governing powers over the System.

Basis of Accounting

The accompanying financial statements of the System have been prepared in conformity with generally accepted accounting principles (GAAP) in the United States of America.

The System uses the economic resources measurement focus and the accrual basis of accounting. Revenues are recorded in the accounting period in which they are earned and become measurable. Per statute, employee and employer contributions are recognized in the reporting period for which they are due. Expenses are recorded when the corresponding liabilities are incurred, regardless of when payment is legally made. Benefits and refunds are recognized when currently due and payable in accordance with the terms of the plan.

Actuarially determined liabilities for retirement benefits are not recorded in the financial statements.

New Pronouncements

GASB Statement No.98 - In October 2021, GASB issued Statement No. 98, *The Annual Comprehensive Financial Report*. This statement establishes the term annual comprehensive financial report and its acronym ACFR. The new term and acronym replace instances of comprehensive annual financial report and its acronym in generally accepted accounting principles for state and local governments. The provisions in Statement 98 are effective for fiscal years ending after December 15, 2021. The applicable provisions were implemented on July 1, 2020 and all references have been updated accordingly.

Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities as of the date of the financial statements, and the reported amounts of additions and deductions during the reported period. Actual results could differ from those estimates.

NOTES TO FINANCIAL STATEMENTSOrganization

The System is comprised of two sub-funds.

Regular sub-fund – Established to provide retirement, disability, and survivor benefits for public employees with the exception of those who are police officers or firefighters.

Police/Fire sub-fund – Established to segregate accounting for benefits related to members who are police officers or firefighters.

Assets of the System can legally be used to pay both Regular and Police/Fire beneficiaries.

Cash and Cash Equivalents

Cash and cash equivalents include both operating cash on deposit with the System's commercial bank and cash on deposit with the custodial bank. Cash on deposit at the System's custodial bank includes investments in Invesco Treasury Portfolio Short-Term Investments Trust. This fund invests in short-term, high credit quality money market instruments. These instruments are direct obligations of the U.S. Treasury and repurchase agreements backed by Treasury obligations.

Contributions Receivable

No allowance for doubtful accounts has been established since the System anticipates no material collection loss with respect to contributions receivables.

Benefit Payments

Benefits are paid during the month they are due; therefore, no benefit payable is recorded each month or at year-end.

Federal Income Tax

The System is a qualified pension plan under Section 401(a) of the Internal Revenue Code (IRC) and, as such, is required to withhold federal income tax from member and benefit recipient payments in accordance with the IRC. As a public entity, the System is not required to file a federal income tax return with the Internal Revenue Service.

Investments

The Regular sub-fund and the Police/Fire sub-fund are accounted for separately, based upon actual funds contributed and an allocation of the combined investment earnings. Individual investments are not specifically identified as belonging to either the Regular sub-fund or the Police/Fire sub-fund.

NOTES TO FINANCIAL STATEMENTS

Plan investments are reported at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. It is assumed that both buyer and seller are rational and have a reasonable knowledge of relevant facts. Securities traded on national or international exchanges are valued at the last reported sales price at current exchange rates. U.S. treasuries are valued based on observable market data. The fair value of real estate third-party investments is established by an independent third-party valuation firm in conjunction with Member Appraisal Institute (MAI) independent appraisals. For private equity partnership investments, estimated fair value is determined in good faith and provided by the general partner of the respective investment partnership, based on the most recent financial information available for the underlying companies at the measurement date adjusted for subsequent cash flow activities through June 30, 2021. In addition, each partnership undergoes an independent audit on an annual basis.

Investment purchases and sales are recorded as of the trade date. Dividend income is recognized on the ex-dividend date. Investment income is recognized as earned. Net change in the fair value of investments is determined by calculating the change in fair value of investments between the beginning of the fiscal year and the end of the fiscal year, less purchases of investments at cost, plus sales of investments at fair value.

There are certain market risks, credit risks, foreign exchange currency risks, or event risks which may subject the System to economic changes occurring in certain industries, sectors, or geographies.

Property and Equipment

Property and equipment consist of furniture, equipment, computer hardware, and software at cost net of accumulated depreciation. Assets are capitalized when the expected life is greater than one year and the initial cost is \$5,000 or more per unit. Intangible assets are capitalized for the development stage only (design, configuration, installation, and testing). Depreciation is calculated using straight-line depreciation method over five years. The term “depreciation” includes amortization of intangible assets.

Administrative Expenses

The funds for administering the System are provided by the assessment of an administrative fee for each member and benefit recipient. Monthly fees at June 30, 2021, were \$3.47 for each Regular member and benefit recipient and \$3.65 for each Police/Fire member and benefit recipient. PERS is required by statute to submit a biennial budget proposal to the Budget Division of the State of Nevada, which must be incorporated with the State Executive Budget and approved by the Nevada Legislature.

Comparative Totals

The basic financial statements include a partial presentation of prior year comparative financial statements but not at the level of detail required for a presentation in conformity with the accounting principles generally accepted in the United States of America. Accordingly, such information should be read in conjunction with the System’s financial statements as of and for the year ended June 30, 2020, from which the partial information was derived.

NOTES TO FINANCIAL STATEMENTS

NOTE 2 – Plan Description

History and Purpose

PERS administers a cost-sharing, multiple-employer, defined benefit public employees’ retirement system which includes both Regular and Police/Fire members. The System was established by the Nevada Legislature in 1947, effective July 1, 1948. The System is administered to provide a reasonable base income to qualified employees who have been employed by a public employer and whose earning capacities have been removed or substantially impaired by age or disability.

Membership

At June 30, 2021, the number of participating public employers and active members was:

<u>Entity Type</u>	<u>Number of Employers</u>	<u>Number of Members</u>
State of Nevada and Related Agencies	23	17,859
Nevada System of Higher Education	1	3,645
Schools	68	49,421
Counties	16	12,540
Cities	19	9,444
Hospitals	8	4,120
Utility, Irrigation, and Sanitation Districts	18	880
Special Districts and Agencies	<u>61</u>	<u>9,021</u>
	<u>214</u>	<u>106,930</u>

A complete list of participating employers can be found in the Statistical Section.

NOTES TO FINANCIAL STATEMENTS

Any public employer in the State of Nevada may have its Regular or Police/Fire employees covered by the System. Retired, active, and inactive membership at June 30 was as follows:

	<u>2021</u>
Regular retired members:	
Service retirees	59,069
Beneficiaries and survivors	<u>6,919</u>
	<u>65,988</u>
Police/Fire retired members:	
Service retirees	8,686
Beneficiaries and survivors	<u>1,281</u>
	<u>9,967</u>
Total benefit recipients	<u><u>75,955</u></u>
Inactive members entitled to but not yet receiving benefits:	
Regular	17,904
Police/Fire	<u>967</u>
Total inactive members	<u><u>18,871</u></u>
Active members:	
Regular	93,796
Police/Fire	<u>13,134</u>
Total active members	<u><u>106,930</u></u>
Total retired, active, and inactive membership	<u><u>201,756</u></u>

Benefits

Benefits, as required by the Nevada Revised Statutes (NRS or statute), are determined by the number of years of accredited service at time of retirement and the member’s highest average compensation in any 36 consecutive months with special provisions for plan members entering the System on or after January 1, 2010. Benefit payments to which participants or their beneficiaries may be entitled under the plan include pension benefits, disability benefits, and survivor benefits.

Monthly benefit allowances for members are computed at 2.5% of average compensation for each accredited year of service prior to July 1, 2001. For service earned on and after July 1, 2001, this multiplier is 2.67% of average compensation. For plan members entering the System on or after January 1, 2010, there is a 2.5% multiplier for all years of service. Regular plan members entering the System on or after July 1, 2015, have a 2.25% multiplier. The System offers several alternatives to the unmodified service retirement allowance which, in general, allow the retired employee to accept a reduced service retirement allowance payable monthly during his or her lifetime and various optional monthly payments to a named beneficiary after his or her death.

NOTES TO FINANCIAL STATEMENTS

Post-retirement increases are provided by authority of NRS 286.575–.579. See Plan Summary for details.

Vesting

Regular members entering the system prior to January 1, 2010, are eligible for retirement at age 65 with five years of service, at age 60 with 10 years of service, or at any age with 30 years of service. Regular members entering the System on or after January 1, 2010, are eligible for retirement at age 65 with five years of service, or age 62 with 10 years of service, or any age with 30 years of service. Regular members entering the System on or after July 1, 2015, are eligible for retirement at age 65 with five years of service, at age 62 with 10 years of service, at age 55 with 30 years of service, and at any age with 33 1/3 years of service.

Police/Fire members entering the system prior to January 1, 2010, are eligible for retirement at age 65 with five years of service, at age 55 with 10 years of service, at age 50 with 20 years of service, or at any age with 25 years of service. Police/Fire members entering the System on or after January 1, 2010, are eligible for retirement at age 65 with five years of service, or age 60 with 10 years of service, or age 50 with 20 years of service, or at any age with 30 years of service. Only service performed in a position as a police officer or firefighter may be counted towards eligibility for retirement as Police/Fire accredited service.

The normal ceiling limitation on monthly benefit allowances is 75% of average compensation. However, a member who has an effective date of membership before July 1, 1985, is entitled to a benefit of up to 90% of average compensation. Both Regular and Police/Fire members become fully vested as to benefits upon completion of five years of service.

Plan Member Contributions

The authority for establishing and amending the obligation to make contributions, and member contribution rates, is set by statute. New hires, in agencies which did not elect the Employer-Pay Contribution (EPC) plan prior to July 1, 1983, have the option of selecting one of two contribution plans. One plan provides for matching employee and employer contributions, while the other plan provides for employer-pay contributions only. Under the matching Employee/Employer Contribution plan a member may, upon termination of service for which contribution is required, withdraw employee contributions which have been credited to their account. All membership rights and active service credit in the System are canceled upon withdrawal of contributions from the member's account. If EPC was elected, the member cannot convert to the Employee/Employer Contribution plan and cannot withdraw these contributions.

NOTE 3 – Contributions Required and Contributions Made

The System's basic funding policy provides for periodic contributions at a level pattern of cost as a percentage of salary throughout an employee's working lifetime in order to accumulate sufficient assets to pay benefits when due.

NOTES TO FINANCIAL STATEMENTS

Although the System receives an actuarial valuation on an annual basis indicating the contribution rates required to fund the System on an actuarial reserve basis, contributions actually made are in accordance with the required rates established by the Nevada Legislature. These statutory rates are increased/decreased pursuant to NRS 286.421 and 286.450.

The Public Employees’ Retirement Act requires an adjustment in the statutory contribution rates on July 1 of each odd-numbered year, based on the actuarially determined rates indicated in the actuarial valuation report ending June 30 in the preceding even year. Rates are only adjusted upward if the new rates are more than 0.50% higher than the existing rate for Employer-Pay and more than 0.25% higher for Employee/Employer. Rates are only adjusted downward if the new rates are more than 2.00% lower than the existing rate for Employer-Pay (and adjusted only by the amount in excess of 2.00%) and more than 1.00% lower than the existing rate for Employee/Employer (and adjusted only by the amount in excess of 1.00%). Rates are rounded to the nearest 0.25% of payroll.

Rates in effect for the year ended June 30, 2021, were as follows:

<u>Regular Employees</u>	<u>Actuarial Determined Rate*</u>	<u>Statutory Rate</u>
Employer-pay plan	29.84%	29.25%
Employee/employer plan (matching rate)	15.61	15.25
<u>Police/Fire Employees</u>		
Employer-pay plan	43.93%	42.50%
Employee/employer plan (matching rate)	22.71	22.00

*From June 30, 2020, actuarial valuation.

Under the Employer-Pay provisions, the contributions made by employers on behalf of employees are not credited to the plan member’s account and are not refunded upon termination; however, they are reported as plan member contributions. For employees covered by the Employer-Pay provisions, average compensation is increased by half the total contributions made by the public employer and may not be less than it would have been if contributions had been made by the plan member and the employer separately.

The Judicial Retirement System (JRS) was established in 2001 to provide benefits for the retirement, disability, or death of all justices of the Supreme Court and district judges. In fiscal year 2006 justices of the peace and municipal court judges began participating in JRS on a voluntary, employer-by-employer basis. Each participating individual who has service credit in PERS may transfer, subject to statutory time frames and requirements, to JRS. At the time of transfer all of the individual’s contributions and the related liability to the System for that individual are moved from PERS to JRS. PERS transferred contributions of \$4,424,263 to JRS in the year ended June 30, 2021.

NOTES TO FINANCIAL STATEMENTS

NOTE 4 – Retirement Fund Contributions of PERS’ Employees

Administrative employees of PERS (as a participating employer) are plan members of the System. All participating public employers make contributions to the System at the same percentage of salary rate for Regular members as required by statute. Actuarially determined contribution requirements for administrative employees of the System are the same as all other employers within the System. Employer contributions for administrative employees were \$700,119 for the year ended June 30, 2021, and were paid for by the PERS Administration Fund.

NOTE 5 – Deposit and Investment Disclosures

The investments of the System are governed primarily by the “prudent person” standard. The prudent person standard, as set forth in NRS 286.682, authorizes the Board to invest the System’s funds in “every kind of investment which persons of prudence, discretion and intelligence acquire or retain for their own account.”

Investment Policy

The System’s policies* which determine the investment portfolio target asset allocation are established by the Board. The asset allocation is reviewed annually and is designed to meet the future risk and return needs of the System. The following was the Board adopted policy target asset allocation as of June 30, 2021:

Asset Class	Target Allocation
U.S. stocks	42%
International stocks	18
U.S. bonds	28
Private markets**	12
Total	100%

*The System’s current Investment Objectives and Policies may be found on the PERS website www.nvpers.org.

**As of June 30, 2021, the Private markets allocation includes 6% Private real estate and 6% Private equity.

Rate of Return

For the year ended June 30, 2021, the annual money-weighted return on pension plan investments was 27.25%. The money-weighted rate of return expresses investment performance net of pension plan investment expense, adjusted for changing amounts actually invested.

The majority of the System’s investments are held by the Depository Trust Company (DTC) in DTC’s nominee name, and trading is conducted through DTC’s book-entry system. The holder of record for the System is The Bank of New York Mellon.

NOTES TO FINANCIAL STATEMENTS

Custodial Credit Risk – Deposits

Custodial credit risk for deposits is the risk that, in the event of the failure of its depository financial institution, the System will not be able to recover its deposits.

At June 30, 2021, the carrying amount of the System's commercial cash deposits was \$11,344,653 and the commercial bank balance was \$15,929,586. Of the bank balance, \$250,000 was insured by the Federal Deposit Insurance Corporation (FDIC). The remaining commercial bank balance is, per a depository pledge agreement between the System and the System's commercial bank, collateralized at 102% of the collected funds on deposit (increased by the amount of accrued but uncredited interest, reduced by deposits covered by FDIC). These collateral securities are held by the System's agent in the System's name.

The custodial cash balance at June 30, 2021, was \$62,901,306. Custodial cash is swept nightly from the custodial bank to an overnight short-term investment fund held outside the bank. Funds arriving at the bank after the overnight sweep deadline are part of the custodial bank cash reserve and are covered up to the FDIC limit, any amount in the cash reserve in excess of this limit is subject to custodial credit risk. The custodial bank carries insurance covering destruction of cash or securities on or off premises with a limit of \$875,000,000 per occurrence.

Credit Risk – Investments

Credit risk for investments is the risk that an issuer or other counterparty will not fulfill its obligations to the System and *custodial credit risk for investments* is the risk that, in the event of the failure of the counterparty to a transaction, the System will not be able to recover the value of investment or collateral securities that are in the possession of an outside party.

System policies provide protection from undue investment credit risk by requiring the following:

- Investments in direct obligations of the U.S. Treasury including bills, bonds, and repurchase agreements secured by those obligations.
- U.S. Treasury money market mutual funds must be SEC registered 2a-7 and AAA rated by at least two of Moody's, S&P, or Fitch and whose investment guidelines are substantially equivalent to and consistent with the System's overall short-term investment criteria.
- Short selling and the use of leverage is not permitted.

There is no credit risk assigned to U.S. Treasury securities as these are explicitly guaranteed by the U.S. Government. It is important to note, however, that the value of U.S. Treasury obligations fluctuate based on non-credit-related factors, such as interest-rate movements, which could cause future price declines despite government backing.

NOTES TO FINANCIAL STATEMENTS

Cash equivalents include \$631.0 million investment in Invesco Treasury Portfolio Short-Term Investments Trust, which is not rated. The System additionally holds \$14,584.3 million in U.S. Treasury securities which are explicitly guaranteed by the U.S. Government.

Concentration of credit risk is the risk of loss that may be attributed to the magnitude of an investment in a single issuer. As of June 30, 2021, the PERS portfolio has no single issuer exposure that comprises 5% or more of the overall portfolio, excluding investments issued or explicitly guaranteed by the U.S. Government. Also, the System does not have an investment in any single issuer that represents 5% or more of the fiduciary net position. Therefore, there is no concentration of credit risk.

Equity portfolios shall be suitably diversified to the extent that an adversity affecting a particular sector or issuer will not impact a disproportionate share of the investment manager portfolio.

In addition, the investment policy requires that no more than 10% of the System's assets shall be managed on a permanent basis by a single investment firm in active strategies. A single firm may manage up to 30% of the System's assets on a permanent basis in index strategies. No asset manager may oversee more than 30% of the System's assets. The System's assets shall not permanently constitute more than 20% of any firm's assets within the asset class (equity, bonds, real estate, or private equity) managed for PERS.

Staff shall provide an annual report to the Board of assets under management consistent with this policy.

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. The System mitigates interest rate risk through portfolio diversification as discussed previously. The System's investment policy, and the investment portfolio counsel mandates, permit investment only in bonds within the Bloomberg Barclays U.S. Treasury Index.

NOTES TO FINANCIAL STATEMENTS

The segmented time distribution method is used to determine investment maturity time horizons. The following table shows the fair value of fixed income and short-term securities and the applicable investment maturities as of June 30, 2021.

INVESTMENT MATURITIES

(in years)

Investment Type (in millions)	Less than 1	1 to 5	6 to 10	More than 10	Total
Cash equivalents*	\$ 631.0	\$ -	\$ -	\$ -	\$ 631.0
U.S. treasuries	-	14,584.3	-	-	14,584.3
Total	<u>\$ 631.0</u>	<u>\$ 14,584.3</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 15,215.3</u>

*Cash equivalents consist of investments in Invesco Treasury Portfolio Short-Term Investments Trust.

Investment maturities above have been provided by the System’s custodial bank, The Bank of New York Mellon.

The above table does not include commercial cash of \$11.3 million, cash in custodial bank of \$62.9 million, or other cash equivalents of \$0.3 million.

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment or a deposit. The System mitigates foreign currency risk through portfolio diversification as discussed previously, along with asset allocation policy limits on international assets. The System’s investment policy maintains a target allocation to international stocks of 18%. All international stock holdings are constituents of the MSCI World ex USA Index.

NOTES TO FINANCIAL STATEMENTS

The System's exposure to foreign currency risk in U.S. dollars as of June 30, 2021, is summarized in the following table.

CURRENCY BY INVESTMENT AND FAIR VALUE

(in millions)

Currency Type	Equity	Private Equity	Pending Transactions	Cash	Total
Australian Dollar	\$ 663.8	\$ -	\$ 0.1	\$ 0.8	\$ 664.7
British Pound Sterling	1,274.9	41.4	(1.1)	2.2	1,317.4
Canadian Dollar	1,053.4	-	(0.6)	0.9	1,053.7
Danish Krone	238.2	-	(0.1)	0.1	238.2
Euro	3,112.8	440.3	(1.9)	(0.1)	3,551.1
Hong Kong Dollar	282.3	-	(0.1)	0.9	283.1
Israeli Shekel	31.5	-	-	0.1	31.6
Japanese Yen	2,136.0	-	(3.0)	5.0	2,138.0
New Zealand Dollar	22.1	-	-	-	22.1
Norwegian Krone	58.0	-	(0.1)	0.2	58.1
Singapore Dollar	96.1	-	(0.1)	0.6	96.6
Swedish Krona	343.9	-	(0.2)	-	343.7
Swiss Franc	901.0	-	(1.0)	-	900.0
Total	\$ <u>10,214.0</u>	\$ <u>481.7</u>	\$ <u>(8.1)</u>	\$ <u>10.7</u>	\$ <u>10,698.3</u>

Derivatives

The System held no derivative transactions during the current fiscal year.

NOTES TO FINANCIAL STATEMENTS*Securities Lending*

The System maintains a securities lending program by authorization of NRS 286.682, the “prudent person” standard previously described. Securities loaned under this program consist of U.S. Treasury obligations, U.S. equity securities, and international equity securities. Collateral received consists of cash and securities issued by the U.S. Government, its agencies, or instrumentalities. The System has no discretionary authority to sell or pledge collateral received.

At June 30, 2021, the weighted average maturities were 1 day for loans outstanding and 1 day for collateral/reinvestments. Collateral received for the lending of U.S. securities must equal at least 102% of market value, plus accrued interest in the case of fixed income securities. Collateral received for the lending of international securities must equal at least 105% of market value, plus accrued interest in the case of fixed income securities. The securities lending program allows only overnight repurchase agreements collateralized by U.S. Government obligations issued or guaranteed by the U.S. Government, its agencies or instrumentalities within the reinvestment portfolio. In addition, PERS’ securities lending agent provides full indemnification against losses incurred in the collateral reinvestment program.

The System has no credit risk exposure to borrowers because the associated value of the collateral held exceeds the value of the securities borrowed. At June 30, 2021, the System had collateral of 104.6%. Collateral consisted of cash and securities issued by the U.S. Government, its agencies, or instrumentalities. In addition, securities loaned may not exceed 33⅓% of the total portfolio. Loss indemnification due to borrower default is provided by PERS’ securities lending agent. There were no losses during the period resulting from borrower default.

The fair value of securities loaned at June 30, 2021, was \$1,661,411,282. Cash collateral received in securities lending arrangements is reported on the Statement of Fiduciary Net Position at fair value, as an asset with a related liability.

The following table represents the collateral received for the outstanding securities lending transactions as of June 30, 2021.

	Cash	Non-Cash	Total
Collateral Received	\$ 174,487,304	\$ 1,563,810,614	\$ 1,738,297,918

For fiscal year 2021, the net income from securities lending was \$3,183,489.

NOTES TO FINANCIAL STATEMENTS

NOTE 6 – Fair Value

The System holds investments that are measured at fair value on a recurring basis. The System categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. Investments measured and reported at fair value using Level inputs are classified and disclosed in one of the following categories:

Level 1 – Quoted prices are available in active markets for identical investments as of the reporting date. The types of investments included in Level 1 include U.S. Treasuries and listed stocks.

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 and significant value drivers are observable.

Level 3 – Valuations derived from valuation techniques in which significant inputs or significant value drivers are unobservable.

The following table presents fair value measurements as of June 30, 2021:

FAIR VALUE LEVELS
(in millions)

	6/30/2021	Level 1	Level 2	Level 3	Total
U.S. treasuries	\$ 14,584.3	\$ 14,584.3	\$ -	\$ -	\$ 14,584.3
Stocks					
Common stock	35,969.5	35,969.5	-	-	35,969.5
Preferred stock	56.7	56.7	-	-	56.7
Total stocks	36,026.2	36,026.2	-	-	36,026.2
Total investments by fair value level	\$ 50,610.5	\$ 50,610.5	\$ -	\$ -	\$ 50,610.5
Investments measured at the net asset value (NAV)					
Real estate	2,626.7				
Private equity	4,231.5				
Total investments measured at the NAV	6,858.2				
Total investments	\$ 57,468.7				

Stocks and bonds securities classified in Level 1 of the fair value hierarchy are valued using prices quoted in active markets for those securities.

FINANCIAL SECTION

NOTES TO FINANCIAL STATEMENTS

The following table presents investments measured at the NAV as of June 30, 2021:
(in millions)

	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
Real estate separate accounts*	\$ 2,626.7	\$ -	N/A	N/A
Private equity**	4,231.5	1,587.3	N/A	N/A
Total investments measured at the NAV	<u>\$ 6,858.2</u>	<u>\$ 1,587.3</u>	<u>N/A</u>	<u>N/A</u>

*Real estate separate accounts. This type includes two core real estate separate accounts that invest in U.S. industrial, multi-family, office, and retail properties. The fair values of the investments in this type have been determined based on third-party appraisals net of outstanding debt. The property values are managed by the Altus Group which values the real estate assets on a quarterly basis and oversees the engagement of and management of third-party appraisers who value the properties annually. The System owns each property through 501(c)(25) holding corporations or limited liability companies with the System as sole shareholder. The properties can be put up for sale at any time.

**Private equity. This type includes a single portfolio investing in and acquiring private equity investment partnerships located in the United States and Europe. The System does not have the ability to withdraw its investments from these investment partnerships. Interest in an investment partnership can be transferred or sold only upon the approval of the general partner of the respective investment partnership.

For private equity investment partnerships, fair value considers, among other factors, the reported net asset value (NAV) of the investment as determined in good faith by the general partner of the respective investment partnership. Because of the inherent uncertainty in valuing investments in investment partnerships for which no active, public market exists, or where the net realizable value may be significantly affected by a lack of liquidity or other market conditions, the fair value reported is an estimate and could significantly differ from the value that could be realized in a secondary market transaction and/or from the amounts ultimately realized.

The general partners of the investment partnerships generally report NAV based on the fair value of the underlying portfolio companies, as well as the other assets and liabilities held by the investment partnership. Investments that have a negative fair value have losses allocated to the portfolio that exceed the amounts invested. Owing to the general partners' expertise and proprietary knowledge of the portfolio company investments, the System generally utilizes the NAV as the basis for the reported investment values. The System may, in good faith, apply an appropriate adjustment to the NAV reported by the general partner of the respective investment partnership, if deemed necessary.

Due to the reporting time frame of private investment fund managers, which report performance on a one-quarter lag from the end of the performance quarter, fair values as of June 30, 2021, are based on actual March 31, 2021, fair values, adjusted for cash flows and public shares received by PERS but not yet sold as of June 30, 2021.

NOTES TO FINANCIAL STATEMENTS

NOTE 7 – Net Pension Liability

The components of the net pension liability at June 30, 2021, were as follows:

Total pension liability	\$ 67,577,781,457
Plan fiduciary net position	<u>58,458,484,355</u>
Net pension liability	<u>\$ 9,119,297,102</u>
Plan fiduciary net position as a percentage of the total pension liability	86.5%

Actuarial Assumptions

The total pension liability was determined as part of the GASB Statement No. 67 actuarial valuation as of June 30, 2021. It is important to note that the GASB rules only redefine pension liability for financial reporting purposes. The System continues to develop and adopt funding policies under current practices. The actuarial assumptions were based on the results of an experience study for the period from July 1, 2016, through June 30, 2020.

The entry age actuarial cost method is used for actuarial valuations. The following assumptions were applied to all periods included in the measurement:

Inflation	2.50%
Salary increases	4.20% to 9.10% for Regular members and 4.60% to 14.50% for Police/Fire members, vary by service, including inflation
Investment rate of return	7.25%, net of pension plan investment expense, including inflation
Post-Retirement Mortality Rates	

Healthy:

Regular Members: Pub-2010 General Healthy Retiree Amount-Weighted Above-Median Mortality Table (separate tables for males and females) with rates increased by 30% for males and 15% for females, projected generationally with the two-dimensional monthly improvement scale MP-2020.

The above listed mortality tables only provide rates for ages 50 and older. To develop mortality rates for ages 40 through 50, we have smoothed the difference between the rates at age 40 from the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables and the rates at age 50 from the Pub-2010 General Healthy Retiree Amount-Weighted Above-Median Mortality Tables. To develop the mortality

NOTES TO FINANCIAL STATEMENTS

Post-Retirement Mortality Rates
(continued):

rates before age 40, we have used the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables rates. This methodology for developing an extended annuitant mortality table is similar to the method used by the IRS to develop the base mortality table for determining minimum funding standards for single-employer defined benefit pension plans under Internal Revenue Code Section 430. While Section 430 is not applicable to the System, we believe this is a reasonable method for developing annuitant mortality rates at earlier ages.

Police/Fire Members: Pub-2010 Safety Healthy Retiree Amount-Weighted Above-Median Mortality Table (separate tables for males and females) with rates increased by 30% for males and 5% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

The above listed mortality tables only provide rates for ages 45 and older. To develop mortality rates for ages 35 through 45, we have smoothed the difference between the rates at age 35 from the Pub-2010 Safety Employee Amount-Weighted Above-Median Mortality Tables and the rates at age 45 from the Pub-2010 Safety Healthy Retiree Amount-Weighted Above-Median Mortality Tables. To develop the mortality rates before age 35, we have used the pub-2010 Safety Employee Amount-Weighted Above-Median Mortality Tables rates. This methodology for developing an extended annuitant mortality table is similar to the method used by the IRS to develop the base mortality table for determining minimum funding standards for single-employer defined benefit pension plans under Internal Revenue Code Section 430. While Section 430 is not applicable to the System, we believe this is a reasonable method for developing annuitant mortality rates at earlier ages.

NOTES TO FINANCIAL STATEMENTS

Post-Retirement Mortality Rates
(continued):*Disabled:*

Regular Members: Pub-2010 Non-Safety Disabled Retiree Amount-Weighted Mortality Table (separate tables for males and females) with rates increased by 20% for males and 15% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

Police/Fire Members: Pub-2010 Safety Disabled Retiree Amount-Weighted Mortality Table (separate tables for males and females) with rates increased by 30% for males and 10% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

Beneficiaries:

Regular and Police/Fire Current Beneficiaries in Pay Status: Pub-2010 Contingent Survivor Amount-Weighted Above-Median Mortality Table (separate tables for males and females) with rates increased by 15% for males and 30% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

The above listed mortality table only provides rates for ages 45 and older. To develop mortality rates for ages 35 through 45, we have smoothed the difference between the rates at age 35 from the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables and the rates at age 45 from the Pub 2010 Contingent Survivor Amount-Weighted Above-Median Mortality Tables. To develop the mortality rates before age 35, we have used the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables rates. This methodology for developing an extended annuitant mortality table is similar to the method used by the IRS to develop the base mortality table for determining minimum funding standards for single-employer defined benefit pension plans under Internal Revenue Code Section 430. While Section 430 is applicable to

NOTES TO FINANCIAL STATEMENTS

Post-Retirement Mortality Rates
(continued):

the System, we believe this is a reasonable method for developing annuitant mortality rates at earlier ages.

Regular and Police/Fire Contingent

Beneficiaries: Pub-2010 General Healthy Retiree Amount-Weighted Above-Median Mortality Table (separate tables for males and females) with rates increased by 30% for males and 15% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

The above listed mortality tables only provide rates for ages 50 and older. To develop mortality rates for ages 40 through 50, we have smoothed the difference between the rates at age 40 from the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables and the rates at age 50 from the Pub-2010 General Healthy Retiree Amount -Weighted Above-Median Mortality Tables. To develop the mortality rates before age 40, we have used the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables rates. This methodology for developing an extended annuitant mortality table is similar to the method used by the IRS to develop the base mortality table for determining minimum funding standards for single-employer defined benefit pension plans under Internal Revenue Code Section 430. While Section 430 is not applicable to the System, we believe this is a reasonable method for developing annuitant mortality rates at earlier ages.

NOTES TO FINANCIAL STATEMENTS

Post- Retirement Mortality Rates
(continued):

For the mortality table applicable to contingent beneficiaries, “Approach 1” from the Society of Actuaries “Pub-2010 Public Retirement Plans Mortality Tables Report” (as noted on page 50) was utilized. In particular, the mortality basis for contingent beneficiaries has been assumed to be the same mortality basis as the Healthy Regular retiree table listed above (except using rates applicable to the beneficiary’s gender) for both when the primary retiree is alive and is no longer alive.

The Pub-210 Amount-Weighted Mortality Tables (with loading factors as described above) reasonably reflect the projected mortality experience of the Plan as of the measurement date. The generational projection is a provision made for future mortality improvement

Pre-Retirement Mortality Rates:

Regular Members: Pub-2010 General Employee Amount-Weighted Above-Median Mortality Table (separate tables for males and females), projected generationally with the two-dimensional mortality improvement scale MP-2020.

Police/Fire Members: Pub-2010 Safety Employee Amount-Weighted Above-Median Mortality Table separate tables for males and females). Projected generationally with the two-dimensional mortality improvement scale MP-2020.

NOTES TO FINANCIAL STATEMENTS

The Pub-2010 Amount-Weighted Mortality Tables reasonably reflect the projected mortality experience of the plan as of the measurement date. The generational projection is a provision made for future mortality improvement.

Pre-Retirement Mortality Rates (%)

Age	<u>Regular</u>		<u>Police/Fire</u>	
	Male	Female	Male	Female
20	0.04	0.01	0.04	0.02
25	0.02	0.01	0.03	0.02
30	0.03	0.01	0.04	0.02
35	0.04	0.02	0.04	0.03
40	0.06	0.03	0.05	0.04
45	0.09	0.05	0.07	0.06
50	0.13	0.08	0.10	0.08
55	0.19	0.11	0.15	0.11
60	0.28	0.17	0.23	0.15
65	0.41	0.27	0.35	0.20
70	0.61	0.45	0.66	0.39

Note that generational projections beyond the base year (2010) are not reflected in the above mortality rates. Deaths that occur during the first two years of employment are assumed to be non-duty related.

NOTES TO FINANCIAL STATEMENTS

<u>Asset Class</u>	<u>Long-Term Geometric Expected Real Rate of Return</u>
U.S. stocks	5.50%
International stocks	5.50%
U.S. bonds	0.75%
Private markets	6.65%

Discount Rate

The discount rate used to measure the total pension liability was 7.25% as of June 30, 2021. The projection of cash flows used to determine the discount rate assumed plan contributions will be made in amounts consistent with statutory provisions and recognizing the plan's current funding policy and cost-sharing mechanism between employers and members. For this purpose, all contributions that are intended to fund benefits for all plan members and their beneficiaries are included, except that projected contributions that are intended to fund the service costs for future plan members and their beneficiaries are not included.

Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments for 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 as of June 30, 2021.

Future Payroll Growth

For the purpose of calculating the actuarial determined contribution rate, the total payroll growth assumption for future years is 3.50% per year for both Regular and Police/Fire.

NOTES TO FINANCIAL STATEMENTS

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

The following presents the net pension liability using the discount rate of 7.25%, as well as what the net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.25%) or 1-percentage-point higher (8.25%) than the current rate:

1% Decrease (6.25%)	Current Discount Rate (7.25%)	1% Increase (8.25%)
\$ 18,156,228,324	\$ 9,119,297,102	\$ 1,664,568,442

NOTE 8 – Risk Management

The System is exposed to various risks of loss related to theft of, damage to, and destruction of assets; injuries to employees and others; and court challenges to fiduciary decisions. To cover these risks, the System maintains commercial building and contents insurance, vehicle liability and collision/comprehensive insurance, general liability insurance, worker’s compensation insurance, and employee fidelity bonds. For coverage included within the State of Nevada’s policies, the System pays its premium directly to the State. The System’s building/contents insurance is placed with a private insurance company. There have never been any insurance settlements which exceeded insurance coverage.

NOTE 9 – Litigation

The System is involved in litigation relating to various matters. In the opinion of the management, after consulting with legal counsel, the outcome of these matters is not expected to have a material effect on the financial statements.

REQUIRED SUPPLEMENTARY INFORMATION

SCHEDULE OF CHANGES IN NET PENSION LIABILITY
AND RELATED RATIOSFor the Years Ended June 30,
(in millions)

	<u>2021</u>	<u>2020</u>
Total pension liability		
Service cost	\$ 1,249.3	\$ 1,207.3
Interest	4,529.3	4,328.2
Change of benefit terms	-	-
Difference between expected and actual experience	834.0	42.2
Change of assumptions	3,345.0	-
Benefit payments, including refunds	(3,038.8)	(2,834.5)
Other changes	(4.4)	-
Net change in total pension liability	<u>6,914.4</u>	<u>2,743.2</u>
Total pension liability-beginning	<u>60,663.4</u>	<u>57,920.2</u>
Total pension liability-ending (a)	<u>\$ 67,577.8</u>	<u>\$ 60,663.4</u>
Plan fiduciary net position		
Contributions-employer	\$ 1,051.9	\$ 1,045.1
Contributions-plan member	1,097.0	1,094.2
Net investment income	12,602.1	3,137.5
Benefit payments, including refunds	(3,038.8)	(2,834.5)
Administration expenses	(12.5)	(12.4)
Purchase of service	24.9	17.9
Other	(1.2)	3.1
Net change in plan fiduciary net position	<u>11,723.4</u>	<u>2,450.9</u>
Plan fiduciary net position-beginning	<u>46,735.1</u>	<u>44,284.2</u>
Plan fiduciary net position-ending (b)	<u>\$ 58,458.5</u>	<u>\$ 46,735.1</u>
Net pension liability-ending (a) - (b)	<u>\$ 9,119.3</u>	<u>\$ 13,928.3</u>
Plan fiduciary net position as a percentage of total pension liability	86.51%	77.04%
Covered payroll	\$ 6,874.8	\$ 7,059.5
Net pension liability as a percentage of covered payroll	132.6%	197.3%

Note: Complete data for this schedule is not available prior to 2013.

FINANCIAL SECTION

	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>
\$	1,169.7	\$ 1,134.1	\$ 1,107.5	\$ 1,086.5	\$ 1,063.5	\$ 1,058.8	\$ 1,038.7
	4,119.1	3,892.0	3,873.7	3,687.0	3,525.4	3,369.8	3,103.2
	-	-	-	-	-	10.0	-
	198.0	509.1	(211.3)	(245.8)	(529.6)	(585.2)	(514.3)
	-	-	1,046.0	-	-	-	1,459.8
	2,635.8	(2,451.4)	(2,288.6)	(2,138.6)	(1,983.9)	(1,839.8)	(1,707.8)
	<u>(0.2)</u>	<u>(0.5)</u>	<u>(0.4)</u>	<u>-</u>	<u>(2.4)</u>	<u>(1.0)</u>	<u>-</u>
	2,850.8	3,083.3	3,526.9	2,389.1	2,073.0	2,012.6	3,379.6
	<u>55,069.4</u>	<u>51,986.1</u>	<u>48,459.2</u>	<u>46,070.1</u>	<u>43,997.1</u>	<u>41,984.5</u>	<u>38,604.9</u>
\$	<u>57,920.2</u>	<u>55,069.4</u>	<u>51,986.1</u>	<u>48,459.2</u>	<u>46,070.1</u>	<u>43,997.1</u>	<u>41,984.5</u>
\$	965.5	\$ 930.3	\$ 901.7	\$ 849.8	\$ 1,436.6	\$ 1,405.0	\$ 1,310.1
	1,039.9	987.6	952.8	850.2	114.3	109.7	99.2
	3,468.1	3,273.9	4,110.3	778.7	1,395.3	5,031.4	3,193.9
	(2,635.8)	(2,451.4)	(2,288.6)	(2,138.6)	(1,983.9)	(1,839.8)	(1,706.9)
	(11.8)	(12.8)	(9.9)	(10.6)	(9.6)	(9.6)	(9.6)
	24.0	16.2	16.2	61.2	80.1	41.8	46.5
	<u>2.6</u>	<u>1.7</u>	<u>1.7</u>	<u>0.6</u>	<u>2.8</u>	<u>1.9</u>	<u>1.7</u>
	2,852.5	2,745.5	3,684.2	391.3	1,035.6	4,740.4	2,934.9
	<u>41,431.7</u>	<u>38,686.2</u>	<u>35,002.0</u>	<u>34,610.7</u>	<u>33,575.1</u>	<u>28,834.7</u>	<u>25,899.8</u>
\$	<u>44,284.2</u>	<u>41,431.7</u>	<u>38,686.2</u>	<u>35,002.0</u>	<u>34,610.7</u>	<u>33,575.1</u>	<u>28,834.7</u>
\$	<u>13,636.0</u>	<u>13,637.7</u>	<u>13,299.9</u>	<u>13,457.2</u>	<u>11,459.4</u>	<u>10,422.0</u>	<u>13,149.8</u>
	76.46%	75.24%	74.42%	72.23%	75.13%	76.31%	68.68%
\$	6,786.9	\$ 6,508.9	\$ 6,237.2	\$ 6,081.1	\$ 5,753.1	\$ 5,715.3	\$ 5,574.6
	200.9%	209.5%	213.2%	221.3%	199.2%	182.4%	235.9%

REQUIRED SUPPLEMENTARY INFORMATION

SCHEDULE OF EMPLOYER CONTRIBUTIONS

2012 to 2021

(in millions)

Year Ended June 30	Actuarially Determined Contributions	Contributions in Relation to the Actuarially Determined Contributions*	Contribution Deficiency (Excess)	Covered Payroll**	Contributions as a Percentage of Covered Payroll
2012	\$ 1,425.8	\$ 1,332.3	\$ 93.5	\$ 5,817.6	22.9 %
2013	1,370.0	1,310.1	59.9	5,574.6	23.5
2014	1,508.8	1,405.0	103.8	5,715.3	24.6
2015	1,499.8	1,436.7	63.1	5,753.1	25.0
2016	888.6	849.8	38.8	5,921.6	14.4
2017	912.6	901.7	10.9	6,081.1	14.8
2018	939.7	930.3	9.4	6,237.2	14.9
2019	981.8	965.5	16.3	6,508.9	14.8
2020	1,078.2	1,045.1	33.1	6,786.9	15.4
2021	1,121.3	1,051.9	69.3	7,059.5	14.9

*Includes employer contributions towards administrative expenses.

**Measurement as of beginning of year.

Notes: Beginning with the year-ended 2016, all contributions shown reflect employer-paid contributions only, and employer-paid member contributions are excluded. Actuarially Determined Contributions above are based on actuarially determined contributions rates (employer portion only) from most recent rate-setting year prior to year shown, applied to covered payroll for year shown.

Information provided by Segal, the System's actuary.

SCHEDULE OF INVESTMENT RETURNS

2012 to 2021

For Year Ended June 30	Annual Money-Weighted Rate of Return, Net of Investment Expenses
2012	3.05 %
2013	12.39
2014	17.60
2015	4.18
2016	2.27
2017	11.84
2018	8.54
2019	8.45
2020	7.15
2021	27.25

NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021

Methods and Assumptions Used in Calculations of Actuarially Determined Contributions

The actuarially determined contribution rates in the schedule of contributions are calculated as of June 30. The following actuarial methods and assumptions were used to determine contribution rates reported in that schedule.

Valuation date: Actuarially determined contribution rates are calculated in annual actuarial valuations as of June 30

Actuarial Cost Method: Entry Age Normal Actuarial Cost Method. Entry Age is the age at the time the participant commenced employment. Normal Cost and Actuarial Accrued Liability are calculated on an individual basis and are based on costs allocated as a level percentage of salary, with Normal Cost determined based on the plan provisions and benefit accrual rate applicable to that individual.

Amortization Policy: **For funding purposes**, the UAAL, (i.e., the difference between the Actuarial Accrued Liability and the Valuation Value of Assets), as of June 30, 2011 shall continue to be amortized over separate 30-year period amortization layers based on the valuations during which each separate layer was previously established.

Any new UAAL as a result of actuarial gains or losses identified in the annual valuation as of June 30 was amortized over a period equal to the truncated average remaining amortization period of all prior UAAL layers. This occurred until the average remaining amortization period was less than 20 years. At that point, amortization periods of 20 years are used for actuarial gains and losses.

Any new UAAL as a result of change in actuarial assumptions or methods was amortized over a period equal to the truncated average remaining amortization period of all prior UAAL layers. This occurred until the average remaining amortization period was less than 20 years.

**NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021**

At that point, amortization periods of 20 years are used for assumption or method changes.

Unless an alternative amortization period is recommended by the Actuary and accepted by the Board based on the results of an actuarial analysis:

- a. with the exception noted in b., below, the increase in UAAL as a result of any plan amendments will be amortized over a period of 15 years;
- b. the increase in UAAL that would result from a temporary retirement incentive will be pre-funded by the participating employer(s).

UAAL layers shall be amortized over “closed” amortization periods so that the amortization period for each layer decreases by one year with each actuarial valuation.

UAAL layers shall be amortized as a level percentage of payroll so that the amortization amount in each year during the amortization period shall be expected to be a level percentage of covered payroll, taking into consideration the current assumption for general payroll increase.

If an overfunding exists (i.e., the total of all UAAL becomes negative so that there is a surplus), such surplus and any subsequent surpluses will be amortized over an “open” amortization period of 30 years. Any prior UAAL amortization layers will be considered fully amortized, and any subsequent UAAL will be amortized over 20 years as the first of a new series of amortization layers.

**NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021**

These amortization policy components will apply separately to each of the Regular and Police/Fire UAAL cost groups.

Asset Valuation Method:

Market value of assets less unrecognized returns in each of the last five years. Unrecognized return is equal to the difference between the actual market return and the expected return on the actuarial value and is recognized over a five-year period. The actuarial value of assets is further limited to not less than 70% or greater than 130% of the market value of assets.

Actuarial Assumptions:

Assumed Inflation Rate:

FY12-FY16:	3.5% per annum
FY17-FY20:	2.75% per annum
FY21:	2.5% per annum

Projected Salary Increases:

FY12-FY13:	
Salary increases*:	The assumed salary increase rates are shown below:

Regular Employees	
Years of Service	Rate
1	9.75%
2	8.25%
3	7.75%
4	7.50%
5	7.25%
6	7.00%
7	6.75%
8	6.25%
9	5.75%
10	5.50%
11	5.10%
12	4.90%
13 or more	4.50%

Police/Fire Employees	
Years of Service	Rate
1	14.75%
2	10.75%
3	10.20%
4	9.80%
5	9.40%
6	9.00%
7	8.25%
8	7.75%
9	7.25%
10 or more	6.50%

*Includes inflation at 3.5% per year

**NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021**

FY14-FY16:

Inflation: 3.50% Plus

Productivity pay increases: 0.75% Plus

Promotional and merit salary increases:

<u>Years of Service</u>	<u>Regular</u>	<u>Police/Fire</u>
Less than 1	5.90%	10.65%
1	4.80	7.15
2	4.00	5.20
3	3.60	4.60
4	3.30	4.30
5	3.00	4.15
6	2.80	3.90
7	2.70	3.50
8	2.50	3.15
9	2.35	2.90
10	2.15	2.50
11	1.75	1.90
12	1.50	1.50
13	1.25	1.30
14	1.10	1.30
15	1.00	1.30

**NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021**

FY17-FY20:

Inflation: 2.75% Plus

*Productivity pay
increases:* 0.50% Plus

*Promotional and merit
salary increases:*

<u>Years of Service</u>	<u>Regular</u>	<u>Police/Fire</u>
Less than 1	5.90%	10.65%
1	4.80	7.15
2	4.00	5.20
3	3.60	4.60
4	3.30	4.30
5	3.00	4.15
6	2.80	3.90
7	2.70	3.50
8	2.50	3.15
9	2.35	2.90
10	2.15	2.50
11	1.75	1.90
12	1.50	1.50
13	1.25	1.30
14	1.10	1.30
15 or more	1.00	1.30

**NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021**

FY21:

Inflation: 2.50% Plus

*Productivity pay
increases:* 0.50% Plus

Merit salary increases:

<u>Years of Service</u>	<u>Regular</u>	<u>Police/Fire</u>
0-1	6.10%	11.50%
1-2	5.00	8.20
2-3	4.40	5.80
3-4	4.00	5.20
4-5	3.70	4.90
5-6	3.40	4.70
6-7	3.30	4.40
7-8	3.20	4.20
8-9	3.00	4.00
9-10	2.80	3.90
10-11	2.60	3.50
11-12	2.30	2.80
12-13	2.10	2.20
13-14	1.90	2.00
14-15	1.80	1.90
15-16	1.70	1.70
16-17	1.60	1.70
17-18	1.50	1.70
18-19	1.40	1.70
19-20	1.30	1.70
20 & Over	1.20	1.60

Future Salary Increases are assumed to occur at the beginning of the year.

**NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021**

Investment Rate of Return:

FY12-FY16:	8.0%
FY17-FY20:	7.5%
FY21:	7.25%

Retirement Age: Varies based on years of service

Mortality Rates:

FY12-FY13: Healthy:	RP-2000 Combined Healthy Mortality Table, set forward one year for females and police/fire members (no age set forward for males)
Disabled:	RP-2000 Disabled Retiree Mortality Table, set back three years for regular members, set forward eight years for regular and police/fire female members, and set forward for ten years for male police/fire members
FY14-FY-16: Healthy:	For non-disabled male regular members it is the RP-2000 Combined Healthy Mortality Table projected to 2013 with Scale AA. For non-disabled female regular members it is the RP-2000 Combined Healthy Mortality Table, projected to 2013 with Scale AA, set back one year. For all non-disabled police/fire members it is the RP-2000 Combined Healthy Mortality Table projected to 2013 with Scale AA, set forward one year.
Disabled:	The mortality table used in the actuarial valuation to project mortality rates for all disabled regular members and all disabled police/fire members is the RP-2000 Disabled Retiree Mortality Table projected to 2013 with Scale AA, set forward three years.

**NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021**

FY17-FY20:
Healthy: Headcount-Weighted RP-2014 Healthy Annuitant Table projected to 2020 with Scale MP-2016, set forward one year for spouses and beneficiaries.

For ages less than 50⁽¹⁾, mortality rates are based on the Headcount-Weighted RP-2014 Employee Mortality Tables. Those mortality rates are adjusted by the ratio of the mortality rate for members at age 50 to the mortality rate at age 50 from the Employee mortality tables listed above. The mortality rates are then projected to 2020 with Scale MP-2016.

Disabled: Headcount-Weighted RP-2014 Disabled Retiree Table, set forward four years.

Pre-Retirement: Headcount-Weighted RP-2014 Employee Table, projected to 2020 with Scale MP-2016.

The RP-2014 Headcount-Weighted Mortality Tables, set forward one year for spouses and beneficiaries, reasonably reflect the projected mortality experience of the Plan as of the measurement date. The additional projection of 6 years is a provision made for future mortality improvement.

⁽¹⁾ The RP-2014 Healthy Annuitant Mortality Tables have rates only for ages 50 and later.

NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021

FY 21: Post-Retirement Mortality Rates:

Healthy:

Regular Members: Pub-2010 General Healthy Retiree Amount-Weighted Above-Median Mortality Table (separate tables for males and females) with rates increased by 30% for males and 15% for females, projected generationally with the two-dimensional monthly improvement scale MP-2020.

The above listed mortality tables only provide rates for ages 50 and older. To develop mortality rates for ages 40 through 50, we have smoothed the difference between the rates at age 40 from the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables and the rates at age 50 from the Pub-2010 General Healthy Retiree Amount-Weighted Above-Median Mortality Tables. To develop the mortality rates before age 40, we have used the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables rates. This methodology for developing an extended annuitant mortality table is similar to the method used by the IRS to develop the base mortality table for determining minimum funding standards for single-employer defined benefit pension plans under Internal Revenue Code Section 430. While Section 430 is not applicable to the System, we believe this is a reasonable method for developing annuitant mortality rates at earlier ages.

Police/Fire Members: Pub-2010 Safety Healthy Retiree Amount-Weighted Above-Median Mortality Table (separate tables for males and females) with rates increased by 30% for males and 5% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

The above listed mortality tables only provide rates for ages 45 and older. To develop mortality rates for ages 35 through 45, we have smoothed the difference between the rates at age 35 from the Pub-2010 Safety Employee Amount-Weighted Above-Median Mortality Tables and the rates at age 45 from the Pub-2010 Safety Healthy Retiree Amount-Weighted Above-Median Mortality

**NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021**

FY 21: Post-Retirement Mortality Rates:
(continued):

Tables. To develop the mortality rates before age 35, we have used the pub-2010 Safety Employee Amount-Weighted Above-Median Mortality Tables rates. This methodology for developing an extended annuitant mortality table is similar to the method used by the IRS to develop the base mortality table for determining minimum funding standards for single-employer defined benefit pension plans under Internal Revenue Code Section 430. While Section 430 is not applicable to the System, we believe this is a reasonable method for developing annuitant mortality rates at earlier ages.

Disabled:

Regular Members: Pub-2010 Non-Safety Disabled Retiree Amount-Weighted Mortality Table (separate tables for males and females) with rates increased by 20% for males and 15% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

Police/Fire Members: Pub-2010 Safety Disabled Retiree Amount-Weighted Mortality Table (separate tables for males and females) with rates increased by 30% for males and 10% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

Beneficiaries:

Regular and Police/Fire Current Beneficiaries in Pay Status: Pub-2010 Contingent Survivor Amount-Weighted Above-Median Mortality Table (separate tables for males and females) with rates increased by 15% for males and 30% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

The above listed mortality table only provides rates for ages 45 and older. To develop mortality rates for ages 35 through 45, we have smoothed the difference between the rates at age 35 from the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables and the rates at

NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021

FY 21: Post-Retirement Mortality Rates:
(continued):

age 45 from the Pub 2010 Contingent Survivor Amount-Weighted Above-Median Mortality Tables. To develop the mortality rates before age 35, we have used the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables rates. This methodology for developing an extended annuitant mortality table is similar to the method used by the IRS to develop the base mortality table for determining minimum funding standards for single-employer defined benefit pension plans under Internal Revenue Code Section 430. While Section 430 is not applicable to the System, we believe this is a reasonable method for developing annuitant mortality rates at earlier ages.

Regular and Police/Fire Contingent

Beneficiaries: Pub-2010 General Healthy Retiree Amount-Weighted Above-Median Mortality Table (separate tables for males and females) with rates increased by 30% for males and 15% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

The above listed mortality tables only provide rates for ages 50 and older. To develop mortality rates for ages 40 through 50, we have smoothed the difference between the rates at age 40 from the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables and the rates at age 50 from the Pub-2010 General Healthy Retiree Amount -Weighted Above-Median Mortality Tables. To develop the mortality rates before age 40, we have used the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables rates. This methodology for developing an extended annuitant mortality table is similar to the method used by the IRS to develop the base mortality table for determining minimum funding standards for single-employer defined benefit pension plans under Internal Revenue Code Section 430.

NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021

FY 21: Post-Retirement Mortality Rates:
(continued):

While Section 430 is not applicable to the System, we believe this is a reasonable method for developing annuitant mortality rates at earlier ages.

For the mortality table applicable to contingent beneficiaries, “Approach 1” from the Society of Actuaries “Pub-2010 Public Retirement Plans Mortality Tables Report” (as noted on page 68) was utilized. In particular, the mortality basis for contingent beneficiaries has been assumed to be the same mortality basis as the Healthy Regular retiree table listed above (except using rates applicable to the beneficiary’s gender) for both when the primary retiree is alive and is no longer alive.

The Pub-210 Amount-Weighted Mortality Tables (with loading factors as described above) reasonably reflect the projected mortality experience of the Plan as of the measurement date. The generational projection is a provision made for future mortality improvement.

FY 21: Pre-Retirement Mortality Rates:

Regular Members: Pub-2010 General Employee Amount-Weighted Above-Median Mortality Table (separate tables for males and females), projected generationally with the two-dimensional mortality improvement scale MP-2020.

Police/Fire Members: Pub-2010 Safety Employee Amount-Weighted Above-Median Mortality Table separate tables for males and females). Projected generationally with the two-dimensional mortality improvement scale MP-2020.

FINANCIAL SECTION

**NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021**

The Pub-2010 Amount-Weighted Mortality Tables reasonably reflect the projected mortality experience of the plan as of the measurement date. The generational projection is a provision made for future mortality improvement.

Pre-Retirement Mortality Rates (%)

Age	<u>Regular</u>		<u>Police/Fire</u>	
	Male	Female	Male	Female
20	0.04	0.01	0.04	0.02
25	0.02	0.01	0.03	0.02
30	0.03	0.01	0.04	0.02
35	0.04	0.02	0.04	0.03
40	0.06	0.03	0.05	0.04
45	0.09	0.05	0.07	0.06
50	0.13	0.08	0.10	0.08
55	0.19	0.11	0.15	0.11
60	0.28	0.17	0.23	0.15
65	0.41	0.27	0.35	0.20
70	0.61	0.45	0.66	0.39

Note that generational projections beyond the base year (2010) are not reflected in the above mortality rates. Deaths that occur during the first two years of employment are assumed to be non-duty related.

**NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021**

Changes in Actuarial Assumptions and Methods:	Based on the June 30,2020 Actuarial Experience Study, the following assumptions were changed. Previously, these assumptions were as follows:
Investment Rate of Return:	7.5%
Assumed Inflation Rate:	2.75% per annum
Projected Salary Increases:	
Inflation:	2.75% Plus
Productivity Pay Increases:	0.50 Plus

Promotional and merit salary increases:

<u>Years of Service</u>	<u>Regular</u>	<u>Police/Fire</u>
Less than 1	5.90%	10.65%
1	4.80	7.15
2	4.00	5.20
3	3.60	4.60
4	3.30	4.30
5	3.00	4.15
6	2.80	3.90
7	2.70	3.50
8	2.50	3.15
9	2.35	2.90
10	2.15	2.50
11	1.75	1.90
12	1.50	1.50
13	1.25	1.30
14	1.10	1.30
15 or more	1.00	1.30

**NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2021**

Total Payroll Growth:	Regular: 5.5% Police/Fire: 6.5%
Post-Retirement Benefit Increases:	For current retirees and beneficiaries, future Post-Retirement Benefit Increases reflect actual changes in historical CPI and are assumed to follow the formulas described in Exhibit III of the Actuarial Valuation. For future retirees, those hired prior to 2010 are assumed to reach the cap after 16 years of retirement. Those hired between 2010 and 2015 are also assumed to reach the cap after 15 years of retirement. Those hired after 2015 are assumed to never receive an annual increase that exceeds 2.75%. Underlying all of those assumptions is the CPI will grow over time at a rate of 2.75% per year.
Mortality Rates:	
Healthy:	Headcount-Weighted RP-2014 Healthy Annuitant Table projected to 2020 with Scale MP-2016, set forward one year for spouses and beneficiaries. For ages less than 50 ⁽¹⁾ , mortality rates are based on the Headcount-Weighted RP-2014 Employee Mortality Tables. Those mortality rates are adjusted by the ratio of the mortality rate for members at age 50 to the mortality rate at age 50 from the Employee mortality tables listed above. The mortality rates are then projected to 2020 with Scale MP-2016.
Disabled:	Headcount-Weighted RP-2014 Disabled Retiree Table, set forward four years.
Pre-Retirement:	Headcount-Weighted RP-2014 Employee Table, projected to 2020 with Scale MP-2016.

The RP-2014 Headcount-Weighted Mortality Tables, set forward one year for spouses and beneficiaries, reasonably reflect the projected mortality experience of the Plan as of the measurement date. The additional projection of 6 years is a provision made for future mortality improvement.

1. The RP-2014 Healthy Annuitant Mortality Tables have rates only for ages 50 and later.

OTHER SUPPLEMENTARY INFORMATION

SCHEDULE OF ADMINISTRATIVE EXPENSES

For the Year Ended June 30, 2021

Personnel services:		
Staff payroll and benefits	\$ 6,877,912	
Board fees	10,400	
Total personnel services		\$ 6,888,312
In-state travel:		
Staff	4,326	
Board	262	
Police/Fire committee	-	
Total in-state travel		4,588
Operating:		
Office supplies	22,721	
Postage and freight	370,603	
Communications	27,812	
Printing	222,821	
Publications and periodicals	648	
Bonds and insurance premiums	18,734	
Contract services	1,027,459	
Vehicle expense	1,266	
Equipment rental and repair	16,908	
Building rental	506,730	
License and fees	2,820	
Client communication	17,048	
Dues and registration	33,210	
Medical expenses	44,982	
Litigation expense	63,033	
Furniture and Equipment	25,669	
Total operating		2,402,464
Equipment and office furniture, net		14,385
Information technology, net		3,201,004
Training		15,850
State cost allocation		3,723
Total administrative expenses		\$ 12,530,326

OTHER SUPPLEMENTARY INFORMATION

SCHEDULE OF INVESTMENT EXPENSES

For the Year Ended June 30, 2021

Investment management fees	\$ 61,581,401
Investment consulting fees	<u>868,385</u>
Subtotal investment management and consulting fees	62,449,786
Administrative Investment Expenses	<u>1,164,794</u>
Total Investment Expenses	<u><u>\$ 63,614,580</u></u>

SCHEDULE OF PAYMENTS TO CONSULTANTS

For the Year Ended June 30, 2021

Actuary		
Segal	\$	503,660
Independent Auditors		
Macias Gini & O'Connell LLP		173,494
Clifton Larson Allen LLP		111,500
Administrative Legal Counsel		
McDonald Carano		91,389
Medical Consultant		
R Fliegler, M.D.		43,992
Kathleen Stoner, R.N.		720
Terry R. Long		<u>270</u>
Total payments to consultants	\$	<u><u>925,025</u></u>

Notes: Information on payments made to investment professionals can be found in the Investment Section.

OTHER SUPPLEMENTARY INFORMATION

COMBINING SCHEDULE OF FIDUCIARY NET POSITION

June 30, 2021

(With Comparative Totals for June 30, 2020)

	<u>Regular</u>	<u>Police/Fire</u>	<u>Eliminations</u>	<u>Total Pension Trust Fund 2021</u>	<u>Total Pension Trust Fund 2020</u>
ASSETS					
Cash and cash equivalents	\$ 705,534,396	\$ -	\$ -	\$ 705,534,396	\$ 773,941,346
Contributions receivable	190,228,841	-	-	190,228,841	170,348,048
Pending trades receivable	719,321,011	-	-	719,321,011	599,026,854
Accrued investment income	156,089,782	-	-	156,089,782	143,688,471
Investments, at fair value	57,468,665,112	-	-	57,468,665,112	45,668,267,819
Collateral on loaned securities, at fair value	174,487,304	-	-	174,487,304	205,982,715
Property and equipment	48,629,942	-	-	48,629,942	46,556,109
Accumulated depreciation	(43,481,270)	-	-	(43,481,270)	(42,682,996)
Net property and equipment	<u>5,148,672</u>	<u>-</u>	<u>-</u>	<u>5,148,672</u>	<u>3,873,113</u>
Other assets	4,769,353	-	-	4,769,353	4,131,236
Due from other funds- equity in investments	<u>-</u>	<u>13,418,944,080</u>	<u>(13,418,944,080)</u>	<u>-</u>	<u>-</u>
Total plan assets	<u>59,424,244,471</u>	<u>13,418,944,080</u>	<u>(13,418,944,080)</u>	<u>59,424,244,471</u>	<u>47,569,259,602</u>
LIABILITIES					
Accounts payable and accrued expenses	39,503,999	-	-	39,503,999	21,062,690
Pending trades payable	751,768,813	-	-	751,768,813	607,096,841
Due to other funds	13,418,944,080	-	(13,418,944,080)	-	-
Obligations under securities lending activities	<u>174,487,304</u>	<u>-</u>	<u>-</u>	<u>174,487,304</u>	<u>205,982,715</u>
Total plan liabilities	<u>14,384,704,196</u>	<u>-</u>	<u>(13,418,944,080)</u>	<u>965,760,116</u>	<u>834,142,246</u>
Net position restricted for pension benefits	<u>\$ 45,039,540,275</u>	<u>\$ 13,418,944,080</u>	<u>\$ -</u>	<u>\$ 58,458,484,355</u>	<u>\$ 46,735,117,356</u>

FINANCIAL SECTION

OTHER SUPPLEMENTARY INFORMATION COMBINING SCHEDULE OF CHANGES IN FIDUCIARY NET POSITION

For the Year Ended June 30, 2021

(With Comparative Totals for the Year Ended June 30, 2020)

	<u>Regular</u>	<u>Police/Fire</u>	<u>Total Pension Trust Fund 2021</u>	<u>Total Pension Trust Fund 2020</u>
ADDITIONS				
Contributions:				
Employer	\$ 811,810,963	\$ 240,127,072	\$ 1,051,938,035	\$ 1,045,108,804
Plan members	811,810,963	240,127,072	1,051,938,035	1,045,108,804
Repayment and purchase of service	49,803,060	20,154,966	69,958,026	67,038,909
Total contributions	<u>1,673,424,986</u>	<u>500,409,110</u>	<u>2,173,834,096</u>	<u>2,157,256,517</u>
Investment income:				
Net appreciation (depreciation) in fair value of investments	11,712,776,483	-	11,712,776,483	2,162,384,222
Interest	177,842,092	-	177,842,092	268,591,378
Dividends	645,827,624	-	645,827,624	640,135,686
Other investment income	126,075,176	-	126,075,176	119,982,070
	<u>12,662,521,375</u>	<u>-</u>	<u>12,662,521,375</u>	<u>3,191,093,356</u>
Less investment fees and other expense	<u>(63,614,580)</u>	<u>-</u>	<u>(63,614,580)</u>	<u>(57,703,435)</u>
Net investment income	<u>12,598,906,795</u>	<u>-</u>	<u>12,598,906,795</u>	<u>3,133,389,921</u>
Securities lending income	3,764,305	-	3,764,305	8,769,170
Less securities lending expense	<u>(580,816)</u>	<u>-</u>	<u>(580,816)</u>	<u>(4,682,914)</u>
Net securities lending income	<u>3,183,489</u>	<u>-</u>	<u>3,183,489</u>	<u>4,086,256</u>
Total net investment income	<u>12,602,090,284</u>	<u>-</u>	<u>12,602,090,284</u>	<u>3,137,476,177</u>
Other income	<u>2,399,806</u>	<u>862,503</u>	<u>3,262,309</u>	<u>3,070,029</u>
Total additions	<u>14,277,915,076</u>	<u>501,271,613</u>	<u>14,779,186,689</u>	<u>5,297,802,723</u>
DEDUCTIONS				
Benefit payments:				
Retirement and survivor benefits	2,287,583,630	601,725,414	2,889,309,044	2,689,113,774
Disability	89,474,066	29,783,921	119,257,987	115,920,727
Refunds of contributions	23,343,804	6,929,058	30,272,862	29,504,997
Transfer of contributions	4,424,263	-	4,424,263	-
Administrative expenses	12,530,326	-	12,530,326	12,398,157
Other expenses	932	24,276	25,208	295
Total deductions	<u>2,417,357,021</u>	<u>638,462,669</u>	<u>3,055,819,690</u>	<u>2,846,937,950</u>
Increase (decrease) in net position	11,860,558,055	(137,191,056)	11,723,366,999	2,450,864,773
Transfers:				
Interfund transfers	(1,216,398)	1,216,398	-	-
Transfer of annual investment income	(2,885,878,676)	2,885,878,676	-	-
Transfer of administrative fees	1,226,619	(1,226,619)	-	-
Total transfers	<u>(2,885,868,455)</u>	<u>2,885,868,455</u>	<u>-</u>	<u>-</u>
Net position restricted for pension benefits:				
Beginning of year	<u>36,064,850,675</u>	<u>10,670,266,681</u>	<u>46,735,117,356</u>	<u>44,284,252,583</u>
End of year	<u>\$ 45,039,540,275</u>	<u>\$ 13,418,944,080</u>	<u>\$ 58,458,484,355</u>	<u>\$ 46,735,117,356</u>



INVESTMENT SECTION

CURRENT INVESTMENT ADVISORS

INVESTMENT CONSULTANTS

Callan Associates, Inc.
Jobs Peak Advisors

INVESTMENT COUNSEL

U.S. Stocks:
AllianceBernstein
BlackRock

International Stocks:
Mellon Capital
State Street Global Advisors

U.S. Bonds:
Payden & Rygel
State Street Global Advisors

Private Equity:
Pathway Capital Management

Private Real Estate:
AEW
Invesco Real Estate

Securities Lending:
The Bank of New York Mellon



September 30, 2021

The Public Employees' Retirement System of Nevada (PERS) investment portfolio finished the fiscal-year on June 30, 2021 with the second largest annual return on record at 27.3% (net).

Following a year of substantial fiscal and monetary stimulus, the U.S. stock market, as represented by the S&P 500 index of large capitalization stocks, earned 40.7% (net). PERS private equity portfolio returned 67.6% (net) as the portfolio benefited from a number of successful exits through acquisition and Initial Public Offering. The Private Real Estate portfolio allocation earned strong returns as well, earning 10.3% (net). As a result of these strong returns, PERS AUM increased approximately \$12 billion to finish the year at \$58.3 billion.

Fiscal year 2021 was a time period spent entirely under pandemic conditions. The boon in U.S. stock returns was driven by an overweight to the technology and healthcare sectors relative to Non-U.S. markets which profited from consumer shifts in demand for products and services. The U.S. Treasury market experienced abnormal volatility as the economy adapted to a steady increase in inflation due to supply chain disruptions and stimulus.

In March 2020, the Board of Nevada PERS approved the transition to a new benchmark for the portfolio's fixed income allocation from the Bloomberg Barclays U.S. Treasury Index to the Bloomberg Barclays 1-3 Year U.S. Treasury Index. The migration to assets with shorter maturity dates reduced the risk of the bond allocation and the overall risk profile of the total fund. During the third quarter of FY2021, the U.S. Treasury 10-year yield rose to 1.74% in two weeks and then fluctuated around 1.50% for the remainder of the year. The PERS bond portfolio was shielded from this abnormal volatility and earned an annual return of 0.1% (net) while the full duration index earned -3.2%.

The total return for the portfolio for FY2021 was 27.3% (net), over 3 times the annual expected rate of return of 7.5%. The strong performance of the fund over 5 years (12.4% (net)) and 10 years (9.9% (net)) places PERS in the 11th and 8th percentiles of large public defined benefit plans, respectively. Since inception, over the past 37 years, the Nevada PERS portfolio has earned 9.6% (net), ranking the plan higher than 80% of large public plans.*

Asset Allocation for Nevada PERS as of fiscal year-end 2021 was 44.3% in U.S. stocks, 17.8% in International stocks, 25.1% in U.S. bonds, 4.5% in Private Real Estate, 7.3% in Private Equity and 1.0% in cash. The diversifying effects of the current short duration bond portfolio to PERS' large exposure to growth assets will help dampen the impact of equity market volatility.

A handwritten signature in black ink, appearing to read "Julia Bonafede".

Julia Bonafede, CFA
President

*Peer group rankings are presented gross of asset management fees for comparison purposes.

INVESTMENT SECTION

INVESTMENT REVIEW

Introduction

The investment program is designed to generate a long-term return that meets the System's objective while minimizing risk. The structure and administration of the portfolio is defined by the prudent person standard. The standard states that the Board may invest the System's funds in every type of investment which persons of prudence, discretion, and intelligence acquire or retain for their own account under similar circumstances. The Board's investment philosophy centers on time tested investment principles such as maintaining consistent exposure to the capital markets, buying assets at lower prices and selling them at higher prices through disciplined rebalancing, and keeping costs low by utilizing index management. Developing a sound long-term investment strategy and faithfully adhering to that strategy in both strong and weak market environments has been a key element in the fund's success.

The System's investment assets reported in the Investment Section are presented on the same basis of accounting as described in Note 1 of the Notes to Financial Statements, fair value.

The System's Investment Objectives and Policies detail the fund's long-term investment goals, management responsibilities, return/risk expectations, and monitoring requirements. These policies are subject to change at any time by the Board and are reviewed thoroughly at least annually to ensure that they continue to reflect the System's expectations.

Objective

The investment objective of the System is to:

- Generate a 7.5% long-term investment return which exceeds the rate of inflation (CPI) by 4.75% by capturing market returns within each asset class.
- Invest so that the short-term volatility of returns will not cause the System to alter its long-term strategy.
- Structure an investment program which is sufficiently uncomplicated to control the ability to consistently meet return and risk objectives.

Chart 1, on page 82, demonstrates that the investment portfolio, over the last ten years, has captured the real return (inflation) objective in seven of those years. The objective was CPI + 3.0% until September 30, 2000; CPI + 3.5% from October 1, 2000 through September 30, 2002; CPI + 3.75% from October 1, 2002 through September 30, 2003; CPI + 4.5% from October 1, 2003 through November 30, 2017; and CPI + 4.75% thereafter. Chart 2, on page 82, details annualized returns for long-term periods ended June 30, 2021. The System's 27.3% return for fiscal year 2021 was driven primarily by strong returns from U.S. Stocks, International Stocks, and Private Markets.

Note: Inception on Chart 2 refers to July 1, 1984, the date the System began calculating total return versus annual yield. For all other charts, inception refers to the point at which the System began including that particular investment vehicle in the portfolio.

Asset Allocation

Asset allocation is the most significant factor influencing the risk and return of the investment program. Since inception more than 90% of the System's investment performance is explained by asset allocation. Determination of the fund's long-term asset allocation involves estimating the expected return and risk of major types of investments and blending them into a portfolio which meets the System's risk/return objectives.

To establish an appropriate long-term asset allocation strategy, the Board evaluates expected return and risk for each of the major asset types (stocks, bonds, private markets). These asset classes are then combined in the most efficient manner possible to construct a portfolio that matches the risk and return needs of the fund. By diversifying the System's investments in multiple asset classes, the Board is able to reduce the volatility of annual investment earnings. In addition, the Board employs a disciplined rebalancing policy to manage market volatility and to ensure the portfolio's exposures are consistent with the System's long-term asset targets.

The target allocation for the fund was adopted by the Retirement Board in June 2018 and implemented at the beginning of the 2019 fiscal year. As of June 30, 2021, the target allocation was 28% U.S. Bonds, 42% U.S. Stocks, 18% International Stocks, and 12% Private Markets. The June 30, 2021, asset class allocation by Manager Directive is shown in Chart 3, page 83.

Diversification

After the asset allocation strategy is established, the Board implements a portfolio management structure that is designed to capture the market objective in each asset class. The most efficient and cost-effective way to capture market returns is by gaining market exposures through fully replicated index funds. As a result, the System employs a 100% index structure in all public market asset classes. The U.S. Stock allocation is indexed to the S&P 500 Index, which represents roughly 80% of the total U.S. stock market capitalization. Similarly, the International Stock allocation is 100% indexed to the MSCI World ex USA Index which represents 85% of the market capitalization within the 22 developed market countries included in the index. Combined, the System's total stock exposure represents more than 80% of the global public equity market.

The System's fixed income allocation has historically emphasized index management and in fiscal year 2015 the Board elected to move to a 100% U.S. Treasury Index structure. The transition to a 100% Treasury Index structure removed credit risk from the fixed income allocation and increased total fund diversification. The System's overall portfolio is well diversified by asset class, investment structure, and individual security. The System's portfolio currently holds over 1,500 individual securities from 23 different countries.

Chart 4, on page 84, shows the fair value of the assets under management by investment type, category, and manager. A list of the ten largest stock and bond holdings based on fair value at June 30, 2021, is included in Chart 5 on page 85. A complete list of security holdings is available upon request.

INVESTMENT SECTION

Investment Class Objectives

In order to achieve the total fund objectives, each asset type is assigned return objectives (listed below). Progress toward those benchmarks is closely monitored.

- | | | |
|----------------------|---|---|
| U.S. Stocks | – | Produce a total return that captures the Standard & Poor’s 500 Common Stock Index with commensurate volatility. |
| International Stocks | – | Produce a total return that captures the unhedged Morgan Stanley Capital International World ex USA Index with commensurate volatility. |
| U.S. Bonds | – | Produce a total return that captures the Bloomberg Barclays U.S. Treasury 1-3 Year Index with commensurate volatility. |
| Private Markets | – | Produce a total return that captures the blended return (based on PERS’ actual allocation) of: the National Council of Real Estate Investment Fiduciaries (NCREIF) Property Index -0.75%, and S&P 500 Index + 3% over rolling 10-year periods with commensurate volatility. |

Each of the System’s investment managers agrees to a performance benchmark which, when all the benchmarks in an investment class are combined, is expected to produce the class objective.

Investment Performance

The System’s custody bank calculates performance for the total fund, each asset class, and individual investment management firms employed by the Board. Performance calculations are prepared using time-weighted rate of return based on fair values. Returns in this report are gross of fees.

Chart 6, shown on page 86, shows a year-by-year comparison of how the total fund and each investment class compared with its corresponding objective.

Charts 7-9, on pages 87-88, compare 1, 3, 5, 10-year, and since-inception returns for each asset class to the corresponding objective for periods ended June 30, 2021.

Chart 10, on page 88, shows Private Markets returns for the fiscal year ended June 30, 2021, compared to since-inception returns using a blended objective.

Nevada PERS’ portfolio generated a 27.3% return in fiscal year 2021. This performance represents the second strongest fiscal year return in the fund’s history and the highest return in more than three decades. The fiscal year 2021 return was driven primarily by U.S. Stocks, International Stocks and Private Markets. U.S. Stocks produced the strongest fiscal year return in the funds’ history at 40.7% and are up 14.8% for the ten-year period ended June 30, 2021. The System employs a 100% indexed structure in the asset class which keeps costs low and minimizes the variability of returns that is traditionally associated with active management.

While International stocks underperformed U.S. stocks for the fourth consecutive fiscal year, the 33.7% return in fiscal year 2021 represents the strongest single year return for the asset class since the fund’s inception. Country exposure in the international equity allocation is entirely in developed markets, and like the U.S. Equity portfolio, the allocation employs a 100% indexed structure. In the 2019 fiscal year the

System transitioned the international stock benchmark index from the MSCI EAFE Index to the MSCI World ex USA Index, adding Canadian stocks to the allocation.

The U.S. Bond allocation is 100% invested in U.S. Treasury securities. Limiting the fixed income allocation to U.S. Treasuries removes credit risk from the allocation which increases diversification at the total fund level. In response to an historic decline in interest rates, over the course of March and April 2020, the U.S. Bond allocation was transitioned from the Bloomberg Barclays U.S. Treasury Index to the Bloomberg Barclays U.S. Treasury 1-3 Year Index. The move to a shorter duration benchmark was intended to insulate the portfolio from potential losses should interest rates rise from historic lows. During the 2021 fiscal year, the U.S. Treasury 10-year yield rose from 0.66% to 1.47%. The U.S. bond portfolio was shielded from the move higher in rates producing a return of 0.1%, while the return of the full duration index was -3.2% for the same period.

The Private Markets portfolio, which is comprised of private real estate and private equity, has 17¾ years of performance history as an asset class. Both private real estate and private equity produced strong absolute returns during fiscal year 2021, and the total Private Markets portfolio eclipsed the market objective for the period.

This report has been prepared in conjunction with the System's investment consultants, Jobs Peak Advisors and Callan Associates.

Basis of presentation

Investment information is presented differently in the Investment and the Financial sections of the ACFR. The methodology used in the Investment Section, as well as in online investment materials and board meeting investment presentations, follows common investment industry practices that reflect the way the portfolio is managed. This methodology provides timely information that is easily compared to benchmarks and other pension funds' performance.

In the Financial section, the investment information is reported in conformity with generally accepted accounting principles in the United States. The main difference from the Investment section is that transactions are reported on an accrual basis, rather than when the transactions actually occurred. In the basic financial statements the System accounts for securities using the "country of issue" methodology. Under this methodology, regardless of the manager's directive, if a manager invests funds and the underlying country of issue for the security is not the United States, then the securities are classified as international. In the Investment Section, however, the same securities are classified by investment manager's directive, not taking into consideration the country the security was issued in. (See Charts 6 and 11)

In the Financial Section, in regard to real estate investments, the value is based on third-party appraisals net of outstanding debt. Also, in regard to private equity, the investments are based on investments reported at the net asset value (NAV) from the prior quarter and adjusted for cash flows in last quarter of the fiscal year.

Finally, in the Management's Discussion and Analysis portion of the Financial Section, the System includes the time-weighted, gross of fees returns to explain the change in the investment fair value and change in the investment income during the current year. The Financial Section also includes the money-weighted return, net of fees in Note 5 on page 37.

INVESTMENT SECTION

INVESTMENT PERFORMANCE VS. OBJECTIVE

CHART 1

**Individual Fiscal Year Return vs. Inflation Objective
Periods Ended June 30**

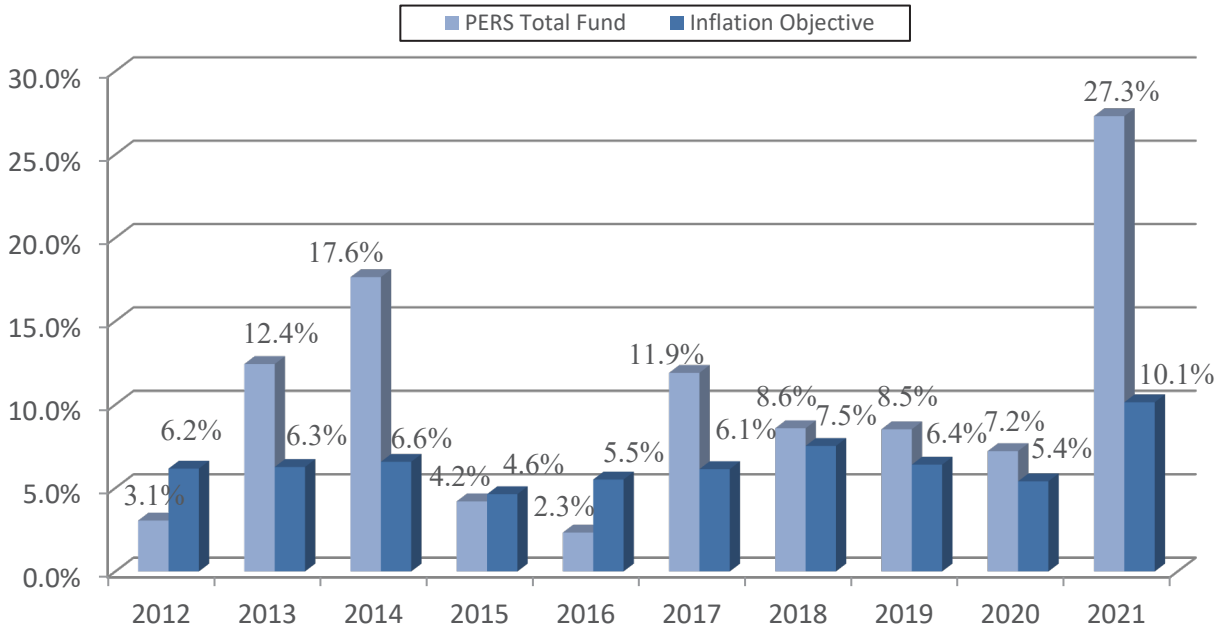
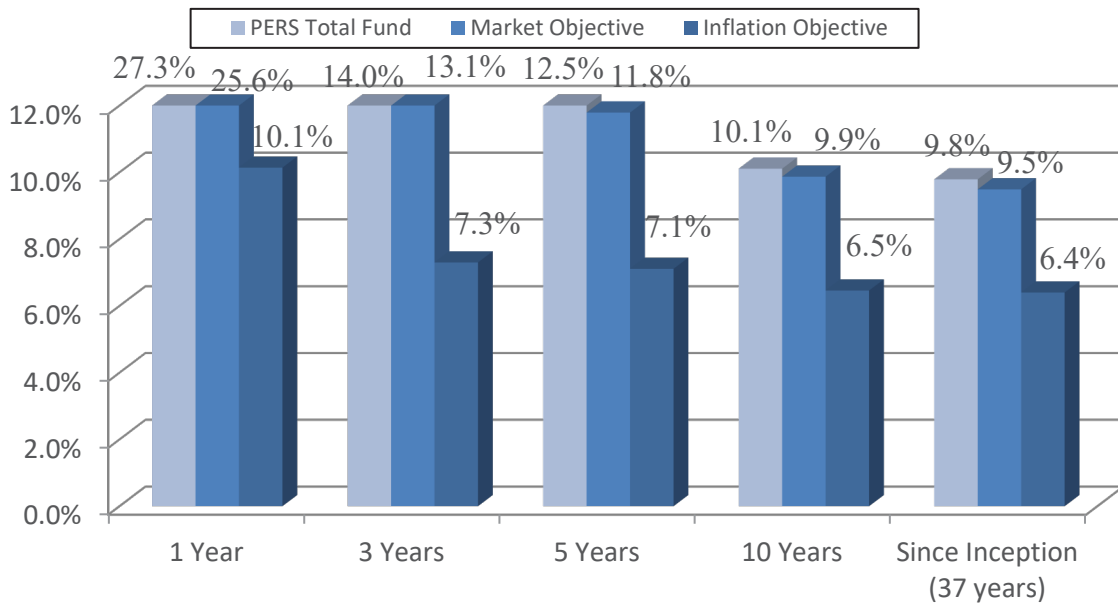


CHART 2

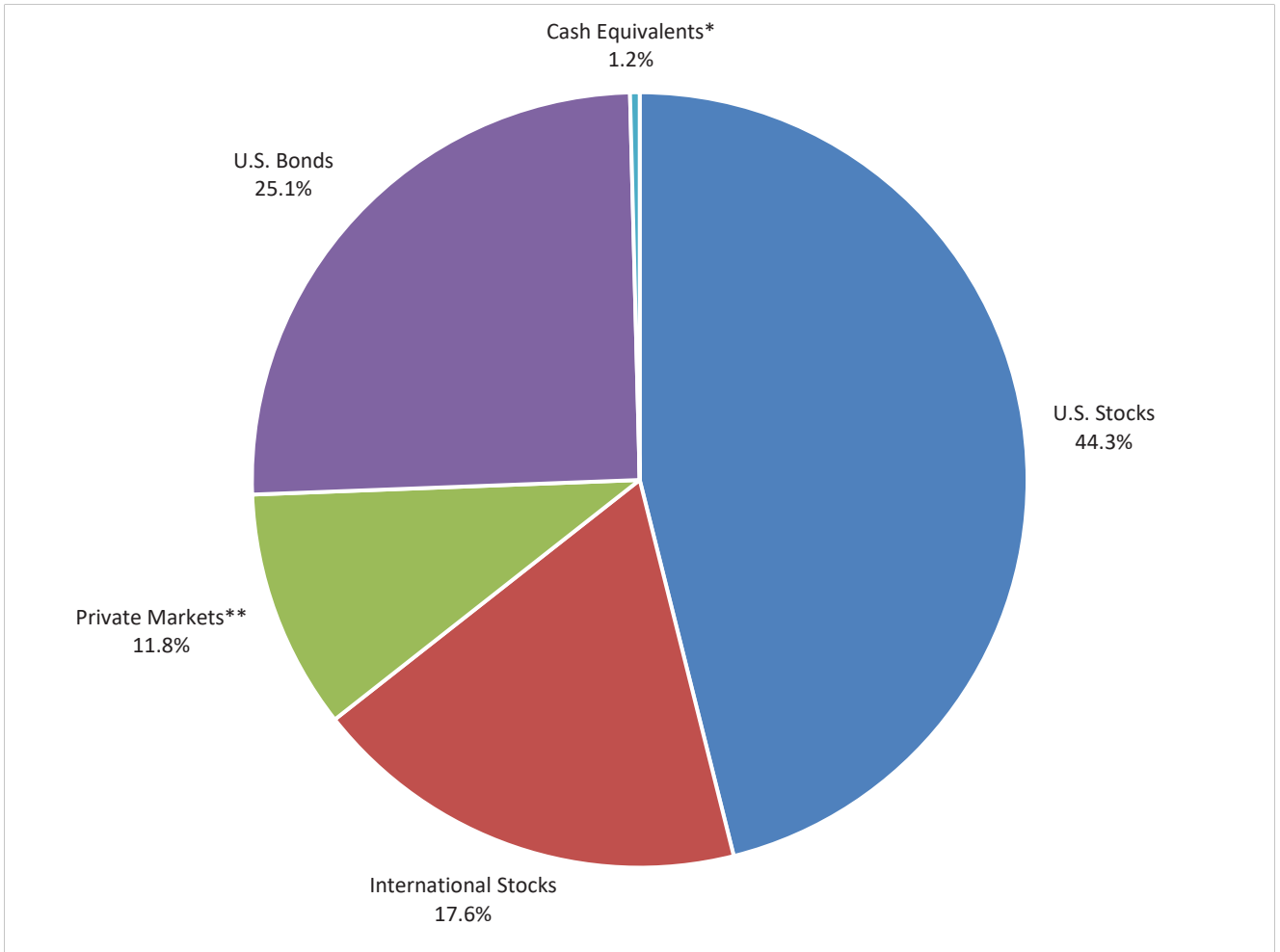
**Annualized Total Returns vs. Market Objective and Inflation Objectives *
As of June 30, 2021**



*CPI + 3.0% until September 2000, CPI + 3.5% from October 1, 2000 through September 30, 2002, CPI + 3.75% from October 1, 2002 through September 30, 2003, CPI + 4.50% from October 1, 2003 through November 30, 2017 and CPI + 4.75% thereafter.

Performance calculations are prepared using time-weighted rate of return (gross of fees) based on fair values.

CHART 3
ASSET MIX
JUNE 30, 2021



***Includes cash held by investment managers.**

****Includes 7.3% Private Equity and 4.5% Private Real Estate.**

INVESTMENT SECTION

CHART 4

Fair Value of Assets by Investment Directive June 30, 2021

	<u>Fair Value</u>	<u>Percent of Total Fair Value</u>
STOCKS		
<u>U.S. Stock Index Managers</u>		
AB - S&P	\$ 12,869,767,757	
BlackRock - S&P 500	<u>12,883,596,932</u>	
Subtotal	25,753,364,689	44.3
<u>International Stock Index Managers</u>		
Mellon Capital	5,127,659,989	
State Street Global Advisors	<u>5,145,185,037</u>	
Subtotal	10,272,845,026	17.6
<u>Private Equity</u>		
Pathway Capital Management	<u>4,231,478,443</u>	
Subtotal	4,231,478,443	<u>7.3</u>
Total Equities	<u>\$ 40,257,688,158</u>	<u>69.2</u>
BONDS		
<u>U.S. Bond Index Managers</u>		
Payden & Rygel - US Bond Index	7,295,976,898	
State Street Global Advisors	<u>7,288,343,943</u>	
Total Bonds	<u>14,584,320,841</u>	<u>25.1</u>
PRIVATE REAL ESTATE		
AEW Realty	1,293,316,632	
Invesco Realty Advisors	1,330,264,164	
Invesco Realty Advisors Takeover	<u>3,075,317</u>	
Total Private Real Estate	<u>2,626,656,113</u>	<u>4.5</u>
SHORT-TERM INVESTMENTS		
Cash Equivalents	694,189,543	
Total Short-Term Investments	<u>694,189,543</u>	<u>1.2</u>
TOTAL PORTFOLIO	<u>\$ 58,162,854,655</u>	<u>100.0</u> %

Total portfolio does not include pending trades receivable of \$719,321,011, accrued interest income of \$156,089,782, and pending trades payable of \$751,768,813

The Statement of Fiduciary Net Position contains \$11,344,853 in administrative cash, which does not appear on this schedule.

In the basic financial statements the System accounts for securities using the "country of issue" methodology. Under this methodology, regardless of the manager's directive, if a manager invests funds and the underlying country of issue for the security is not the United States, then the securities are classified as international. In this chart, however, the securities are classified by investment manager's directive.

CHART 5

LIST OF LARGEST ASSETS HELD

Largest Stock Holdings

June 30, 2021

Ranking	Name	Fair Value
1	APPLE INC	\$ 1,522,606,371
2	MICROSOFT CORP	1,443,194,015
3	AMAZON.COM INC	1,038,649,667
4	FACEBOOK INC	589,158,781
5	ALPHABET INC-CL A	518,443,295
6	ALPHABET INC-CL C	508,930,833
7	BERKSHIRE HATHAWAY INC	373,313,539
8	TESLA INC	366,880,310
9	NVIDIA CORP	350,811,846
10	JPMORGAN CHASE & CO	333,549,153

Largest Bond Holdings

June 30, 2021

Ranking	Name	Fair Value
1	U S TREASURY NOTE 0.125% 7/15/2023	\$ 878,771,546
2	U S TREASURY NOTE 0.250% 6/15/2024	742,681,184
3	U S TREASURY NOTE 0.125% 10/15/2023	706,921,483
4	U S TREASURY NOTE 0.125% 12/15/2023	704,705,892
5	U S TREASURY NOTE 0.250% 5/15/2024	595,501,479
6	U S TREASURY NOTE 0.500% 3/15/2023	594,372,060
7	U S TREASURY NOTE 0.250% 6/15/2023	562,388,899
8	U S TREASURY NOTE 2.000% 11/30/2022	526,018,675
9	U S TREASURY NOTE 0.125% 5/15/2023	510,086,791
10	U S TREASURY NOTE 0.125% 12/31/2022	424,618,163

Note: A complete list of the portfolio's holdings can be obtained upon request.

INVESTMENT SECTION

CHART 6

SUMMARY OF ACTUAL PERFORMANCE VS. OBJECTIVES (% Returns)

	<u>U.S. STOCKS</u>	<u>INT'L STOCKS</u>	<u>U.S. BONDS</u>	<u>INT'L BONDS</u>	<u>PRIVATE MARKETS</u>	<u>TOTAL FUND</u>
<u>Fiscal Year 2012</u>						
Total Return	4.7	-13.6	7.5	0.4	10.4	3.1
Objective	5.5	-13.8	7.5	0.4	12.3	3.6
<u>Fiscal Year 2013</u>						
Total Return	21.3	19.4	-0.3	-5.8	7.7	12.4
Objective	20.6	18.6	-0.7	-5.7	15.8	12.6
<u>Fiscal Year 2014</u>						
Total Return	24.8	23.5	4.6	N/A	14.2	17.6
Objective	24.6	23.9	4.4	N/A	17.9	17.6
<u>Fiscal Year 2015</u>						
Total Return	7.4	-3.9	2.0	N/A	13.9	4.2
Objective	7.4	-4.2	2.0	N/A	11.8	4.1
<u>Fiscal Year 2016</u>						
Total Return	4.0	-9.8	6.3	N/A	8.6	2.3
Objective	4.0	-10.2	6.2	N/A	9.3	2.8
<u>Fiscal Year 2017</u>						
Total Return	17.8	20.5	-2.4	N/A	13.3	11.9
Objective	17.9	20.3	-2.3	N/A	13.5	11.5
<u>Fiscal Year 2018</u>						
Total Return	14.3	7.2	-0.7	N/A	13.4	8.6
Objective	14.4	6.8	-0.7	N/A	12.3	8.2
<u>Fiscal Year 2019</u>						
Total Return	10.4	1.8	7.3	N/A	13.4	8.5
Objective	10.4	1.8	7.2	N/A	10.2	8.3
<u>Fiscal Year 2020</u>						
Total Return	7.4	-5.0	10.2	N/A	4.7	7.2
Objective	7.5	-5.4	10.2	N/A	7.4	6.4
<u>Fiscal Year 2021</u>						
Total Return	40.7	33.7	0.1	N/A	41.8	27.3
Objective	40.8	33.6	0.1	N/A	27.2	25.6

Current Objectives

U.S. Stocks – S&P 500

Int'l Stocks – MSCI World ex USA

U.S. Bonds – Bloomberg Barclays U.S. Treasury 1-3 Year Index

Private Markets – Portfolio weighted blend of NCREIF -0.75%
and S&P 500 + 3%

Total Fund:

Until September 30, 2000 – CPI + 3%

October 1, 2000 – September 30, 2002 – CPI + 3.5%

October 1, 2002 – September 30, 2003 – CPI + 3.75%

October 1, 2003 – November 30, 2017 – CPI + 4.5%

December 1, 2017 – thereafter – CPI + 4.75%

Performance calculations are prepared using time-weighted rate of return (gross of fees) based on fair values.

INVESTMENT PERFORMANCE VS. OBJECTIVE

CHART 7

U.S. Stocks vs. S&P 500
As of June 30, 2021

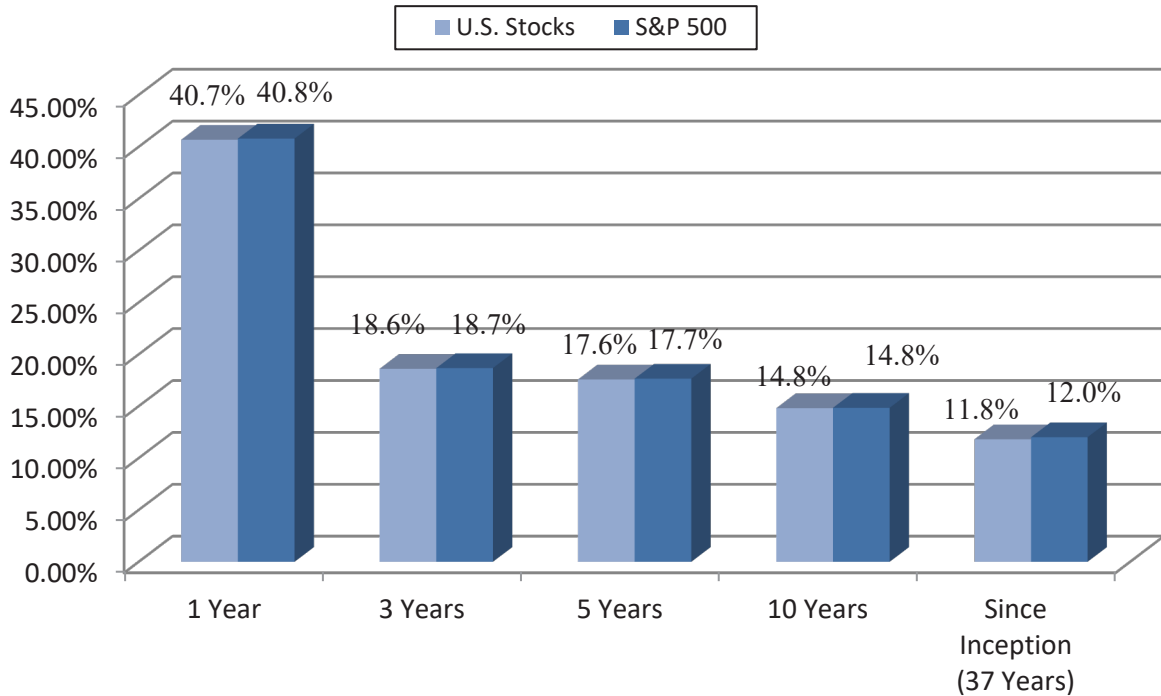
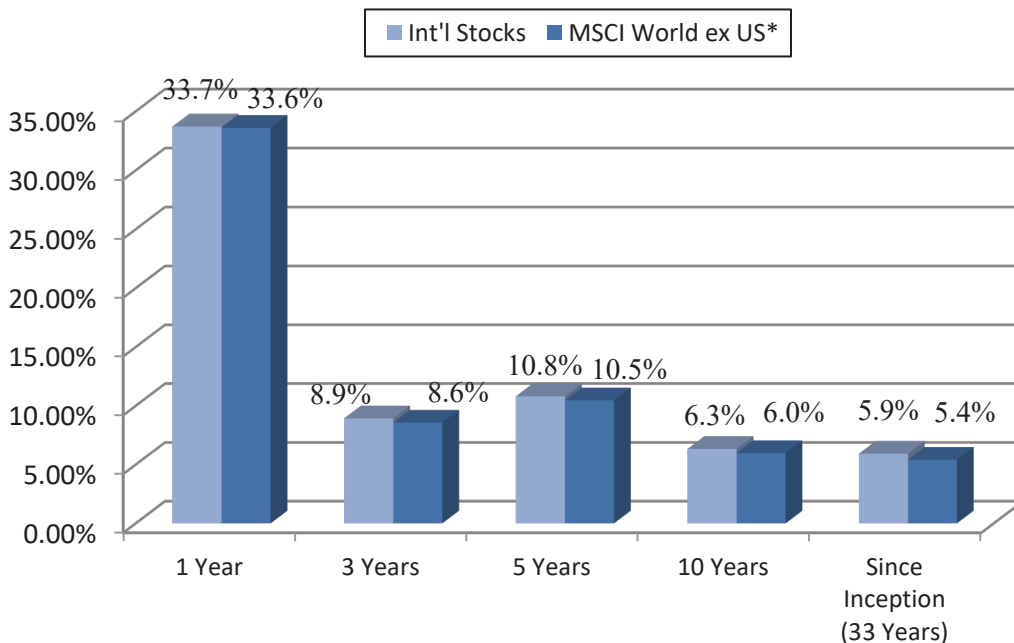


CHART 8

International Stocks vs. MSCI World ex USA
As of June 30, 2021



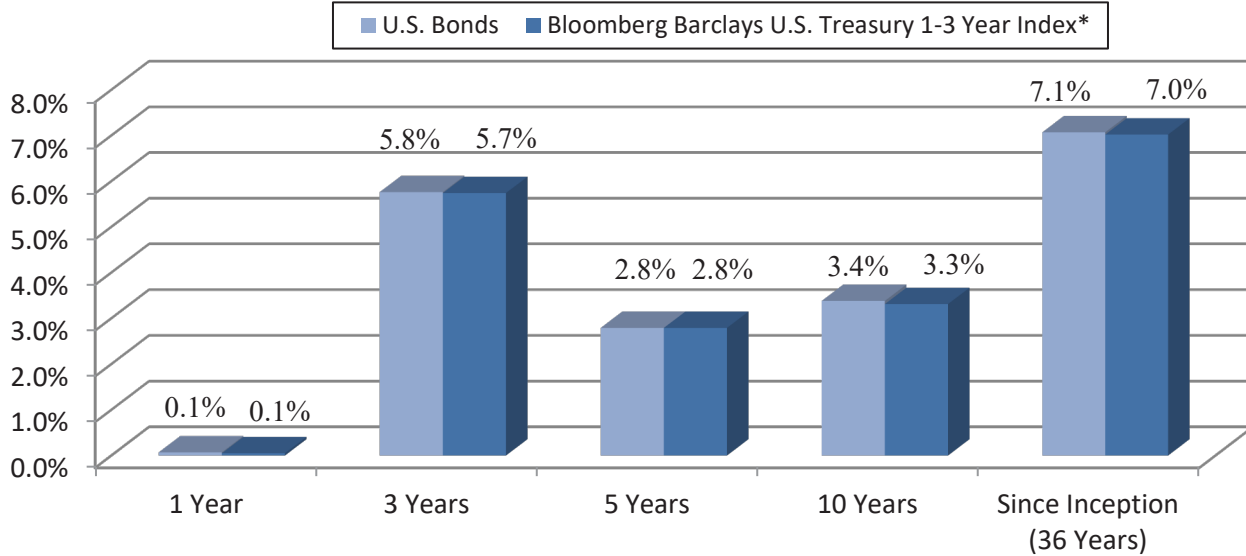
*Int'l Stocks benchmark is the MSCI EAFE Index until 8/1/2018 and the MSCI World ex USA Index thereafter.

INVESTMENT SECTION

INVESTMENT PERFORMANCE VS. OBJECTIVE

CHART 9

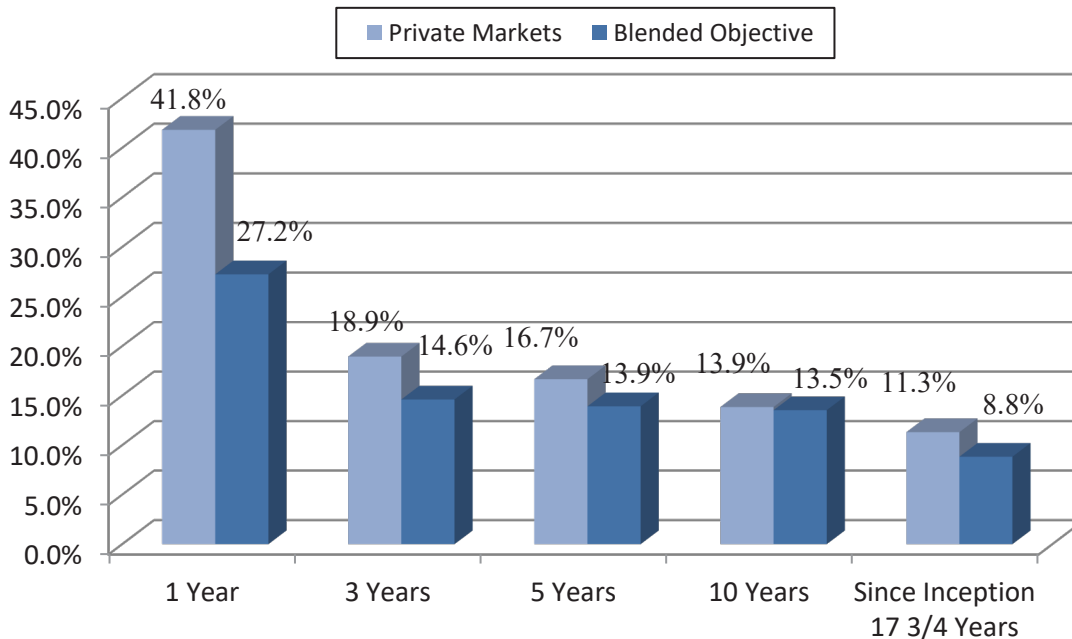
**U.S. Bonds vs. Bloomberg Barclays U.S. Treasury 1-3 Year Index
As of June 30, 2021**



*US Bonds Benchmark is the Bloomberg Barclays US Aggregate Index until 3/31/2015 and the Bloomberg Barclays Treasury Index until 4/30/2020 and the Bloomberg Barclays U.S. Treasury 1-3 Year Index thereafter.

CHART 10

**Private Markets vs. Blended Objective*
As of June 30, 2021**



*Blended Objective:

44.4% NCREIF -0.75%
55.6% S&P 500 + 3.0%

Target adjusted quarterly, based on beginning fair values.

CHART 11

SCHEDULE OF FEES AND COMMISSIONS

For Year Ended June 30, 2021

(Page 1 of 3)

Name/Firm	Investment Mandate	Amount Under Management at June 30, 2021	Fees Incurred
Investment Management Fees			
<u>U.S. and International Stock Managers</u>			
AB S&P 500	U.S. Index	\$ 12,901,233,767	\$ 682,030
BlackRock S&P 500	U.S. Index	12,910,373,129	689,190
Mellon Capital	Int'l Index	5,187,747,655	727,059
State Street Global Advisors	Int'l Index	5,194,732,024	752,529
<u>U.S. Bond Managers</u>			
Payden & Rygel	U. S. Index	7,317,531,505	521,438
State Street Global Advisors Fixed	U. S. Index	7,309,263,708	494,887
<u>Private Equity Manager</u>			
Pathway Capital Management		4,275,684,033	6,237,401
Private Equity General Partner Fees			41,185,589
<u>Private Real Estate Managers</u>			
AEW Realty		1,292,087,675	4,673,885
Invesco Realty Advisors		1,328,799,174	5,603,438
Invesco Realty Advisors Takeover		3,071,864	13,955
Subtotal investment management fees			61,581,401
Investment Consulting Fees			
<u>Investment Consultants</u>			
Callan Associates			384,883
Jobs Peak Advisors			483,502
Subtotal investment consulting fees			868,385
Total investment management and consulting fees			\$ <u>62,449,786</u>

Other investment expenses of \$1,164,794 are not included in the fees listed above.

CHART 11

SCHEDULE OF FEES AND COMMISSIONS

For Year Ended June 30, 2021

(Page 2 of 3)

Brokerage Firm	Number of Shares Traded	Commissions Paid	Commission Per Share (rounded)
ABN AMRO	516,110	\$ 2,119	\$ 0.00 *
Barclays	2,496,440	18,783	0.01
Bernstein	726,512	3,267	0.00 *
BNP Paribas	324,839	1,058	0.00 *
BNY Convergenx	1,164,691	4,184	0.00 *
BTIG	961	5	0.01
Cantor Fitzgerald	1,059	7	0.01
CastleOak	1,100	8	0.01
CIBC	42,000	518	0.01
CIMB	110,200	80	0.00 *
Citation Group	52,343	262	0.01
Citigroup	1,734,593	4,600	0.00 *
CLSA	1,030,259	3,304	0.00 *
Cowen	387,322	1,999	0.01
Credit Lyonnais	1,372,902	3,427	0.00 *
Credit Suisse	4,487,705	11,428	0.00 *
Exane	193,983	839	0.00 *
Goldman Sachs	5,341,346	25,234	0.00 *
HSBC	8,909,494	48,794	0.01
Instinet	7,412,262	41,125	0.01
ITG	3,321,168	14,830	0.00 *
JP Morgan	3,611,507	13,603	0.00 *
Jefferies	778,670	2,049	0.00 *
Macquarie	7,994,311	19,670	0.00 *
Merrill Lynch	11,884,112	95,006	0.01
Morgan Stanley	32,380,435	120,861	0.00 *
Pershing	2,416,938	17,230	0.01
RBC	316,097	2,025	0.01

CHART 11

SCHEDULE OF FEES AND COMMISSIONS

For Year Ended June 30, 2021

(Page 3 of 3)

Brokerage Firm	Number of Shares Traded	Commissions Paid	Commission Per Share (rounded)	
Scotia Capital	51,200	287	0.01	
SG Securities	13,351,557	41,130	0.00	*
Skandinaviska	72,261	11	0.00	*
SMBC Securities	84,100	347	0.00	*
Toronto Dominion	1,864,500	10,248	0.01	
UBS	18,163,218	60,050	0.00	*
Virtu	36,245	91	0.00	*
Wells Fargo	41,955	<u>336</u>	0.01	
Subtotal commissions		<u>568,815</u>		
Total fees and commissions		\$ <u><u>63,018,601</u></u>		

* *Commission is less than one cent per share*

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ACTUARIAL SECTION

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180 Howard Street
Suite 1100
San Francisco, CA 94105-6147
T 415.263.8200
segalco.com

November 30, 2021

Public Employees' Retirement Board
State of Nevada
693 West Nye Lane
Carson City, Nevada 89703

**Re: Certification Letter for Actuarial Section of Financial Report for Fiscal Year Ended
June 30, 2021**

Dear Retirement Board Members:

This letter is to certify that Segal has prepared an actuarial valuation of the Public Employees' Retirement System of the State of Nevada as of June 30, 2021 and that such valuation is accurate and fairly presents the actuarial position of the Public Employees' Retirement System of Nevada.

The unfunded actuarial accrued liability is being amortized by level percentage-of-payroll payments over a year-by-year closed amortization period where each amortization period was set at the truncated average remaining period of all prior amortization layers until the average remaining amortization period was less than 20 years. At that point, amortization periods of 20 years are used. As of June 30, 2021, the funded ratios are 75.3% for Regular employees and 75.6% for Police/Fire employees.

Actuarial valuations are prepared annually by the independent actuary for the Public Employees' Retirement Board. The basic purposes of annual actuarial valuations are to determine the Retirement System's actuarial liabilities and the level percentage-of-payroll contribution rates required to fund the Retirement System on an actuarial reserve basis.

For funding purposes, to amortize the unfunded portion of actuarial accrued liability under the level percentage-of-payroll amortization method, the dollar amounts of calculated amortization payments increase in direct proportion to the assumed payroll growth rates of 3.50% per year for both Regular and Police/Fire employees. These payroll growth rates are based on a 2.50% per year inflation assumption.

The most recent actuarial valuation prepared as of June 30, 2021 is based on the following major elements:

- Current benefit provisions (as specified in the Public Employees' Retirement Act).

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- Membership data as of June 30, 2021 obtained from electronic files provided by the Retirement System. Membership data contained on the electronic files is examined and tested for reasonableness, but is not audited by the actuary.
- Assets as of June 30, 2021 obtained from the System's unaudited financial statements.
- Trend schedules for financial and actuarial sections of the Annual Comprehensive Financial Report (ACFR) as of June 30, 2021 (based upon data from the System, accepted without verification or audit, and upon results of the annual actuarial valuation).
- Actuarial assumptions and methods adopted by the Public Employees' Retirement Board.
- The funding policy adopted by the Retirement Board.

A complete copy of the June 30, 2021 actuarial valuation is available from the System. The actuarial valuation report contains a description of the plan provisions. The Public Employees' Retirement System of the State of Nevada is a cost-sharing multiple employer plan.

Each annual actuarial valuation involves a projection of the benefits expected to be paid in the future to all members of the Retirement System. The projection of expected future benefit payments is based on the benefit provisions in effect on the actuarial valuation date. (See the Plan Summary section of this Annual Financial Report for a summary of current benefit and contribution provisions.)

Segal valuation results are based on proprietary actuarial modeling software. The actuarial valuation models generate a comprehensive set of liability and cost calculations that are presented to meet regulatory, legislative and client requirements. Our Actuarial Technology and Systems unit, comprised of both actuaries and programmers, is responsible for the initial development and maintenance of these models. The models have a modular structure that allows for a high degree of accuracy, flexibility and user control. The client team programs the assumptions and the plan provisions, validates the models, and reviews test lives and results, under the supervision of the responsible actuary.

List of Supporting Schedules

The following schedules and summaries prepared by Segal are included within this Actuarial Section:

- Summary of Actuarial Assumptions and Methods
- Schedules of Funding Progress
- Schedule 1 - Retirement System Membership
- Schedule 2 - Active Member Valuation Data
- Schedule 3 - Pay Status Participants Added to and Removed from the Rolls
- Schedule 4 – Schedule of Funded Liabilities by Type
- Schedule 5 - Analysis of Actuarial Experience
- Schedule 6 – Schedule of Employer Contributions



- Schedule 7 – Schedule of Participating Employers

We have also included the following two items:

- Distribution of Retired Members and Beneficiaries by Type as of June 30, 2021
- New Retired Members for Year Ended June 30, 2021

The Public Employees' Retirement Act requires an adjustment in the statutory contribution rates on July 1 of each odd-numbered year based on the actuarially determined rates indicated in the actuarial valuation report for the immediately preceding even-numbered year. In other words, contribution rate adjustments are driven by valuation results as of July 1 of even-numbered years. Rates are only adjusted upward if the new rates are more than 0.50% higher than the existing rate for Employer-Pay members and if the new rates (for each the employee and the employer) are more than 0.25% higher for Employee/Employer members. Rates are only adjusted downward if the new rates are more than 2.00% lower than the existing rate for Employer-Pay members (and adjusted only by the amount in excess of 2.00%) and if the new rates (for each the employee and the employer) are more than 1.00% lower than the existing rate for Employee/Employer Members (and adjusted only by the amount in excess of 1.00%). Rates for each the employee and the employer are rounded to the nearest 0.25% of payroll.

Because this valuation calculates the actuarially determined contribution rates for a Plan year beginning July 1 of an odd-numbered year, no adjustment in the statutory contribution rate is required as a result of this valuation.

Employer-Pay	Regular Employees	Police/Fire Employees
Statutory Rate for Fiscal Years July 1, 2021 through June 30, 2023	29.75%	44.00%
Actuarially Determined Contribution Rate per June 30, 2021 Actuarial Valuation (After Phase-In) ¹	31.78%	48.09%

Employee/Employer-Pay	Regular Employees	Police/Fire Employees
Statutory Rate for Fiscal Years July 1, 2021 through June 30, 2023	31.00%	45.50%
Actuarially Determined Contribution Rate per June 30, 2021 Actuarial Valuation (After Phase-In) ¹	33.19%	49.60%

The actuarial calculations prepared for funding purposes were made in accordance with generally accepted actuarial principles and practices. The information supplied in this letter is

¹ On October 21, 2021, the Board adopted a four-year phase-in of the cost impact of the assumption changes being made pursuant to the Experience Study dated September 10, 2021. One fourth of the cost impact attributable to the assumption changes, measured as of June 30, 2021 separately for each cost group, will be recognized in each of the valuations as of June 30, 2021, 2022, 2023, and 2024.

Without the phase-in, the actuarially determined contribution rates per the June 30, 2021 actuarial valuation would have been 37.72% for Regular Employer-Pay, 59.40% for Police/Fire Employer-Pay, 39.10% for Regular Employee/Employer-Pay, and 60.67% for Police/Fire Employee/Employer-Pay.

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based on the current provisions of the Public Employees' Retirement Act and on the actuarial assumptions and methods adopted by the Public Employees' Retirement Board. Further, in our opinion, the assumptions as approved by the Board are reasonably related to the experience of and the expectations for the plan, and the assumptions and methods used for funding purposes meet the parameters set by the applicable Actuarial Standards of Practice.

We are members of the American Academy of Actuaries and we meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein.

Sincerely,

Segal



Brad Ramirez, FSA, MAAA, EA
Vice President & Consulting Actuary



Mark Hamwee, FSA, MAAA, EA
Vice President & Actuary



Todd Tauzer, FSA, CERA, FCA, MAAA
Vice President & Actuary

MAM/mv
Enclosures

Summary of Actuarial Assumptions and Methods

The actuarial assumptions and methods used in the June 30, 2021 actuarial valuation were adopted by the Public Employees' Retirement Board and were based on the results of the experience review issued September 10, 2021.

The assumptions have been set in accordance with Actuarial Standard of Practice (ASOP) No. 35, "Selection of Demographic and Other Non-economic Assumptions for Measuring Pension Obligations" and ASOP No. 27 "Selection of Economic Assumptions for Measuring Pension Obligations." These Standards of Practice put forth guidelines for the selection of the various actuarial assumptions utilized in a pension plan actuarial valuation.

Economic Assumptions

Investment Return:	7.25% per year ¹
Administrative Expenses:	0.20% of payroll added to Normal Cost

¹ Includes inflation at 2.50% per year.

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Salary Increases:

Inflation: 2.50% plus

Productivity pay increases: 0.50% plus

Merit and promotion salary increases:

Years of Service	Rate (%)	
	Regular	Police/Fire
0 – 1	6.10	11.50
1 – 2	5.00	8.20
2 – 3	4.40	5.80
3 – 4	4.00	5.20
4 – 5	3.70	4.90
5 – 6	3.40	4.70
6 – 7	3.30	4.40
7 – 8	3.20	4.20
8 – 9	3.00	4.00
9 – 10	2.80	3.90
10 – 11	2.60	3.50
11 – 12	2.30	2.80
12 – 13	2.10	2.20
13 – 14	1.90	2.00
14 – 15	1.80	1.90
15 – 16	1.70	1.70
16 – 17	1.60	1.70
17 – 18	1.50	1.70
18 – 19	1.40	1.70
19 – 20	1.30	1.70
20 & Over	1.20	1.60

Future salary increases are assumed to occur at the beginning of the year.

Rate Payroll:

The payroll for the coming year is based on actual annualized payroll for the actives as of the valuation date and projected by the salary scale. However, for members with less than one year of service as of the valuation date, no salary increase assumption is applied to their annualized compensation.

Payroll Growth (Funding):

3.50% per year for Regular employees

3.50% per year for Police/Fire employees

Post-Retirement Benefit Increases: For current retirees and beneficiaries, future Post-Retirement Benefit Increases reflect actual changes in historical CPI and are assumed to follow the formulas described below. For future retirees, those hired prior to January 1, 2010 are assumed to reach the cap after 14 years of retirement. Those hired between January 1, 2010 and July 1, 2015 are also assumed to reach the cap after 14 years of retirement. Those hired after July 1, 2015 are assumed to never receive an annual increase that exceeds 2.50%. Underlying all of these assumptions is that CPI will grow over time at a rate of 2.50% per year.

For members with an effective date of membership before January 1, 2010:

The lesser of:

- a. 2% per year following the third anniversary of the commencement of benefits, 3% per year following the sixth anniversary, 3 ½% per year following the ninth anniversary, 4% per year following the twelfth anniversary and 5% per year following the fourteenth anniversary, or
- b. The annual benefit increase is equal to the average percentage increase in the Consumer Price Index (or other Board approved index) for the three preceding years.

In any event, a member's benefit must be increased by the percentages in paragraph (a) if the benefit of a member has not been increased at a rate greater than or equal to the average of the Consumer Price Index (All Items) (or other Board approved index) for the period between retirement and the date of increase.

For members with an effective date of membership on or after January 1, 2010 and before July 1, 2015:

Same as above, except the increases do not exceed 4% per year.

For members with an effective date of membership on or after July 1, 2015:

2% per year following the third anniversary of the commencement of benefits, 2 ½% per year following the sixth anniversary, the lesser of 3% or the CPI for the preceding calendar year following the ninth anniversary.

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Non-Economic Assumptions

Retirement Rates:

The assumed retirement rates, which project the percentage of eligible employees who will retire, are shown below:

Regular members with an effective date of membership before January 1, 2010:

Age	Retirement Rates (%)					
	Years of Service					
	5 – 9	10 – 19	20 – 24	25 – 27	28 – 29	30 & Over
45	0.00	0.10	0.10	0.50	20.00	20.00
46	0.00	0.20	0.20	1.00	20.00	20.00
47	0.00	0.30	0.30	1.50	20.00	20.00
48	0.00	0.40	0.40	2.00	20.00	20.00
49	0.00	0.50	0.50	2.00	20.00	20.00
50	0.20	0.60	0.70	2.00	20.00	20.00
51	0.30	0.70	1.00	2.00	20.00	20.00
52	0.40	0.80	1.20	3.00	20.00	20.00
53	0.50	1.00	1.50	3.00	20.00	20.00
54	0.60	1.20	2.00	3.00	20.00	20.00
55	0.80	1.50	3.00	3.00	20.00	20.00
56	1.00	2.00	3.50	4.00	20.00	20.00
57	1.50	2.50	4.00	7.00	20.00	20.00
58	2.00	3.00	5.00	7.00	20.00	20.00
59	2.50	4.00	7.00	11.00	20.00	20.00
60	5.00	11.00	18.00	25.00	21.00	21.00
61	6.00	10.00	15.00	20.00	21.00	21.00
62	7.00	11.00	16.00	20.00	20.00	20.00
63	8.00	11.00	16.00	20.00	20.00	20.00
64	9.00	11.00	16.00	20.00	20.00	20.00
65	18.00	19.00	22.00	22.00	25.00	25.00
66	18.00	19.00	22.00	22.00	25.00	25.00
67	18.00	19.00	22.00	22.00	25.00	25.00
68	18.00	19.00	22.00	22.00	25.00	25.00
69	18.00	19.00	22.00	22.00	25.00	25.00
70	20.00	20.00	25.00	30.00	30.00	30.00
71	20.00	20.00	25.00	30.00	30.00	30.00
72	20.00	20.00	25.00	30.00	30.00	30.00
73	20.00	20.00	25.00	30.00	30.00	30.00
74	20.00	20.00	25.00	30.00	30.00	30.00
75 & Over	100.00	100.00	100.00	100.00	100.00	100.00

Retirement Rates (continued):

Regular members with an effective date of membership on or after July 1, 2015:

Age	Retirement Rates (%)					
	Years of Service					
	5 – 9	10 – 19	20 – 24	25 – 29	30 – 33.3	33.3 & Over
45	0.00	0.00	0.00	0.00	7.20	20.00
46	0.00	0.00	0.00	0.00	8.30	20.00
47	0.00	0.00	0.00	0.00	9.40	20.00
48	0.00	0.00	0.00	0.00	10.40	20.00
49	0.00	0.00	0.00	0.00	11.50	20.00
50	0.00	0.00	0.00	0.00	12.60	20.00
51	0.00	0.00	0.00	0.00	13.70	20.00
52	0.00	0.40	0.60	1.50	14.80	20.00
53	0.00	0.50	0.80	1.60	15.80	20.00
54	0.00	0.70	1.20	1.70	16.90	20.00
55	0.20	0.90	1.80	1.80	18.00	20.00
56	0.40	1.30	2.30	2.60	18.00	20.00
57	0.50	1.70	2.70	4.70	18.00	20.00
58	0.70	2.10	3.50	4.90	18.00	20.00
59	0.90	2.90	5.00	7.90	18.00	20.00
60	1.80	3.60	5.40	9.00	18.90	21.00
61	3.20	5.40	9.00	13.50	18.90	21.00
62	3.60	9.30	13.50	16.80	18.00	20.00
63	4.50	9.30	13.50	16.80	18.00	20.00
64	6.30	9.30	13.50	16.80	18.00	20.00
65	15.30	16.00	18.50	18.50	22.50	25.00
66	15.30	16.00	18.50	18.50	22.50	25.00
67	15.30	16.00	18.50	18.50	22.50	25.00
68	15.30	16.00	18.50	18.50	22.50	25.00
69	15.30	16.00	18.50	18.50	22.50	25.00
70	17.10	16.80	21.10	25.30	27.00	30.00
71	17.10	16.80	21.10	25.30	27.00	30.00
72	17.10	16.80	21.10	25.30	27.00	30.00
73	17.10	16.80	21.10	25.30	27.00	30.00
74	17.10	16.80	21.10	25.30	27.00	30.00
75 & Over	100.00	100.00	100.00	100.00	100.00	100.00

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Retirement Rates (continued):

Regular members with an effective date of membership on or after January 1, 2010 and before July 1, 2015:

Age	Retirement Rates (%)					
	Years of Service					
	5 – 9	10 – 19	20 – 24	25 – 27	28 – 29	30 & Over
45	0.00	0.00	0.00	0.00	20.00	20.00
46	0.00	0.00	0.00	0.00	20.00	20.00
47	0.00	0.00	0.00	0.00	20.00	20.00
48	0.00	0.00	0.00	0.00	20.00	20.00
49	0.00	0.00	0.00	0.00	20.00	20.00
50	0.00	0.00	0.00	0.00	20.00	20.00
51	0.00	0.00	0.00	0.00	20.00	20.00
52	0.00	0.40	0.70	1.70	20.00	20.00
53	0.00	0.60	0.90	1.80	20.00	20.00
54	0.00	0.80	1.30	1.90	20.00	20.00
55	0.20	1.00	2.00	2.00	20.00	20.00
56	0.40	1.40	2.50	2.90	20.00	20.00
57	0.60	1.90	3.00	5.20	20.00	20.00
58	0.80	2.30	3.90	5.40	20.00	20.00
59	1.00	3.20	5.60	8.80	20.00	20.00
60	2.00	4.00	6.00	10.00	21.00	21.00
61	3.50	6.00	10.00	15.00	21.00	21.00
62	4.00	10.30	15.00	18.70	20.00	20.00
63	5.00	10.30	15.00	18.70	20.00	20.00
64	7.00	10.30	15.00	18.70	20.00	20.00
65	17.00	17.80	20.60	20.60	25.00	25.00
66	17.00	17.80	20.60	20.60	25.00	25.00
67	17.00	17.80	20.60	20.60	25.00	25.00
68	17.00	17.80	20.60	20.60	25.00	25.00
69	17.00	17.80	20.60	20.60	25.00	25.00
70	19.00	18.70	23.40	28.10	30.00	30.00
71	19.00	18.70	23.40	28.10	30.00	30.00
72	19.00	18.70	23.40	28.10	30.00	30.00
73	19.00	18.70	23.40	28.10	30.00	30.00
74	19.00	18.70	23.40	28.10	30.00	30.00
75 & Over	100.00	100.00	100.00	100.00	100.00	100.00

Retirement Rates (continued):

Police/Fire members with an effective date of membership before January 1, 2010:

Age	Retirement Rates (%)					
	Years of Service					
	5 – 9	10 – 19	20 – 22	23 – 24	25 – 29	30 & Over
40	0.00	0.10	0.00	0.00	0.00	0.00
41	0.00	0.20	0.00	20.00	20.00	0.00
42	0.00	0.30	1.00	20.00	20.00	0.00
43	0.00	0.40	2.00	20.00	20.00	0.00
44	0.00	0.50	3.00	20.00	20.00	0.00
45	0.00	0.70	3.50	20.00	20.00	20.00
46	0.00	0.90	4.00	20.00	20.00	20.00
47	0.00	1.10	4.50	20.00	20.00	20.00
48	0.00	1.30	5.00	20.00	20.00	20.00
49	0.00	1.50	6.50	20.00	20.00	20.00
50	1.50	4.50	16.00	23.00	23.00	23.00
51	1.50	4.50	13.00	23.00	23.00	23.00
52	1.50	5.00	13.00	23.00	23.00	23.00
53	1.50	6.00	13.00	23.00	23.00	23.00
54	1.50	7.00	13.00	23.00	23.00	23.00
55	4.50	11.00	18.00	25.00	25.00	25.00
56	4.50	11.00	18.00	25.00	25.00	25.00
57	4.50	11.00	18.00	25.00	25.00	25.00
58	4.50	11.00	18.00	25.00	25.00	25.00
59	4.50	11.00	18.00	25.00	25.00	25.00
60	5.00	18.00	26.00	35.00	35.00	35.00
61	6.00	18.00	26.00	35.00	35.00	35.00
62	7.00	18.00	26.00	35.00	35.00	35.00
63	8.00	18.00	26.00	35.00	35.00	35.00
64	9.00	18.00	26.00	35.00	35.00	35.00
65	20.00	25.00	40.00	50.00	50.00	50.00
66	20.00	25.00	40.00	50.00	50.00	50.00
67	20.00	25.00	40.00	50.00	50.00	50.00
68	20.00	25.00	40.00	50.00	50.00	50.00
69	20.00	25.00	40.00	50.00	50.00	50.00
70 & Over	100.00	100.00	100.00	100.00	100.00	100.00

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Retirement Rates (continued):

Police/Fire members with an effective date of membership on or after January 1, 2010 and before July 1, 2015:

Age	Retirement Rates (%)					
	Years of Service					
	5 – 9	10 – 19	20 – 24	25 – 27	28 – 29	30 & Over
40	0.00	0.00	0.00	0.00	0.00	0.00
41	0.00	0.00	0.00	0.00	0.00	0.00
42	0.00	0.00	0.70	0.00	0.00	0.00
43	0.00	0.00	1.50	10.90	20.00	0.00
44	0.00	0.00	2.40	12.00	20.00	0.00
45	0.00	0.00	2.90	13.10	20.00	20.00
46	0.00	0.00	3.40	14.20	20.00	20.00
47	0.00	0.00	3.90	15.40	20.00	20.00
48	0.00	0.00	4.50	16.50	20.00	20.00
49	0.00	0.00	6.00	17.60	20.00	20.00
50	0.00	2.10	15.00	21.50	23.00	23.00
51	0.00	2.30	12.20	21.50	23.00	23.00
52	0.00	2.80	12.20	21.50	23.00	23.00
53	0.00	3.50	12.20	21.50	23.00	23.00
54	0.00	4.40	12.20	21.50	23.00	23.00
55	2.80	7.20	16.90	23.40	25.00	25.00
56	3.00	7.80	16.90	23.40	25.00	25.00
57	3.20	8.40	16.90	23.40	25.00	25.00
58	3.40	9.10	16.90	23.40	25.00	25.00
59	3.50	9.70	16.90	23.40	25.00	25.00
60	4.10	16.90	24.30	32.80	35.00	35.00
61	5.10	16.90	24.30	32.80	35.00	35.00
62	6.10	16.90	24.30	32.80	35.00	35.00
63	7.20	16.90	24.30	32.80	35.00	35.00
64	8.30	16.90	24.30	32.80	35.00	35.00
65	18.70	23.40	37.50	46.80	50.00	50.00
66	18.70	23.40	37.50	46.80	50.00	50.00
67	18.70	23.40	37.50	46.80	50.00	50.00
68	18.70	23.40	37.50	46.80	50.00	50.00
69	18.70	23.40	37.50	46.80	50.00	50.00
70 & Over	100.00	100.00	100.00	100.00	100.00	100.00

Retirement Rates (continued):

Police/Fire members with an effective date of membership on or after July 1, 2015:

Age	Retirement Rates (%)				
	Years of Service				
	5 – 9	10 – 19	20 – 24	25 – 29	30 & Over
40	0.00	0.00	0.00	0.00	0.00
41	0.00	0.00	0.00	0.00	0.00
42	0.00	0.00	0.70	0.00	0.00
43	0.00	0.00	1.50	10.90	0.00
44	0.00	0.00	2.40	12.00	0.00
45	0.00	0.00	2.90	13.10	20.00
46	0.00	0.00	3.40	14.20	20.00
47	0.00	0.00	3.90	15.40	20.00
48	0.00	0.00	4.50	16.50	20.00
49	0.00	0.00	6.00	17.60	20.00
50	0.00	2.10	15.00	21.50	23.00
51	0.00	2.30	12.20	21.50	23.00
52	0.00	2.80	12.20	21.50	23.00
53	0.00	3.50	12.20	21.50	23.00
54	0.00	4.40	12.20	21.50	23.00
55	2.80	7.20	16.90	23.40	25.00
56	3.00	7.80	16.90	23.40	25.00
57	3.20	8.40	16.90	23.40	25.00
58	3.40	9.10	16.90	23.40	25.00
59	3.50	9.70	16.90	23.40	25.00
60	4.10	16.90	24.30	32.80	35.00
61	5.10	16.90	24.30	32.80	35.00
62	6.10	16.90	24.30	32.80	35.00
63	7.20	16.90	24.30	32.80	35.00
64	8.30	16.90	24.30	32.80	35.00
65	18.70	23.40	37.50	46.80	50.00
66	18.70	23.40	37.50	46.80	50.00
67	18.70	23.40	37.50	46.80	50.00
68	18.70	23.40	37.50	46.80	50.00
69	18.70	23.40	37.50	46.80	50.00
70 & Over	100.00	100.00	100.00	100.00	100.00

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Retirement Rates (continued):

The following categories of active members are assumed to receive an unreduced benefit when they retire:

Group (Active Members)	Years of Service
Regular members with an effective date of membership before January 1, 2010	28 – 29 years of service
Regular members with an effective date of membership on or after January 1, 2010 and before July 1, 2015	28 – 29 years of service
Police/Fire members with an effective date of membership before January 1, 2010	23 – 24 years of service
Police/Fire members with an effective date of membership on or after January 1, 2010 and before July 1, 2015	28 – 29 years of service

Retirement Age for Inactive Vested Members:

Inactive vested members are generally assumed to retire at the earliest unreduced retirement age.

The following categories of inactive vested members are assumed to retire immediately with an unreduced benefit:

Group (Inactive Vested Members)	Years of Service
Regular members with an effective date of membership before January 1, 2010	28 – 29 years of service
Regular members with an effective date of membership on or after January 1, 2010 and before July 1, 2015	28 – 29 years of service
Police/Fire members with an effective date of membership before January 1, 2010	23 – 24 years of service
Police/Fire members with an effective date of membership on or after January 1, 2010 and before July 1, 2015	28 – 29 years of service

Termination Rates:

The assumed termination rates are shown below.

Years of Service	Termination Rates (%)	
	Regular	Police/Fire
0 – 1	15.75	14.50
1 – 2	12.75	8.25
2 – 3	10.25	6.50
3 – 4	8.25	5.50
4 – 5	7.50	4.50
5 – 6	6.50	4.25
6 – 7	5.75	3.25
7 – 8	5.25	2.50
8 – 9	4.75	2.50
9 – 10	4.50	1.90
10 – 11	4.25	1.40
11 – 12	3.25	1.25
12 – 13	3.00	1.00
13 – 14	2.75	0.90
14 – 15	2.25	0.80
15 – 16	2.25	0.70
16 – 17	2.25	0.60
17 – 18	2.00	0.50
18 – 19	1.75	0.40
19 – 20	1.75	0.30
20 – 21	1.75	0.30
21 – 22	1.75	0.30
22 – 23	1.75	0.30
23 – 24	1.75	0.30
24 – 25	1.50	0.30
25 & Over	1.50	0.30

No termination is assumed after a member reaches earliest unreduced retirement age.

The termination liability is based on the greater actuarial value of a refund of member contributions and a deferred vested retirement benefit.

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Disability Rates:

The assumed disability rates are shown below for selected ages:

Age	Disability Rates (%)	
	Regular	Police/Fire
22	0.01	0.00
27	0.03	0.06
32	0.04	0.16
37	0.10	0.32
42	0.20	0.50
47	0.30	0.80
52	0.55	0.70
57	0.70	0.50
62	0.30	0.30
65 & Over	0.00	0.00

Disability rates are applied only for members with more than 5 years of service and less than 30 years of service for Regular members with an effective date of membership before July 1, 2015, less than 33 1/3 years of service for Regular members with an effective date of membership on or after July 1, 2015, less than 25 years of service for Police/Fire members with an effective date of membership before January 1, 2010, or less than 30 years of service for Police/Fire members with an effective date of membership on or after January 1, 2010.

Mortality Tables:*Pre-Retirement:*

Regular Members: Pub-2010 General Employee Amount-Weighted Above-Median Mortality Table (separate tables for males and females), projected generationally with the two-dimensional mortality improvement scale MP-2020.

Police/Fire Members: Pub-2010 Safety Employee Amount-Weighted Above-Median Mortality Table (separate tables for males and females), projected generationally with the two-dimensional mortality improvement scale MP-2020.

Healthy:

Regular Members: Pub-2010 General Healthy Retiree Amount-Weighted Above-Median Mortality Table (separate tables for males and females) with rates increased by 30% for males and 15% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

The above listed mortality tables only provide rates for ages 50 and older. To develop mortality rates for ages 40 through 50, we have smoothed the difference between the rates at age 40 from the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables and the rates at age 50 from the Pub-2010 General Healthy Retiree Amount-Weighted Above-Median Mortality Tables. To develop the mortality rates before age 40, we have used the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables rates. This methodology for developing an extended annuitant mortality table is similar to the method used by the IRS to develop the base mortality table for determining minimum funding standards for single-employer defined benefit pension plans under Internal Revenue Code Section 430. While Section 430 is not applicable to NVPERS, we believe this is a reasonable method for developing annuitant mortality rates at earlier ages.

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Mortality Tables (continued):

Healthy (continued): **Police/Fire Members:** Pub-2010 Safety Healthy Retiree Amount-Weighted Above-Median Mortality Table (separate tables for males and females) with rates increased by 30% for males and 5% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

The above listed mortality tables only provide rates for ages 45 and older. To develop mortality rates for ages 35 through 45, we have smoothed the difference between the rates at age 35 from the Pub-2010 Safety Employee Amount-Weighted Above-Median Mortality Tables and the rates at age 45 from the Pub-2010 Safety Healthy Retiree Amount-Weighted Above-Median Mortality Tables. To develop the mortality rates before age 35, we have used the Pub-2010 Safety Employee Amount-Weighted Above-Median Mortality Tables rates. This methodology for developing an extended annuitant mortality table is similar to the method used by the IRS to develop the base mortality table for determining minimum funding standards for single-employer defined benefit pension plans under Internal Revenue Code Section 430. While Section 430 is not applicable to NVPERS, we believe this is a reasonable method for developing annuitant mortality rates at earlier ages.

Disabled: **Regular Members:** Pub-2010 Non-Safety Disabled Retiree Amount-Weighted Mortality Table (separate tables for males and females) with rates increased by 20% for males and 15% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

Police/Fire Members: Pub-2010 Safety Disabled Retiree Amount-Weighted Mortality Table (separate tables for males and females) with rates increased by 30% for males and 10% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

Mortality Tables (continued):*Beneficiaries:***Regular and Police/Fire Current Beneficiaries in Pay Status:**

Pub-2010 Contingent Survivor Amount-Weighted Above-Median Mortality Table (separate tables for males and females) with rates increased by 15% for males and 30% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

The above listed mortality table only provides rates for ages 45 and older. To develop mortality rates for ages 35 through 45, we have smoothed the difference between the rates at age 35 from the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables and the rates at age 45 from the Pub-2010 Contingent Survivor Amount-Weighted Above-Median Mortality Tables. To develop the mortality rates before age 35, we have used the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables rates. This methodology for developing an extended annuitant mortality table is similar to the method used by the IRS to develop the base mortality table for determining minimum funding standards for single-employer defined benefit pension plans under Internal Revenue Code Section 430. While Section 430 is not applicable to NVPERS, we believe this is a reasonable method for developing annuitant mortality rates at earlier ages.

Regular and Police/Fire Contingent Beneficiaries: Pub-2010 General Healthy Retiree Amount-Weighted Above-Median Mortality Table (separate tables for males and females) with rates increased by 30% for males and 15% for females, projected generationally with the two-dimensional mortality improvement scale MP-2020.

The above listed mortality tables only provide rates for ages 50 and older. To develop mortality rates for ages 40 through 50, we have smoothed the difference between the rates at age 40 from the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables and the rates at age 50 from the Pub-2010 General Healthy Retiree Amount-Weighted Above-Median Mortality Tables. To develop the mortality rates before age 40, we have used the Pub-2010 General Employee Amount-Weighted Above-Median Mortality Tables rates. This methodology for developing an extended annuitant mortality table is similar to the method used by the IRS to develop the base mortality table for determining minimum funding standards for single-employer defined benefit pension plans under Internal Revenue Code Section 430. While Section 430 is not applicable to NVPERS, we believe this is a reasonable method for developing annuitant mortality rates at earlier ages.

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Mortality Tables (continued):

For the mortality table applicable to contingent beneficiaries, “Approach 1” from the Society of Actuaries “Pub-2010 Public Retirement Plans Mortality Tables Report” (as noted on page 61 of that report) was utilized. In particular, the mortality basis for contingent beneficiaries has been assumed to be the same mortality basis as the Healthy Regular retiree table listed above (except using rates applicable to the beneficiary’s gender) for both when the primary retiree is alive and is no longer alive.

The tables below show the assumed healthy retiree mortality rates¹ and projected life expectancies² for selected ages:

Regular Members				
Age	Mortality Rates		Expected Years of Life Remaining	
	Males	Females	Males	Females
40	0.07%	0.04%	43.4	47.1
50	0.35%	0.24%	33.2	36.7
60	0.72%	0.43%	23.7	26.9
70	1.80%	1.19%	15.2	17.8
80	5.71%	3.75%	8.1	10.0

Police/Fire Members				
Age	Mortality Rates		Expected Years of Life Remaining	
	Males	Females	Males	Females
40	0.07%	0.05%	44.2	47.3
50	0.21%	0.15%	33.9	36.9
60	0.57%	0.44%	24.0	26.9
70	1.76%	1.31%	15.3	17.9
80	5.65%	3.92%	8.2	10.2

The Pub-2010 Amount-Weighted Mortality Tables (with loading factors as described above) reasonably reflect the projected mortality experience of the Plan as of the measurement date. The generational projection is a provision made for future mortality improvement.

¹ Generational projections beyond the base year (2010) are not reflected in the above mortality rates.

² Expected years of life remaining are based on age as of calendar year 2021. In practice, assumed life expectancies will increase as a result of the mortality improvement scale.

Future Benefit Accruals:

1.0 year of service per year.

Presence and Age of Beneficiary:

It is assumed for purposes of the actuarial valuation that beneficiaries of female members are two years older than the female member. Beneficiaries of male members are assumed to be two years younger than the male member. Spouses are assumed to be of the opposite sex of the member.

Since pre-retirement death benefits are payable to a surviving beneficiary of an unmarried member, all members are assumed to have a beneficiary upon pre-retirement death.

The unmodified option is a straight life annuity except for “employer-pay” Police/Fire retirees, for whom it is a 50% joint and survivor annuity. Existing “employer-pay” Police/Fire retirees with an unmodified option who retired after June 30, 1981 and before July 1, 2011 have been valued assuming no surviving spouse, pending the results of an analysis and verification of spousal information.

75% of “employer-pay” Police/Fire male members and 65% of “employer-pay” Police/Fire female members are assumed to be married at retirement.

Dependent Children:

The assumption for dependent children in the actuarial valuation is one dependent child who is 28 years younger than the employee.

Unknown Data for Members:

Same as those exhibited by members with similar known characteristics. If not specified, Regular members are assumed to be female, and Police/Fire members are assumed to be male.

Form of Payment:

All active and inactive members are assumed to elect the unmodified option at retirement (Option 1).

Actuarial Value of Assets:

Market value of assets less unrecognized returns in each of the last five years. Unrecognized return is equal to the difference between the actual market return and the expected return on the actuarial value, and is recognized over a five-year period. The actuarial value of assets is further limited to not less than 70% or greater than 130% of the market value of assets.

Actuarial Cost Method:

Entry Age Normal Actuarial Cost Method. Entry Age is the age at the time the participant commenced employment. Normal Cost and Actuarial Accrued Liability are calculated on an

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individual basis and are based on costs allocated as a level percentage of salary, with Normal Cost determined based on the plan provisions and benefit accrual rate applicable to that individual.

Amortization Policy:

For funding purposes, the UAAL, (i.e., the difference between the Actuarial Accrued Liability and the Valuation Value of Assets), as of June 30, 2011 shall continue to be amortized over separate 30-year period amortization layers based on the valuations during which each separate layer was previously established.

Any new UAAL as a result of actuarial gains or losses identified in the annual valuation as of June 30 was amortized over a period equal to the truncated average remaining amortization period of all prior UAAL layers. This occurred until the average remaining amortization period was less than 20 years. At that point, amortization periods of 20 years are used for actuarial gains and losses.

Any new UAAL as a result of change in actuarial assumptions or methods was amortized over a period equal to the truncated average remaining amortization period of all prior UAAL layers. This occurred until the average remaining amortization period was less than 20 years. At that point, amortization periods of 20 years are used for assumption or method changes.

Unless an alternative amortization period is recommended by the Actuary and accepted by the Board based on the results of an actuarial analysis:

- with the exception noted below, the increase in UAAL as a result of any plan amendments will be amortized over a period of 15 years;
- the increase in UAAL that would result from a temporary retirement incentive will be pre-funded by the participating employer(s).

UAAL layers shall be amortized over “closed” amortization periods so that the amortization period for each layer decreases by one year with each actuarial valuation.

UAAL layers shall be amortized as a level percentage of payroll so that the amortization amount in each year during the amortization period shall be expected to be a level percentage of covered payroll, taking into consideration the current assumption for general payroll increase.

If an overfunding exists (i.e., the total of all UAAL becomes negative so that there is a surplus), such surplus and any subsequent surpluses will be amortized over an “open” amortization period of 30 years. Any prior UAAL amortization layers will be considered fully amortized, and any subsequent UAAL will be amortized over 20 years as the first of a new series of amortization layers.

These amortization policy components will apply separately to each of the Regular and Police/Fire UAAL cost groups.

Phase-In:

On October 21, 2021, the Board adopted a four-year phase-in of the cost impact of the assumption changes being made pursuant to the Experience Study dated September 10, 2021. One fourth of the cost impact attributable to the assumption changes, measured as of June 30, 2021 separately for each cost group, will be recognized in each of the valuations as of June 30, 2021, 2022, 2023, and 2024.

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Changes in Actuarial Assumptions and Methods Since the Previous Year:

Based on the June 30, 2020 Actuarial Experience Study, the following assumptions were changed. Previously, these assumptions were as follows:

Economic Assumptions

Investment Return: 7.50% per year¹

Administrative Expenses: 0.15% of payroll added to Normal Cost

Salary Increases:

Inflation: 2.75% plus

Productivity pay increases: 0.50% plus

Merit and promotion salary increases:

Years of Service	Rate (%)	
	Regular	Police/Fire
Less than 1	5.90	10.65
1	4.80	7.15
2	4.00	5.20
3	3.60	4.60
4	3.30	4.30
5	3.00	4.15
6	2.80	3.90
7	2.70	3.50
8	2.50	3.15
9	2.35	2.90
10	2.15	2.50
11	1.75	1.90
12	1.50	1.50
13	1.25	1.30
14	1.10	1.30
15 & Over	1.00	1.30

Future salary increases are assumed to occur at the beginning of the year.

Payroll Growth (Funding): 5.50% per year for Regular employees
6.50% per year for Police/Fire employees

Post-Retirement Benefit Increases: For future retirees, those hired prior to 2010 are assumed to reach the cap after 16 years of retirement. Those hired in between 2010 and 2015 are also assumed to reach the cap after 16 years of retirement. Those hired after 2015 are assumed to never receive an annual increase that exceeds 2.75%. Underlying all of these assumptions is that CPI will grow over time at a rate of 2.75% per year.

¹ Includes inflation at 2.75% per year.

Changes in Actuarial Assumptions and Methods Since the Previous Year (continued):

Non-Economic Assumptions

Retirement Rates:

Regular members with an effective date of membership before July 1, 2015:

Age	Years of Service (%)					
	5 – 9	10 – 19	20 – 24	25 – 29	30 – 32	33 or More
45-49	0.00	0.00	0.75	6.50	16.00	16.00
50-54	0.50	1.50	1.50	8.50	18.00	18.00
55-59	1.50	3.50	5.00	12.00	20.00	20.00
60-61	6.50	11.00	17.00	22.00	22.00	22.00
62-64	9.00	13.00	17.00	22.00	22.00	22.00
65-69	20.00	20.00	22.00	25.00	25.00	25.00
70-74	30.00	30.00	40.00	40.00	40.00	40.00
75 & Over	100.00	100.00	100.00	100.00	100.00	100.00

Regular members with an effective date of membership on or after July 1, 2015:

Age	Years of Service (%)					
	5 – 9	10 – 19	20 – 24	25 – 29	30 – 32	33 or More
45-49	0.00	0.00	0.75	6.50	6.50	16.00
50-54	0.50	1.50	1.50	8.50	8.50	18.00
55-59	1.50	3.50	5.00	12.00	20.00	20.00
60-61	6.50	11.00	17.00	22.00	22.00	22.00
62-64	9.00	13.00	17.00	22.00	22.00	22.00
65-69	20.00	20.00	22.00	25.00	25.00	25.00
70-74	30.00	30.00	40.00	40.00	40.00	40.00
75 & Over	100.00	100.00	100.00	100.00	100.00	100.00

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Changes in Actuarial Assumptions and Methods Since the Previous Year (continued):

Police/Fire members:

Age	Years of Service (%)				
	5 – 9	10 – 19	20 – 24	25 – 29	30 or More
Less than 40	0.00	0.00	0.00	0.00	0.00
40-44	0.00	0.50	3.50	0.00	0.00
45-49	0.00	1.00	6.50	18.00	18.00
50-54	1.50	4.50	13.00	20.00	24.00
55-59	3.50	10.00	20.00	25.00	28.00
60-64	9.00	18.00	25.00	35.00	35.00
65-69	50.00	50.00	60.00	60.00	60.00
70 & Over	100.00	100.00	100.00	100.00	100.00

The retirement age for inactive vested members is equal to their earliest unreduced retirement age.

Changes in Actuarial Assumptions and Methods Since the Previous Year (continued):

Termination Rates:

Years of Service	Termination Rates (%)	
	Regular	Police/Fire
0 – 1	16.00	15.00
1 – 2	12.50	8.00
2 – 3	10.25	7.50
3 – 4	8.00	6.00
4 – 5	7.50	5.00
5 – 6	6.00	3.75
6 – 7	5.25	3.50
7 – 8	4.25	2.50
8 – 9	4.00	2.25
9 – 10	3.75	1.90
10 – 11	3.25	1.50
11 – 12	3.00	1.30
12 – 13	2.75	1.00
13 – 14	2.50	0.90
14 – 15	2.25	0.80
15 – 16	2.00	0.70
16 – 17	2.00	0.60
17 – 18	1.75	0.50
18 – 19	1.75	0.50
19 – 20	1.75	0.50
20 & Over	1.75	0.45

No termination is assumed after a member reaches earliest unreduced retirement age.

The termination liability is based on the greater actuarial value of a refund of member contributions and a deferred vested retirement benefit.

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Changes in Actuarial Assumptions and Methods Since the Previous Year (continued):

Disability Rates:

Age	Disability Rates (%)	
	Regular	Police/Fire
22	0.01	0.00
27	0.03	0.06
32	0.06	0.12
37	0.10	0.30
42	0.21	0.45
47	0.35	0.65
52	0.60	0.80
57	0.75	0.65
62	0.35	0.50

No disability rates are assumed after age 65.

Disability rates are applied only for members with more than 5 years of service and less than 30 years of service for Regular members with an effective date of membership before July 1, 2015, less than 33 1/3 years of service for Regular members with an effective date of membership on or after July 1, 2015, or 25 years for Police/Fire members.

Changes in Actuarial Assumptions and Methods Since the Previous Year (continued):

Mortality Tables:

Pre-Retirement: Headcount-Weighted RP-2014 Employee Table, projected to 2020 with Scale MP-2016.

Healthy: Headcount-Weighted RP-2014 Healthy Annuitant Table projected to 2020 with Scale MP-2016, set forward one year for spouses and beneficiaries.

For ages less than 50¹, mortality rates are based on the Headcount-Weighted RP-2014 Employee Mortality Tables. Those mortality rates are adjusted by the ratio of the mortality rate for members at age 50 to the mortality rate at age 50 from the Employee mortality tables listed above. The mortality rates are then projected to 2020 with Scale MP-2016.

Disabled: Headcount-Weighted RP-2014 Disabled Retiree Table, set forward four years.

¹ The RP-2014 Healthy Annuitant Mortality Tables have rates only for ages 50 and later.

The tables below show the assumed healthy retiree mortality rates and projected life expectancies for selected ages:

Regular and Police/Fire Members				
Age	Mortality Rates		Expected Years of Life Remaining	
	Males	Females	Males	Females
40	0.20%	0.14%	40.4	43.6
50	0.49%	0.38%	31.4	34.5
60	0.90%	0.59%	23.2	25.9
70	1.81%	1.26%	15.6	17.7
80	4.55%	3.42%	9.1	10.5

Presence and Age of Beneficiary:

It is assumed for purposes of the actuarial valuation that beneficiaries of female members are two years older than the female member. Beneficiaries of male members are assumed to be three years younger than the male member. Spouses are assumed to be of the opposite sex of the member.

70% of “employer-pay” Police/Fire male members and 55% of “employer-pay” Police/Fire female members are assumed to be married at retirement.

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Required Supplementary Information
Schedules of Funding Progress
2012 to 2021
(dollars in millions)

Actuarial Valuation Date June 30	Actuarial Value of Assets (AVA)	Accrued Liability (AAL)	Unfunded Actuarial Accrued Liability (UAAL)	Ratio of AVA to AAL	Annual Covered Payroll	UAAL as a % of Annual Covered Payroll
2012	\$27,399.0	\$38,604.9	\$11,205.9	71.0%	\$5,087.8	220.3%
2013	29,108.5	41,984.5	12,875.9	69.3	5,100.2	252.5
2014	31,465.6	43,997.1	12,531.5	71.5	5,113.5	245.1
2015	33,717.9	46,070.1	12,352.2	73.2	5,227.2	236.3
2016	35,896.2	48,459.2	12,562.9	74.1	5,346.3	235.0
2017	38,719.3	51,986.1	13,266.8	74.5	5,542.2	239.4
2018	41,342.4	55,069.4	13,727.1	75.1	5,830.4	235.4
2019	43,609.0	57,920.2	14,311.2	75.3	6,038.6	237.0
2020	46,171.7	60,663.5	14,491.8	76.1	6,276.8	230.9
2021	50,942.5	67,577.8	16,635.3	75.4	6,186.4	268.9

Actuarial Valuation Date June 30	Unfunded Actuarial Accrued Liability (millions)		Unfunded Actuarial Accrued Liability as % of Payroll		Actuarial Value of Assets as % of Total Actuarial Accrued Liability	
	Regular	Police/Fire	Regular	Police/Fire	Regular	Police/Fire
2012	\$8,729.4	\$2,476.5	206.2%	289.5%	71.2%	70.1%
2013	10,331.9	2,544.0	243.7	295.7	68.9	71.1
2014	10,160.0	2,371.5	238.3	278.9	70.8	74.3
2015	10,041.1	2,311.1	230.3	266.3	72.4	76.3
2016	10,197.9	2,365.0	228.7	266.3	73.2	77.1
2017	10,590.9	2,675.9	229.4	289.3	73.9	76.4
2018	10,876.0	2,851.0	224.5	288.9	74.7	76.5
2019	11,275.0	3,036.2	225.7	291.3	74.9	76.5
2020	11,429.8	3,061.9	219.5	286.3	75.7	77.5
2021	12,861.5	3,773.9	251.3	353.4	75.3	75.6

Schedule 1
 Retirement System Membership
 2012 to 2021

June 30	Active Members	Inactive Members	Retired and Disabled Members	Beneficiaries and Survivors	Total Membership
2012	98,512	12,962	44,012	5,534	161,020
2013	99,038	13,739	46,653	5,777	165,207
2014	100,522	14,633	49,170	6,038	170,363
2015	103,108	15,032	51,853	6,306	176,299
2016	105,167	15,639	54,615	6,565	181,986
2017	105,801	16,668	57,199	6,931	186,599
2018	107,506	16,607	59,819	7,289	191,221
2019	109,167	17,341	62,466	7,590	196,564
2020	111,815	17,398	64,867	7,874	201,954
2021	106,930	18,871	67,755	8,200	201,756

Schedule 2
 Active Member Valuation Data
 2012 to 2021

June 30	Number of Active Members		Annual Salary (millions)		Annual Average Salary		Percent Increase Average Salary	
	Regular	Police/Fire	Regular	Police/Fire	Regular	Police/Fire	Regular	Police/Fire
2012	86,719	11,793	\$4,232.5	\$855.3	\$48,808	\$72,523	(0.9)%	(1.9)%
2013	87,193	11,845	4,239.8	860.4	48,626	72,637	(0.4)	0.2
2014	88,709	11,813	4,263.1	850.4	48,057	71,990	(1.2)	(0.9)
2015	91,124	11,984	4,359.4	867.8	47,840	72,417	(0.5)	0.6
2016	93,030	12,137	4,458.2	888.2	47,922	73,179	0.2	1.1
2017	93,276	12,525	4,617.4	924.9	49,502	73,841	3.3	0.9
2018	94,615	12,891	4,843.6	986.8	51,193	76,549	3.4	3.7
2019	96,072	13,095	4,996.4	1,042.2	52,007	79,586	1.6	4.0
2020	98,228	13,587	5,207.3	1,069.5	53,013	78,712	1.9	(1.1)
2021	93,796	13,134	5,118.6	1,067.8	54,572	81,303	2.9	3.3

Schedule 3

Pay Status Participants Added to and Removed from the Rolls
2012 to 2021

RETIREES AND BENEFICIARIES

June 30	<u>Added to Rolls</u>			<u>Removed from Rolls</u>		<u>Rolls at End of Year</u>		% Increase in Annual Allowances	Average Annual Allowances	% Increase in Average Allowances
	Beginning Balance	Number	Annual Allowances	Number	Annual Allowances	Number	Annual Allowances			
2012	41,981	3,687	\$121,192,385	(932)	\$(24,956,200)	44,736	\$1,507,827,860	9.3%	\$33,705	2.6%
2013	44,736	3,665	115,060,841	(1,050)	(27,984,633)	47,351	1,632,417,296	8.3	34,475	2.3
2014	47,351	3,732	119,871,171	(1,142)	(34,060,824)	49,941	1,757,076,989	7.6	35,183	2.1
2015	49,941	4,110	143,218,449	(1,250)	(37,461,678)	52,801	1,901,374,760	8.2	36,010	2.4
2016	52,801	4,454	158,933,124	(1,328)	(41,066,707)	55,927	2,050,852,866	7.9	36,670	1.8
2017	55,927	4,431	162,467,577	(1,530)	(47,186,158)	58,828	2,196,500,865	7.1	37,338	1.8
2018	58,828	4,444	167,984,313	(1,574)	(50,855,765)	61,698	2,354,772,962	7.2	38,166	2.2
2019	61,698	4,569	180,857,725	(1,624)	(53,717,527)	64,643	2,537,563,136	7.8	39,255	2.9
2020	64,643	4,488	191,510,349	(1,861)	(62,734,737)	67,270	2,723,693,217	7.3	40,489	3.1
2021	67,270	5,147	224,664,317	(2,002)	(66,723,754)	70,415	2,934,272,120	7.7	41,671	2.9

DISABILITY RECIPIENTS

June 30	<u>Added to Rolls</u>			<u>Removed from Rolls</u>		<u>Rolls at End of Year</u>		% Increase in Annual Allowances	Average Annual Allowances	% Increase in Average Allowances
	Beginning Balance	Number	Annual Allowances	Number	Annual Allowances	Number	Annual Allowances			
2012	2,668	279	\$7,576,925	(122)	\$(2,462,375)	2,825	\$67,473,905	10.6%	\$23,885	4.5%
2013	2,825	323	8,863,323	(117)	(2,950,968)	3,031	74,890,587	11.0	24,708	3.4
2014	3,031	286	8,346,444	(133)	(3,001,371)	3,184	81,828,716	9.3	25,700	4.0
2015	3,184	279	7,843,123	(238)	(6,031,122)	3,225	85,166,914	4.1	26,408	2.8
2016	3,225	224	6,630,290	(375)	(9,669,332)	3,074	83,459,531	(2.0)	27,150	2.8
2017	3,074	238	7,401,370	(242)	(6,949,748)	3,070	85,154,508	2.0	27,738	2.2
2018	3,070	196	6,637,162	(167)	(4,986,863)	3,099	88,402,398	3.8	28,526	2.8
2019	3,099	208	6,969,925	(257)	(7,072,644)	3,050	90,215,475	2.1	29,579	3.7
2020	3,050	152	5,924,594	(137)	(4,030,829)	3,065	93,959,228	4.1	30,656	3.6
2021	3,065	133	5,391,986	(156)	(4,686,758)	3,042	96,409,377	2.6	31,693	3.4

SURVIVOR ANNUITANTS

June 30	<u>Added to Rolls</u>			<u>Removed from Rolls</u>		<u>Rolls at End of Year</u>		% Increase in Annual Allowances	Average Annual Allowances	% Increase in Average Allowances
	Beginning Balance	Number	Annual Allowances	Number	Annual Allowances	Number	Annual Allowances			
2012	1,929	140	\$1,764,977	(84)	\$(826,587)	1,985	\$29,436,963	5.7%	\$14,830	2.7%
2013	1,985	132	1,877,979	(69)	(706,398)	2,048	31,357,319	6.5	15,311	3.2
2014	2,048	139	1,699,773	(104)	(935,578)	2,083	32,868,928	4.8	15,780	3.1
2015	2,083	144	2,339,825	(94)	(1,085,422)	2,133	34,817,928	5.9	16,323	3.4
2016	2,133	161	2,474,940	(115)	(1,338,740)	2,179	36,659,755	5.3	16,824	3.1
2017	2,179	138	2,365,400	(85)	(961,809)	2,232	38,583,162	5.2	17,286	2.7
2018	2,232	160	2,733,806	(81)	(1,057,591)	2,311	40,927,907	6.1	17,710	2.5
2019	2,311	154	2,125,227	(102)	(1,240,847)	2,363	42,750,703	4.5	18,092	2.2
2020	2,363	125	2,281,249	(82)	(945,472)	2,406	45,002,512	5.3	18,704	3.4
2021	2,406	199	3,246,840	(107)	(1,514,608)	2,498	47,599,020	5.8	19,055	1.9

Schedule 4

Schedule of Funded Liabilities by Type (in millions)
2012 to 2021

Actuarial Accrued Liabilities

June 30	Active Member Contributions (1)	Inactive and Pay Status Members ¹ (2)	Active Members Employer Financed Portion (3)	Actuarial Value of Assets	Portion of Actuarial Accrued Liabilities Covered by Assets		
					(1)	(2)	(3)
2012	\$708.5	\$20,519.7	\$17,376.7	\$27,399.0	100%	100%	35.5%
2013	743.2	23,132.1	18,109.2	29,108.5	100	100	28.9
2014	775.4	24,781.5	18,440.1	31,465.6	100	100	32.0
2015	822.7	26,302.7	18,944.8	33,717.9	100	100	34.8
2016	872.8	28,068.7	19,517.7	35,896.2	100	100	35.6
2017	920.8	30,492.8	20,572.5	38,719.3	100	100	35.5
2018	996.5	32,736.8	21,336.1	41,342.4	100	100	35.7
2019	1,065.0	35,033.2	21,822.0	43,609.0	100	100	34.4
2020	1,152.8	37,004.7	22,506.0	46,171.7	100	100	35.6
2021	1,216.8	41,535.2	24,825.8	50,942.5	100	100	33.0

¹ Includes liability for post-retirement benefit increases.

Schedule 5

Analysis of Actuarial Experience

Gains and Losses in Actuarial Accrued Liabilities (UAAL) During Year Ended June 30, 2021 Resulting from Unfunded Differences Between Assumed Experience and Actual Experience (dollar amounts in millions)

Type of Activity	Regular		Police/Fire	
	Amount	As % of AAL	Amount	As % of AAL
Age and Service Retirements. If members retire at older ages or with lower final average pay than assumed, there is a gain. If retirements occur at younger ages with higher average pay, there is a loss.	\$(263.9)	(0.52%)	\$(96.0)	(0.67%)
Disability Retirements. If disability claims are less than assumed, there is a gain. If there are more claims, there is a loss.	(1.2)	0.00%	(5.0)	(0.03%)
Pre- and Post-Retirement Mortality. If retirees live longer than assumed, there is a loss. If retirees live shorter than assumed, there is a gain.	51.4	0.10%	(17.3)	(0.12%)
Post-Retirement Benefit Increases. If increases are more than assumed, there is a loss. If increases are less than assumed, there is a gain.	(612.9)	(1.23%)	(184.2)	(1.26%)
Withdrawal From Employment. If more liabilities are released by withdrawals than assumed, there is a gain. If less liabilities are released, there is a loss.	76.8	0.15%	(3.3)	(0.02%)
Pay and Service Increases. If there are smaller pay and service increases than assumed, there is a gain. If there are greater increases, there is a loss.	309.5	0.62%	52.0	0.36%
Active New Entrants. Cost due to new hires.	(48.2)	(0.10%)	(6.9)	(0.05%)
Active Rehires. Some new active members have past service credits reinstated, thereby increasing costs due to the unanticipated liabilities.	(32.9)	(0.07%)	(2.5)	(0.02%)
Inactive and Retiree Showups. Persons in inactive or pay status who are added to the valuation data during the year.	(14.8)	(0.03%)	(1.8)	(0.01%)
Other. Miscellaneous gains and losses result from data changes and adjustments, and other miscellaneous impacts on the valuation results. Includes actual purchase of service contributions.	40.2	0.08%	(0.4)	0.00%
Total Liability Experience Gain (Loss) During Year.	\$(496.0)	(1.00%)	\$(265.4)	(1.82%)
Investment Income. If there is a greater investment income than assumed, there is a gain. If there is less income, there is a loss.	1,715.9	3.45%	507.0	3.49%
Contributions. If contributions are greater than assumed, there is a gain. If contributions are lower, there is a loss.	(219.4)	(0.44%)	(59.2)	(0.41%)
Administrative Expenses. If administrative expenses are lower than assumed, there is a gain. If administrative expenses are higher, there is a loss.	(2.2)	(0.00%)	0.6	0.00%
Total Experience Gain (Loss) During the Year.	\$998.3	2.01%	\$183.0	1.26%



Schedule 6
 Schedule of Employer Contributions
 2012 to 2021

Fiscal Year Ended June 30	Regular		Police/Fire		Total	
	Annual Required Contribution ¹	Percentage Contributed	Annual Required Contribution ¹	Percentage Contributed	Annual Required Contribution ¹	Percentage Contributed
2012	\$1,028,518,922	96%	\$356,627,690	96%	\$1,385,146,612	96%
2013	1,140,004,053	86	377,692,041	88	1,517,696,095	86
2014	1,223,519,948	87	354,604,416	96	1,578,124,364	89
2015	1,243,009,888	87	357,365,587	98	1,600,375,475	90
2016	1,235,466,166	98	360,063,071	100	1,595,529,237	98
2017	684,350,580	103	194,707,470	102	879,058,050	103
2018	698,761,837	103	206,915,231	101	905,677,068	103
2019	714,413,481	105	217,139,466	100	931,552,947	104
2020	727,154,285	111	223,353,811	106	950,508,096	110
2021	693,499,344	117	219,128,782	110	912,628,125	115

¹ Reflects employer contributions only. Determined using 5% assumed payroll growth and 30-year frozen period for amortizing unfunded actuarial accrued liability.

Starting in the year ended June 30, 2017, pursuant to GASB Statement No. 82, the financial statements and annual required contributions recognize half of the employer contributions made on behalf of Employer-Pay members as member contributions.

Schedule 7
Schedule of Participating Employers
2012 to 2021

Fiscal Year Ended June 30	Number of Participating Employers ¹
2012	N/A
2013	N/A
2014	189
2015	195
2016	202
2017	204
2018	210
2019	212
2020	215
2021	214

¹ Before 2020, the number of participating employers is the number of employers that made contributions during each fiscal year, as listed in Appendix A of each year's GASB Statement No. 68 report, based on information provided by the System. The GASB Statement No. 68 report was first issued for the fiscal year ended June 30, 2014. The counts in this Schedule also include PERS, which is not considered to be a participating employer for purposes of GASB Statement No. 68, starting with the June 30, 2015 report.

Starting in the entry for 2020, the number of participating employers shown in this Schedule was provided by the System for the purpose of this Schedule. This count may differ slightly from the count in the GASB Statement No. 68 report, which is limited to employers that contributed during the fiscal year.

Distribution of Retired Members and Beneficiaries
By Type as of June 30, 2021

REGULAR

Monthly Benefit	Total	Service	Disability	Beneficiary	Survivor
Under \$1,000	12,966	9,858	490	1,309	1,309
1,000 – 1,999	14,066	11,714	681	1,356	315
2,000 – 2,999	10,656	9,020	530	862	244
3,000 – 3,999	8,180	7,203	339	475	163
4,000 – 4,999	6,999	6,340	236	317	106
5,000 – 5,999	6,338	5,996	78	208	56
6,000 – 6,999	3,063	2,922	40	83	18
7,000 – 7,999	1,688	1,623	14	45	6
8,000 – 8,999	970	934	11	23	2
9,000 – 9,999	482	467	3	10	2
10,000 & over	580	570	0	9	1
Total	65,988	56,647	2,422	4,697	2,222

POLICE/FIRE

Monthly Benefit	Total	Service	Disability	Beneficiary	Survivor
Under \$1,200	761	372	44	188	157
1,200 – 2,399	1,179	704	133	314	28
2,400 – 3,599	1,243	824	146	251	22
3,600 – 4,799	1,337	1,046	126	131	34
4,800 – 5,999	1,362	1,180	108	55	19
6,000 – 7,199	1,262	1,174	46	34	8
7,200 – 8,399	1,047	1,014	13	14	6
8,400 – 9,599	695	682	1	11	1
9,600 – 10,799	441	437	1	3	0
10,800 – 11,999	260	256	1	3	0
12,000 & over	380	377	1	1	1
Total	9,967	8,066	620	1,005	276

ACTUARIAL SECTION

New Retired Members for Year Ended June 30, 2021

	REGULAR						
	Years of Credited Service						
	0-4	5-9	10-14	15-19	20-24	25-29	30+
Average monthly benefit	\$304	\$702	\$1,652	\$2,651	\$3,811	\$4,949	\$5,809
Average salary	\$33,288	\$57,950	\$66,693	\$76,639	\$83,917	\$88,716	\$94,147
Number of new retirees	28	506	751	736	646	536	772

	POLICE/FIRE						
	Years of Credited Service						
	0-4	5-9	10-14	15-19	20-24	25-29	30+
Average monthly benefit	N/A	\$690	\$2,286	\$3,724	\$5,886	\$8,071	\$9,167
Average salary	N/A	\$66,600	\$99,590	\$107,646	\$124,171	\$140,612	\$146,713
Number of new retirees	0	19	47	85	267	271	48



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November 30, 2021

Public Employees' Retirement Board
State of Nevada
693 West Nye Lane
Carson City, Nevada 89703

Dear Retirement Board Members:

We are pleased to submit this Governmental Accounting Standards Board (GASB) Statement No. 67 Actuarial Valuation as of June 30, 2021. It contains various information that will need to be disclosed in order to comply with GASB Statement No. 67.

This report was prepared in accordance with applicable Actuarial Standards of Practice at the request of the Board to assist in administering the Plan. We are not accountants, but are familiar with the GASB requirements and believe that the calculations are consistent with those requirements. The census and financial information on which our calculations were based was prepared by the Retirement Office. That assistance is gratefully acknowledged.

The measurements shown in this actuarial valuation may not be applicable for other purposes. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law.

The actuarial cost method used in the calculation of the Total Pension Liability (Entry Age Method) is the same cost method used for funding purposes. All actuarial assumptions used for these calculations are the same as for funding purposes.

The assumed rate of return on assets for funding purposes is 7.25% per year, net of investment fees, and this is also the assumed rate used to discount the Total Pension Liability.

ACTUARIAL SECTION

Public Employees' Retirement Board
November 30, 2021
Page 2

The following supporting schedules are extracts from Segal's GASB Statement No. 67 Actuarial Valuation as of June 30, 2021:

- Schedule of Net Pension Liability
- Schedule of Sensitivity of the Net Pension Liability to Changes in the Discount Rate
- Schedule of Changes in Net Pension Liability
- Schedule of Contributions

Segal valuation results are based on proprietary actuarial modeling software. The actuarial valuation models generate a comprehensive set of liability and cost calculations that are presented to meet regulatory, legislative and client requirements. Our Actuarial Technology and Systems unit, comprised of both actuaries and programmers, is responsible for the initial development and maintenance of these models. The models have a modular structure that allows for a high degree of accuracy, flexibility and user control. The client team programs the assumptions and the plan provisions, validates the models, and reviews test lives and results, under the supervision of the responsible actuary.

The actuarial calculations were completed under the supervision of Mark Hamwee, FSA, MAAA, Enrolled Actuary. We are members of the American Academy of Actuaries and we meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. To the best of our knowledge, the information supplied in the actuarial valuation is complete and accurate. Further, in our opinion, the assumptions as approved by the Board are reasonably related to the experience of and expectations for the Plan.

Sincerely,

Segal



Brad Ramirez, FSA, MAAA, EA
Vice President & Consulting Actuary



Mark Hamwee, FSA, MAAA, EA
Vice President & Actuary



Todd Tauzer, FSA, CERA, FCA, MAAA
Vice President & Actuary

MAM/mv
Enclosures

Schedule of Net Pension Liability

The components of the Net Pension Liability are as follows:

Measurement Date	June 30, 2021	June 30, 2020
Total Pension Liability	\$67,577,781,457	\$60,663,454,082
Plan Fiduciary Net Position	\$58,458,484,355	\$46,735,117,356
Net Pension Liability	\$9,119,297,102	\$13,928,336,726
Plan Fiduciary Net Position as a percentage of the Total Pension Liability	86.51%	77.04%

The Net Pension Liability was measured as of June 30, 2021 and 2020 and determined based upon the Plan Fiduciary Net Position (plan assets) and Total Pension Liability from actuarial valuations as of June 30, 2021 and 2020, respectively.

Schedule of Sensitivity of the Net Pension Liability to Changes in the Discount Rate

The following presents the Net Pension Liability of the NVPERS as of June 30, 2021, calculated using the discount rate of 7.25%, as well as what the NVPERS Net Pension Liability would be if it were calculated using a discount rate that is 1 percentage point lower (6.25%) or 1 percentage point higher (8.25%) than the current rate:

	1% Decrease (6.25%)	Current Discount Rate (7.25%)	1% Increase (8.25%)
Net Pension Liability as of June 30, 2021	\$18,156,228,324	\$9,119,297,102	\$1,664,568,442

ACTUARIAL SECTION

Schedule of Changes in Net Pension Liability – Last Two Fiscal Years

Measurement Date	June 30, 2021	June 30, 2020
Total Pension Liability		
Service cost	\$1,249,255,823	\$1,207,335,098
Interest	4,529,330,837	4,328,271,099
Change of benefit terms	0	0
Differences between expected and actual experience ¹	833,986,416	42,171,410
Changes of assumptions	3,345,018,455	0
Benefit payments, including refunds of member contributions	(3,038,839,893)	(2,834,539,498)
Other changes	<u>(4,424,263)</u>	<u>0</u>
Net change in Total Pension Liability	\$6,914,327,375	\$2,743,238,109
Total Pension Liability – beginning	<u>60,663,454,082</u>	<u>57,920,215,973</u>
Total Pension Liability – ending (a)	\$67,577,781,457	\$60,663,454,082
Plan Fiduciary Net Position		
Contributions – employer (including those for administrative expenses) ²	\$1,051,938,035	\$1,045,108,804
Contributions – employee (including purchase of service) ²	1,121,896,061	1,112,147,713
Net investment income	12,602,090,284	3,137,476,177
Benefit payments, including refunds of member contributions	(3,038,839,893)	(2,834,539,498)
Administrative expense	(12,530,326)	(12,398,157)
Other changes	<u>(1,187,162)</u>	<u>3,069,734</u>
Net change in Plan Fiduciary Net Position	\$11,723,366,999	\$2,450,864,773
Plan Fiduciary Net Position – beginning	<u>\$46,735,117,356</u>	<u>\$44,284,252,583</u>
Plan Fiduciary Net Position – ending (b)	\$58,458,484,355	\$46,735,117,356
Net Pension Liability/(Asset) – ending (a) – (b)	\$9,119,297,102	\$13,928,336,726
Plan Fiduciary Net Position as a percentage of the Total Pension Liability	86.51%	77.04%
Covered payroll	\$6,874,802,300	\$7,059,506,770
Net Pension Liability/(Asset) as percentage of covered payroll	132.6%	197.3%

¹ Includes new liability resulting from purchase of service.

² Pursuant to GASB No. 82, contributions are classified as member contributions for the purposes of GASB No. 67 if they are made by an employer to satisfy what are actually deemed to be member contribution requirements.

Schedule of Contributions – Last Ten Fiscal Years

Year Ended June 30	Actuarially Determined Contributions	Contributions in Relation to the Actuarially Determined Contributions ¹	Contribution Deficiency (Excess)	Covered Payroll ²	Contributions as a Percentage of Covered Payroll
2012	\$1,425,790,188	\$1,332,320,660	\$93,469,528	\$5,817,634,985	22.90%
2013	1,369,998,167	1,310,082,859	59,915,308	5,574,616,761	23.50%
2014	1,508,752,536	1,405,006,553	103,745,983	5,715,259,174	24.58%
2015	1,499,751,865	1,436,652,815	63,099,050	5,753,148,095	24.97%
2016	888,592,224	849,748,895	38,843,329	5,921,618,314	14.35%
2017	912,688,843	901,744,209	10,944,634	6,081,072,010	14.83%
2018	939,671,590	930,269,428	9,402,162	6,237,158,079	14.91%
2019	981,782,636	965,518,968	16,263,668	6,508,871,854	14.83%
2020	1,078,182,621	1,045,108,804	33,073,817	6,786,900,381	15.40%
2021	1,121,254,344	1,051,938,035	69,316,309	7,059,506,770	14.90%

Notes:

All contributions shown reflect employer-paid contributions only. Member contributions are excluded. Starting in 2016, pursuant to GASB No. 82, contributions are classified as member contributions for the purposes of GASB No. 67 if they are made by an employer to satisfy what are actually deemed to be member contribution requirements.

Actuarially Determined Contributions above are based on actuarially determined contribution rates (employer portion only) from the rate-setting year applicable to year shown, applied to covered payroll for year shown.

¹ Includes employer contributions towards administrative expenses.

² Measurement as of beginning of year.

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STATISTICAL SECTION

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OVERVIEW

This section of the Public Employees’ Retirement System of Nevada’s Annual Comprehensive Financial Report presents detailed information as a context for understanding what the information in the financial statements, note disclosures, and required supplementary says about the System’s overall financial health.

FINANCIAL TRENDS

These schedules contain trend information to help the reader understand how the System’s financial performance has changed over time.

- Schedule 1 Changes in Net Position – *Last Ten Years*
- Schedule 2 Benefit and Refund Deductions from Net Position – *Last Ten Years*

REVENUES

This schedule contains information to help the reader understand the System’s funding over the last ten years.

- Schedule 3 Contribution Rates – *Last Ten Years*

OPERATIONS

These schedules contain information about the System’s operations.

- Schedule 4 Retired Members by Type of Benefit
- Schedule 5 New Retired Members Average Benefit Payments
- Schedule 6 Average Age at Retirement – *Last Ten Years*
- Schedule 7 Number of Active Members per Retiree – *Last Ten Years*
- Schedule 8 Schedules of Funding Progress – *Last Ten Years*
- Schedule 9 Participating Employers
- Schedule 10 Principal Participating Employers – *Current Year and Nine Years Ago*
- Schedule 11 Average Age and Service Statistics for Members – *Last Ten Years*
- Schedule 12 Average Salaries for Members – *Last Ten Years*

STATISTICAL SECTION
FINANCIAL TRENDS

SCHEDULE 1

CHANGES IN NET POSITION - LAST TEN FISCAL YEARS*

(in millions)

	<u>2012</u>	<u>2013</u>	<u>2014</u>
Additions			
Employer contributions	\$ 715.3	\$ 704.7	\$ 757.4
Plan member contributions	715.2	704.6	757.3
Repayment and purchase of service	38.0	46.5	42.8
Investment income (net of expenses)	766.1	3,193.9	5,031.4
Other income	<u>2.1</u>	<u>2.5</u>	<u>1.9</u>
Total additions to plan net position	<u>2,236.7</u>	<u>4,652.2</u>	<u>6,590.8</u>
Deductions			
Benefit payments	1,552.7	1,680.8	1,816.7
Refunds	27.8	26.1	23.1
Administrative and other expenses	10.0	9.6	9.6
Transfers of contributions	<u>1.7</u>	<u>0.9</u>	<u>1.0</u>
Total deductions from plan net position	<u>1,592.2</u>	<u>1,717.4</u>	<u>1,850.4</u>
Change in net position	<u>\$ 644.5</u>	<u>\$ 2,934.8</u>	<u>\$ 4,740.4</u>

*Information is from internal System records.

Both the employer and plan members contributions have been restated in this schedule for fiscal years 2012 through 2016 as a result of implementing GASB 82 (see below).

Statement No. 82, an amendment of GASB Statements No. 67, No. 68, and No. 73, this statement addresses classification of employer-paid contributions. This statement requires certain contribution payments made by the employer to be classified as plan member contributions.

Fiscal Year

<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
\$ 775.5	\$ 849.7	\$ 901.8	\$ 930.2	\$ 965.5	\$ 1,045.1	\$ 1,051.9
775.4	849.8	901.7	930.2	965.5	1,045.1	1,051.9
82.5	61.7	67.2	73.6	98.4	67.0	70.0
1,395.3	778.7	4,110.3	3,273.9	3,468.1	3,137.5	12,602.1
<u>2.8</u>	<u>2.0</u>	<u>2.1</u>	<u>2.3</u>	<u>2.8</u>	<u>3.1</u>	<u>3.3</u>
<u>3,031.5</u>	<u>2,541.9</u>	<u>5,983.1</u>	<u>5,210.2</u>	<u>5,500.3</u>	<u>5,297.8</u>	<u>14,779.2</u>
1,958.3	2,111.9	2,258.2	2,420.0	2,601.7	2,805.0	3,008.6
25.6	26.8	30.4	31.4	34.0	29.5	30.3
9.6	11.9	9.9	12.9	11.8	12.4	12.5
<u>2.4</u>	<u>-</u>	<u>0.4</u>	<u>0.5</u>	<u>0.2</u>	<u>-</u>	<u>4.4</u>
<u>1,995.9</u>	<u>2,150.6</u>	<u>2,298.9</u>	<u>2,464.8</u>	<u>2,647.7</u>	<u>2,846.9</u>	<u>3,055.8</u>
<u>\$ 1,035.6</u>	<u>\$ 391.3</u>	<u>\$ 3,684.2</u>	<u>\$ 2,745.4</u>	<u>\$ 2,852.6</u>	<u>\$ 2,450.9</u>	<u>\$ 11,723.4</u>

STATISTICAL SECTION

FINANCIAL TRENDS

SCHEDULE 2

BENEFIT AND REFUND DEDUCTIONS FROM NET POSITION*

(in millions)

	<u>2012</u>	<u>2013</u>	<u>2014</u>
Regular Members:			
Benefits			
Retirement and survivor	\$ 1,187.8	\$ 1,283.6	\$ 1,385.3
Disability	<u>63.6</u>	<u>69.4</u>	<u>75.5</u>
Total benefits	<u>\$ 1,251.4</u>	<u>\$ 1,353.0</u>	<u>\$ 1,460.8</u>
Refunds			
Refunds due to separation	\$ 19.1	\$ 18.2	\$ 17.0
Refunds due to death	-	0.5	0.4
Mandatory employer distributions	<u>0.3</u>	<u>0.3</u>	<u>0.1</u>
Total refunds	<u>\$ 19.4</u>	<u>\$ 19.0</u>	<u>\$ 17.5</u>
Police/Fire Members:			
Benefits			
Retirement and survivor	\$ 286.1	\$ 310.5	\$ 336.4
Disability	<u>15.2</u>	<u>17.3</u>	<u>19.5</u>
Total benefits	<u>\$ 301.3</u>	<u>\$ 327.8</u>	<u>\$ 355.9</u>
Refunds			
Refunds due to separation	\$ 8.4	\$ 7.0	\$ 5.5
Refunds due to death	-	0.1	0.1
Total refunds	<u>\$ 8.4</u>	<u>\$ 7.1</u>	<u>\$ 5.6</u>
Total Members:			
Benefits			
Retirement and survivor	\$ 1,473.9	\$ 1,594.1	\$ 1,721.7
Disability	<u>78.8</u>	<u>86.7</u>	<u>95.0</u>
Total benefits	<u>\$ 1,552.7</u>	<u>\$ 1,680.8</u>	<u>\$ 1,816.7</u>
Refunds			
Refunds due to separation	\$ 27.5	\$ 25.2	\$ 22.5
Refunds due to death	-	0.6	0.5
Mandatory employer distributions	<u>0.3</u>	<u>0.3</u>	<u>0.1</u>
Total refunds	<u>\$ 27.8</u>	<u>\$ 26.1</u>	<u>\$ 23.1</u>

*Information is from internal System records.

Fiscal Year

<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
\$ 1,491.2	\$ 1,609.6	\$ 1,720.0	\$ 1,843.3	\$ 1,981.0	\$ 2,137.2	\$ 2,287.6
<u>81.3</u>	<u>81.7</u>	<u>81.5</u>	<u>82.9</u>	<u>86.3</u>	<u>88.2</u>	<u>89.5</u>
<u>\$ 1,572.5</u>	<u>\$ 1,691.3</u>	<u>\$ 1,801.5</u>	<u>\$ 1,926.2</u>	<u>\$ 2,067.3</u>	<u>\$ 2,225.4</u>	<u>\$ 2,377.1</u>
\$ 18.1	\$ 20.4	\$ 21.9	\$ 22.3	\$ 25.0	\$ 21.2	\$ 19.6
0.8	1.3	1.7	1.1	1.2	1.6	2.1
0.1	0.3	0.9	1.0	0.8	0.7	1.7
<u>\$ 19.0</u>	<u>\$ 22.0</u>	<u>\$ 24.5</u>	<u>\$ 24.4</u>	<u>\$ 27.0</u>	<u>\$ 23.5</u>	<u>\$ 23.4</u>
\$ 364.2	\$ 398.1	\$ 432.9	\$ 469.0	\$ 508.5	\$ 551.9	\$ 601.7
<u>21.6</u>	<u>22.5</u>	<u>23.8</u>	<u>24.8</u>	<u>25.9</u>	<u>27.7</u>	<u>29.8</u>
<u>\$ 385.8</u>	<u>\$ 420.6</u>	<u>\$ 456.7</u>	<u>\$ 493.8</u>	<u>\$ 534.4</u>	<u>\$ 579.6</u>	<u>\$ 631.5</u>
\$ 6.6	\$ 4.8	\$ 5.7	\$ 6.6	\$ 6.6	\$ 5.7	\$ 6.8
-	-	0.2	0.4	0.4	0.3	0.1
<u>\$ 6.6</u>	<u>\$ 4.8</u>	<u>\$ 5.9</u>	<u>\$ 7.0</u>	<u>\$ 7.0</u>	<u>\$ 6.0</u>	<u>\$ 6.9</u>
\$ 1,855.4	\$ 2,007.7	\$ 2,152.9	\$ 2,312.3	\$ 2,489.5	\$ 2,689.1	\$ 2,889.3
<u>102.9</u>	<u>104.2</u>	<u>105.3</u>	<u>107.7</u>	<u>112.2</u>	<u>115.9</u>	<u>119.3</u>
<u>\$ 1,958.3</u>	<u>\$ 2,111.9</u>	<u>\$ 2,258.2</u>	<u>\$ 2,420.0</u>	<u>\$ 2,601.7</u>	<u>\$ 2,805.0</u>	<u>\$ 3,008.6</u>
\$ 24.7	\$ 25.2	\$ 27.6	\$ 28.9	\$ 31.6	\$ 26.9	\$ 26.4
0.8	1.3	1.9	1.5	1.6	1.9	2.2
0.1	0.3	0.9	1.0	0.8	0.7	1.7
<u>\$ 25.6</u>	<u>\$ 26.8</u>	<u>\$ 30.4</u>	<u>\$ 31.4</u>	<u>\$ 34.0</u>	<u>\$ 29.5</u>	<u>\$ 30.3</u>

STATISTICAL SECTION
REVENUES

SCHEDULE 3
CONTRIBUTION RATES

	Regular Employees		Police/Fire Employees	
	Employer-Pay Plan	Plan Member/ Employer Plan (matching rate)	Employer-Pay Plan	Plan Member/ Employer Plan (matching rate)
Fiscal year ended June 30,				
2012	23.75 %	12.25 %	39.75 %	20.25 %
2013	23.75	12.25	39.75	20.25
2014	25.75	13.25	40.50	20.75
2015	25.75	13.25	40.50	20.75
2016	28.00	14.50	40.50	20.75
2017	28.00	14.50	40.50	20.75
2018	28.00	14.50	40.50	20.75
2019	28.00	14.50	40.50	20.75
2020	29.25	15.25	42.50	22.00
2021	29.25	15.25	42.50	22.00

SCHEDULE 4

RETIRED MEMBERS BY TYPE OF BENEFIT*

As of June 30, 2021

(Page 1 of 2)

Regular Retired Members

Amount of Monthly Benefit	Number of Retired Members	Type of Retirement			
		Service	Disability	Beneficiary	Survivor
Under \$1,000	12,966	9,858	490	1,309	1,309
\$1,000 - \$1,999	14,066	11,714	681	1,356	315
\$2,000 - \$2,999	10,656	9,020	530	862	244
\$3,000 - \$3,999	8,180	7,203	339	475	163
\$4,000 - \$4,999	6,999	6,340	236	317	106
\$5,000 - \$5,999	6,338	5,996	78	208	56
\$6,000 - \$6,999	3,063	2,922	40	83	18
\$7,000 - \$7,999	1,688	1,623	14	45	6
\$8,000 - \$8,999	970	934	11	23	2
\$9,000 - \$9,999	482	467	3	10	2
\$10,000 & Over	580	570	0	9	1
Total	<u>65,988</u>	<u>56,647</u>	<u>2,422</u>	<u>4,697</u>	<u>2,222</u>

*Information provided by Segal, the System's actuary.

SCHEDULE 4

RETIRED MEMBERS BY TYPE OF BENEFIT*

As of June 30, 2021

(Page 2 of 2)

Police/Fire Retired Members

Amount of Monthly Benefit	Number of Retired Members	Type of Retirement			
		Service	Disability	Beneficiary	Survivor
Under \$1,000	761	372	44	188	157
\$1,000 - \$1,999	1,179	704	133	314	28
\$2,000 - \$2,999	1,243	824	146	251	22
\$3,000 - \$3,999	1,337	1,046	126	131	34
\$4,000 - \$4,999	1,362	1,180	108	55	19
\$5,000 - \$5,999	1,262	1,174	46	34	8
\$6,000 - \$6,999	1,047	1,014	13	14	6
\$7,000 - \$7,999	695	682	1	11	1
\$8,000 - \$8,999	441	437	1	3	0
\$9,000 - \$9,999	260	256	1	3	0
\$10,000 & Over	380	377	1	1	1
Total	9,967	8,066	620	1,005	276

The values in these tables represent the number of individuals receiving benefit payments.

Individuals receiving service retirement are members of the System that received a benefit payment during fiscal year 2021 which was not a disability retirement.

Members with five or more years of service who become totally unable to perform their job or any comparable job because of injury or mental or physical illness are eligible to apply for disability retirement. Once approved by the Board, members receive a monthly disability retirement payment.

When a member retires there are seven retirement options. Option 1 pays the full monthly benefit but provides no income protection for a beneficiary after death for Regular members. Beneficiary retirements are paid to beneficiaries of retired members who have passed away with a retirement of Option 1 (Police/Fire members only) and Options 2 through 7 for all members.

Survivor retirements are paid when a member dies prior to retirement.

For more information regarding the various retirement types, refer to the Plan Summary starting on page 161.

*Information provided by Segal, the System's actuary.

SCHEDULE 5

**NEW RETIRED MEMBERS AVERAGE BENEFIT PAYMENTS*
(Page 1 of 4)**

Regular

	Year of Credited Service						
	<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30+</u>
FY2012							
Average							
monthly benefit	\$ 316	\$ 708	\$ 1,492	\$ 2,253	\$ 3,133	\$ 4,207	\$ 5,334
Average salary	\$ 31,100	\$ 53,851	\$ 65,168	\$ 67,022	\$ 73,116	\$ 77,811	\$ 82,864
New retirees	67	638	686	546	540	283	466
FY2013							
Average							
monthly benefit	\$ 392	\$ 732	\$ 1,445	\$ 2,302	\$ 3,208	\$ 4,180	\$ 5,533
Average salary	\$ 40,715	\$ 55,919	\$ 62,673	\$ 67,832	\$ 73,088	\$ 76,158	\$ 84,003
New retirees	63	742	729	563	517	274	353
FY2014							
Average							
monthly benefit	\$ 307	\$ 698	\$ 1,433	\$ 2,351	\$ 3,227	\$ 4,266	\$ 5,361
Average salary	\$ 39,526	\$ 53,111	\$ 63,395	\$ 70,463	\$ 73,299	\$ 76,178	\$ 82,142
New retirees	57	698	673	583	510	331	402
FY2015							
Average							
monthly benefit	\$ 281	\$ 762	\$ 1,441	\$ 2,408	\$ 3,245	\$ 4,287	\$ 5,565
Average salary	\$ 13,318	\$ 52,524	\$ 63,031	\$ 70,500	\$ 73,071	\$ 77,750	\$ 87,364
New retirees	40	721	746	573	558	446	471
FY2016							
Average							
monthly benefit	\$ 363	\$ 745	\$ 1,412	\$ 2,412	\$ 3,332	\$ 4,412	\$ 5,357
Average salary	\$ 36,513	\$ 51,414	\$ 60,663	\$ 70,429	\$ 74,821	\$ 78,473	\$ 83,261
New retirees	24	664	784	684	600	459	531

*Information provided by Segal, the System's actuary.

STATISTICAL SECTION
OPERATIONS

SCHEDULE 5

NEW RETIRED MEMBERS AVERAGE BENEFIT PAYMENTS

(Page 2 of 4)

	Regular						
	Year of Credited Service						
	<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30+</u>
FY2017							
Average							
monthly benefit	\$ 298	\$ 720	\$ 1,458	\$ 2,367	\$ 3,383	\$ 4,528	\$ 5,386
Average salary	\$ 35,079	\$ 50,398	\$ 62,982	\$ 68,682	\$ 76,932	\$ 81,449	\$ 86,777
New retirees	28	611	806	598	539	518	530
FY2018							
Average							
monthly benefit	\$ 459	\$ 717	\$ 1,486	\$ 2,359	\$ 3,362	\$ 4,440	\$ 5,539
Average salary	\$ 55,724	\$ 52,566	\$ 62,312	\$ 68,582	\$ 77,136	\$ 80,355	\$ 90,757
New retirees	32	491	789	633	592	480	632
FY2019							
Average							
monthly benefit	\$ 333	\$ 687	\$ 1,507	\$ 2,484	\$ 3,534	\$ 4,653	\$ 5,592
Average salary	\$ 41,708	\$ 52,045	\$ 65,692	\$ 74,437	\$ 80,426	\$ 83,649	\$ 90,546
New retirees	28	532	816	613	614	484	665
FY2020							
Average							
monthly benefit	\$ 316	\$ 668	\$ 1,650	\$ 2,594	\$ 3,596	\$ 4,986	\$ 5,778
Average salary	\$ 39,391	\$ 60,616	\$ 68,569	\$ 76,906	\$ 81,666	\$ 90,663	\$ 95,633
New retirees	29	443	658	603	614	475	781
FY2021							
Average							
monthly benefit	\$ 304	\$ 702	\$ 1,652	\$ 2,651	\$ 3,811	\$ 4,949	\$ 5,809
Average salary	\$ 33,288	\$ 57,950	\$ 66,693	\$ 76,639	\$ 83,917	\$ 88,716	\$ 94,147
New retirees	28	506	751	736	646	536	772

SCHEDULE 5

NEW RETIRED MEMBERS AVERAGE BENEFIT PAYMENTS*
(Page 3 of 4)

	Police/Fire						
	Year of Credited Service						
	<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30+</u>
FY2012							
Average							
monthly benefit	N/A	\$ 894	\$ 1,776	\$ 3,357	\$ 4,783	\$ 6,809	\$ 8,451
Average salary	N/A	\$ 63,123	\$ 79,808	\$ 94,892	\$ 105,111	\$ 119,107	\$ 128,952
New retirees	0	27	67	61	128	122	35
FY2013							
Average							
monthly benefit	N/A	\$ 1,098	\$ 1,836	\$ 3,287	\$ 5,056	\$ 7,103	\$ 8,677
Average salary	N/A	\$ 67,352	\$ 85,941	\$ 92,347	\$ 105,667	\$ 124,569	\$ 123,411
New retirees	0	25	54	72	107	123	28
FY2014							
Average							
monthly benefit	N/A	\$ 791	\$ 1,807	\$ 3,379	\$ 5,012	\$ 6,710	\$ 8,741
Average salary	N/A	\$ 68,430	\$ 77,952	\$ 99,204	\$ 107,261	\$ 120,215	\$ 130,369
New retirees	0	14	48	55	94	113	36
FY2015							
Average							
monthly benefit	N/A	\$ 1,134	\$ 1,762	\$ 3,419	\$ 5,276	\$ 7,185	\$ 8,815
Average salary	N/A	\$ 68,715	\$ 78,453	\$ 93,265	\$ 112,151	\$ 125,093	\$ 128,100
New retirees	0	13	47	53	128	149	47
FY2016							
Average							
monthly benefit	N/A	\$ 797	\$ 1,864	\$ 3,414	\$ 5,230	\$ 7,117	\$ 8,275
Average salary	N/A	\$ 65,601	\$ 80,772	\$ 92,602	\$ 109,171	\$ 124,280	\$ 125,158
New retirees	0	21	68	59	136	195	42

*Information provided by Segal, the System's actuary.

SCHEDULE 5

NEW RETIRED MEMBERS AVERAGE BENEFIT PAYMENTS

(Page 4 of 4)

Police/Fire

Year of Credited Service

	<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30+</u>
FY2017							
Average							
monthly benefit	N/A	\$ 945	\$ 1,964	\$ 3,638	\$ 5,019	\$ 7,263	\$ 10,022
Average salary	N/A	\$ 76,891	\$ 84,940	\$ 103,184	\$ 110,221	\$ 126,582	\$ 144,234
New retirees	0	22	61	71	151	195	41
FY2018							
Average							
monthly benefit	N/A	\$ 758	\$ 1,942	\$ 3,595	\$ 5,388	\$ 7,724	\$ 8,350
Average salary	N/A	\$ 55,853	\$ 85,184	\$ 104,130	\$ 114,462	\$ 134,986	\$ 123,547
New retirees	0	11	58	71	163	169	25
FY2019							
Average							
monthly benefit	N/A	\$ 902	\$ 2,014	\$ 3,557	\$ 5,361	\$ 7,995	\$ 8,983
Average salary	N/A	\$ 70,786	\$ 92,979	\$ 99,708	\$ 114,553	\$ 140,658	\$ 136,272
New retirees	0	14	52	61	145	225	31
FY2020							
Average							
monthly benefit	N/A	\$ 565	\$ 2,319	\$ 3,745	\$ 5,848	\$ 8,023	\$ 9,232
Average salary	N/A	\$ 58,778	\$ 107,609	\$ 106,504	\$ 125,761	\$ 141,307	\$ 148,255
New retirees	0	13	40	65	162	208	30
FY2021							
Average							
monthly benefit	N/A	\$ 690	\$ 2,286	\$ 3,724	\$ 5,886	\$ 8,071	\$ 9,167
Average salary	N/A	\$ 66,600	\$ 99,590	\$ 107,646	\$ 124,171	\$ 140,612	\$ 146,713
New retirees	0	19	47	85	267	271	48

SCHEDULE 6

AVERAGE AGE AT RETIREMENT*

<u>June 30</u>	<u>Regular</u>	<u>Police/Fire</u>
2012	64	59
2013	65	59
2014	66	59
2015	66	60
2016	67	60
2017	67	60
2018	67	60
2019	68	61
2020	68	61
2021	69	61

*Information is from internal System records.

SCHEDULE 7

NUMBER OF ACTIVE MEMBERS PER RETIREE*

<u>June 30</u>	<u>Number of Active Members</u>		<u>Number of Retired Members**</u>		<u>Active Members per Retiree</u>	
	<u>Regular</u>	<u>Police/ Fire</u>	<u>Regular</u>	<u>Police/ Fire</u>	<u>Regular</u>	<u>Police/ Fire</u>
2012	86,719	11,793	38,528	5,484	2.3	2.2
2013	87,193	11,845	40,854	5,799	2.1	2.0
2014	88,709	11,813	43,136	6,034	2.1	2.0
2015	91,124	11,984	45,508	6,345	2.0	1.9
2016	93,030	12,137	47,899	6,716	1.9	1.8
2017	93,276	12,525	50,091	7,108	1.9	1.8
2018	94,615	12,891	52,377	7,442	1.8	1.7
2019	96,072	13,095	54,678	7,788	1.8	1.7
2020	98,228	13,587	56,733	8,134	1.7	1.7
2021	93,796	13,134	59,069	8,686	1.6	1.5

*Information provided by Segal, the System's actuary.

**Excludes survivors and beneficiaries

STATISTICAL SECTION
OPERATIONS

SCHEDULE 8

SCHEDULES OF FUNDING PROGRESS*
2012 to 2021
(in millions)

Actuarial Valuation Date June 30	Actuarial Value of Assets (AVA)	Actuarial Accrued Liability (AAL)	Unfunded Actuarial Accrued Liability (UAAL)	Ratio of AVA to AAL	Annual Covered Payroll	UAAL as a % of Annual Covered Payroll
2012	\$27,399.0	\$38,604.9	\$11,205.9	71.0%	\$5,087.8	220.3%
2013	29,108.5	41,984.5	12,875.9	69.3	5,100.2	252.5`
2014	31,465.6	43,997.1	12,531.5	71.5	5,113.5	245.1
2015	33,717.9	46,070.2	12,352.2	73.2	5,227.2	236.3
2016	35,896.2	48,459.2	12,562.9	74.1	5,346.3	235.0
2017	38,719.3	51,986.1	13,266.8	74.5	5,542.2	239.4
2018	41,342.4	55,069.4	13,727.1	75.1	5,830.4	235.4
2019	43,609.0	57,920.2	14,311.2	75.3	6,038.6	237.0
2020	46,171.7	60,663.5	14,491.8	76.1	6,276.8	230.9
2021	50,942.5	67,577.8	16,635.3	75.4	6,186.4	268.9

Actuarial Valuation Date June 30	Unfunded Actuarial Accrued Liability (in millions)		Unfunded Actuarial Accrued Liability as % of Payroll		Actuarial Value of Assets as % of Total Actuarial Accrued Liability	
	Regular	Police/ Fire	Regular	Police/ Fire	Regular	Police/ Fire
2012	\$8,729.4	\$2,476.5	206.2%	289.5%	71.2%	70.1%
2013	10,331.9	2,544.0	243.7	295.7	68.9	71.1
2014	10,160.0	2,371.5	238.3	278.9	70.8	74.3
2015	10,041.1	2,311.1	230.3	266.3	72.4	76.3
2016	10,197.9	2,365.0	228.7	266.3	73.2	77.1
2017	10,590.9	2,675.9	229.4	289.3	73.9	76.4
2018	10,876.0	2,851.0	224.5	288.9	74.7	76.5
2019	11,275.0	3,036.2	225.7	291.3	74.9	76.5
2020	11,429.8	3,061.9	219.5	286.3	75.7	77.5
2021	12,861.5	3,773.9	251.3	353.4	75.3	75.6

*Information provided by Segal, the System's actuary.

SCHEDULE 9
PARTICIPATING EMPLOYERS
(Page 1 of 3)

State of Nevada and Related Agencies

Board of Examiners for Alcohol & Drug Abuse Counselors
Legislative Counsel Bureau
Liquefied Petroleum Gas Board
Nevada Rural Housing Authority
Public Employees' Retirement System
State Board of Accountancy
State Board of Architecture
State Board of Chiropractic Examiners
State Board of Cosmetology
State Board of Dental Examiners
State Board of Dispensing Opticians
State Board of Examiners for Marriage & Family Therapists and Clinical Professional Counselors
State Board of Examiners for Social Workers
State Board of Massage Therapy
State Board of Medical Examiners
State Board of Nursing
State Board of Optometry
State Board of Osteopathic Medicine
State Board of Pharmacy
State Board of Physical Therapy Examiners
State Board of Psychological Examiners
State Board of Veterinary Medical Examiners
State Personnel

Nevada System of Higher Education

Schools

100 Academy of Excellence
Academy for Career Education
Alpine Academy Charter School
American Leadership Academy – North Las Vegas
American Preparatory Academy of Nevada
Bailey Charter Elementary School
Beacon Academy of Nevada
Carson City School District
Carson Montessori School
Churchill County School District
Clark County School District
Coral Academy Las Vegas
Coral Academy of Science
Delta Academy
Democracy Prep at the Agassi Campus
Discovery Charter School

Doral Academy of Nevada
Doral Academy of Northern Nevada
Douglas County School District
Elko County School District
Elko Institute for Academic Achievement
En Compass Academy
Equipo Academy
Esmeralda County School District
Eureka County School District
Explore Academy of Las Vegas
Explore Knowledge Charter School
Founders Academy of Las Vegas
Futuro Academy Inc.
Girls Athletic Leadership School
High Desert Montessori Charter School
Honors Academy of Literature
Humboldt County School District
Imagine School at Mountain View
Innovations Charter School
Lander County School District
Leadership Academy of Nevada
Learning Bridge Charter School
Legacy Traditional Schools - Nevada
Lincoln County School District
Lyon County School District
Mariposa Academy of Language and Learning
Mater Academy of Nevada
Mater Academy of Northern Nevada
Mineral County School District
Nevada Connections Academy
Nevada Preparatory Charter
Nevada Rise Academy
Nevada State High School
Nevada State High School at Meadow Wood
Nevada State High School at Sunrise
Nevada Virtual Academy
Nye County School District
Oasis Academy
Odyssey Charter School
Pershing County School District
Pinecrest Academy of Nevada
Pinecrest Academy of Northern Nevada
Quest Academy
Rainbow Dreams Academy
Sierra Nevada Academy Charter School
Signature Preparatory Academy

SCHEDULE 9
PARTICIPATING EMPLOYERS
(Page 2 of 3)

Schools (continued)

Silver Sands Montessori Charter School
SLAM Academy of Nevada
Somerset Academy of Las Vegas
Storey County School District
Washoe County School District
White Pine County School District

Counties

Churchill County
Clark County
Douglas County
Elko County
Esmeralda County
Eureka County
Humboldt County
Lander County
Lincoln County
Lyon County
Mineral County
Nye County
Pershing County
Storey County
Washoe County
White Pine County

Cities

City of Boulder
City of Caliente
City of Carlin
City of Carson
City of Elko
City of Ely
City of Fallon
City of Fernley
City of Henderson
City of Las Vegas
City of Lovelock
City of Mesquite
City of North Las Vegas
City of Reno
City of Sparks
City of Wells
City of West Wendover
City of Winnemucca
City of Yerington

Hospitals

Battle Mountain General Hospital
Grover C. Dils Medical Center
Humboldt General Hospital
Mount Grant General Hospital
Pershing General Hospital
Silver Springs Stagecoach Hospital District
University Medical Center of Southern Nevada
William Bee Ririe Hospital

Utility, Irrigation, and Sanitation Districts

Alamo Sewer & Water General Improvement Dist.
Beatty Water and Sanitation District
CC Communications
Clark County Water Reclamation District
Douglas County Sewer and Water District
Lander County Sewer and Water
Lincoln County Power District
Lovelock Meadows Water District
McGill-Ruth Consolidated Sewer and Water District
Minden-Gardnerville Sanitation District
Moapa Valley Water District
Overton Power District
Pershing County Water Conservation District
Truckee Meadows Water Authority
Truckee-Carson Irrigation District
Virgin Valley Water District
Walker River Irrigation District
Washoe County Water District

Special Districts and Agencies

Austin Volunteer Fire Department
Battle Mountain Volunteer Fire Department
Canyon General Improvement District
Carson City Airport Authority
Central Dispatch Administrative Authority
Central Lyon County Fire Protection District
Churchill County Volunteer Fire Department
Churchill Mosquito Abatement District
City of Wells Volunteer Fire Department
Douglas County Mosquito District
East Fork Fire Protection District
East Fork Swimming Pool District
Elko Convention and Visitors Authority

SCHEDULE 9
PARTICIPATING EMPLOYERS
(Page 3 of 3)

Special Districts and Agencies (continued)

Elko County Agricultural Association
Elko Volunteer Fire Department**
Fernley Swimming Pool District
Gardnerville Ranchos General Improvement District
Gerlach General Improvement District
Grass Valley Volunteer Fire Department
Henderson District Public Libraries
Incline Village Visitor's/Convention Bureau
Indian Hills General Improvement District
Kingsbury General Improvement District
Lander County Convention & Tourism
Las Vegas Convention/Visitors Authority
Las Vegas/Clark County Library District
Las Vegas Metropolitan Police Department
Lovelock Volunteer Fire Department
Mason Valley Fire District
Mineral County Housing Authority
Moapa Valley Fire Department
Mt. Charleston Fire Protection District
Nevada Association of Counties
Nevada Tahoe Conservation District
North Lake Tahoe Fire Protection District
North Lyon County Fire District
Palomino Valley General Improvement District
Pershing County Volunteer Fire Department
Regional Transportation Commission
Reno Housing Authority
Reno/Sparks Convention and Visitors Authority
Reno-Tahoe Airport Authority
Round Hill General Improvement District
RTC of Southern Nevada
Rye Patch Volunteer Fire Department
Southern Nevada Health District
Southern Nevada Housing Authority
Stagecoach General Improvement District
Storey County Fire Protection District
Sun Valley General Improvement District
Tahoe-Douglas District
Tahoe-Douglas Fire Protection District
Tahoe-Reno General Improvement District
Town of Kingston
Town of Kingston Fire Company
Truckee Meadows Fire Protection District
Truckee Meadows Regional Planning Agency

White Pine County 474 Fire Protection District
White Pine County Tourism and Recreation Board
Winnemucca Rural Volunteer Fire
Winnemucca Volunteer Fire Department
Workforce Connections

*Contributions received in current fiscal year, no longer active.

**No contributions received in current fiscal year, still active.

STATISTICAL SECTION
OPERATIONS

SCHEDULE 10
PRINCIPAL PARTICIPATING EMPLOYERS

<u>Participating Agencies</u>	2012		
	<u>Covered Employees</u>	<u>Rank</u>	<u>Percentage of Total System</u>
Clark County School District	30,788	1	31.2%
State of Nevada	16,430	2	16.7
Washoe County School District	7,147	3	7.3
Clark County	6,977	4	7.1
Las Vegas Metropolitan Police Department	4,895	5	5.0
University Medical Center of Southern Nevada	3,336	6	3.4
City of Las Vegas	2,409	7	2.4
Washoe County	2,329	8	2.3
City of Henderson	2,032	9	2.1
University of Nevada, Reno	1,800	10	1.8
Subtotal	78,143		79.3
All other	20,369		20.7
Total 2012 (188 Agencies)	98,512		100.0%

<u>Participating Agencies</u>	2021		
	<u>Covered Employees</u>	<u>Rank</u>	<u>Percentage of Total System</u>
Clark County School District	31,669	1	29.6%
State of Nevada	17,260	2	16.2
Washoe County School District	7,196	3	6.7
Clark County	7,049	4	6.6
Las Vegas Metropolitan Police Department	5,748	5	5.4
Nevada System of Higher Education (NSHE)	3,645	6	3.4
University Medical Center of Southern Nevada	3,232	7	3.0
City of Las Vegas	2,549	8	2.4
Washoe County	2,525	9	2.4
City of Henderson	2,373	10	2.2
Subtotal	83,246		77.9
All other ^a	23,684		22.1
Total 2021 (214 Agencies)	106,930		100.0%

^a In 2021 "All other" consisted of:

<u>Agency Type</u>	<u>Number of Agencies</u>	<u>Covered Employees</u>
State of Nevada and Related Agencies	22	599
Schools	66	10,556
Counties	14	2,966
Cities	17	4,522
Hospitals	7	888
Utility, Irrigation, and Sanitation Districts	18	880
Special Districts and Agencies	60	3,273
Subtotal	204	23,684
Largest Ten Participating Employers	10	83,246
Total	214	106,930

SCHEDULE 11

AVERAGE AGE AND SERVICE STATISTICS FOR MEMBERS*

As of June 30	Regular		Police/Fire	
	Average Age	Average Years of Service	Average Age	Average Years of Service
2012	46.4	10.0	40.4	11.1
2013	46.5	10.1	40.6	11.3
2014	46.4	10.1	40.8	11.5
2015	46.2	10.0	40.8	11.6
2016	46.0	9.9	40.7	11.5
2017	45.9	9.8	40.2	11.2
2018	45.8	9.9	39.9	11.1
2019	45.7	9.7	39.8	11.0
2020	45.7	9.7	39.5	10.8
2021	45.8	10.0	39.3	10.8

SCHEDULE 12

AVERAGE SALARIES FOR MEMBERS*

As of June 30	Regular	Increase (Decrease)	Police/Fire	Increase (Decrease)
2012	\$ 48,808		\$ 72,523	
2013	48,626	(0.4) %	72,637	0.2 %
2014	48,057	(1.2)	71,990	(0.9)
2015	47,840	(0.5)	72,417	0.6
2016	47,922	0.2	73,179	1.1
2017	49,502	3.3	73,841	0.9
2018	51,193	3.4	76,549	3.7
2019	52,007	1.6	79,586	4.0
2020	53,013	1.9	78,712	(1.1)
2021	54,572	2.9	81,303	3.3
Average annual increase 2012 – 2021		1.18 %	1.21 %	

*Information provided by Segal, the System's actuary.

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PLAN SUMMARY

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Administration

PERS provides retirement, disability, and death benefits to long-term public employees. The System includes the employees of Nevada counties, cities, schools, state government, and other local public employers.

The governing authority of the System is a 7-member board appointed by the Governor. Day-to-day operations are managed by the Executive Officer. Operating funds are provided by transfer of an administrative fee assigned to each member and benefit recipient. Monthly fees at June 30, 2021, were \$3.47 for each Regular member and benefit recipient and \$3.65 for each Police/Fire member and benefit recipient.

Membership

An employee of a participating public employer is required to be a member of the System from the first day of service if he or she is employed in a position which is normally considered to be half-time or more according to the full-time work schedule established by the public employer. Persons employed in an approved police or fire position are covered under the Police/Fire sub-fund. Persons who are not police or fire employees are covered under the Regular sub-fund. Membership is canceled upon refund, retirement, or death. Membership is not canceled automatically upon termination of employment. A member must apply for a refund, distribution, or retirement to cancel membership.

Types of Contribution Plans

All pay that meets the definition of compensation as defined in NRS 286.025(2) is subject to retirement contribution. New hires (in agencies which did not elect the Employer-Pay Contribution Plan (EPC) prior to July 1, 1983) have the option of selecting EPC or the Employee/Employer Contribution Plan. Each plan is described below.

Employer-Pay Contribution Plan (EPC)

Under EPC, contributions are paid on the employee’s behalf by their public employer. However, the employee shares equally in the cost of the contribution rate either through salary reduction or in lieu of a promised pay increase. EPC contributions are not deposited to the individual member’s account and are not available for refund upon termination of employment. Effective July 1, 2019, the EPC contribution rates are 29.25% for Regular members and 42.50% for Police/Fire members.

Employee/Employer Contribution Plan

Effective July 1, 2019, under this plan, the Regular member and the employer each contribute 15.25% of compensation to the System. Police/Fire members and their employers each contributed 22.00% of compensation. Employee contributions made under this plan are refundable upon termination of employment. Employer contributions are not refundable.

Service

Public employees, other than school employees, earn service credit for years, months, and days actually worked. School employees, who are not regular 12-month employees, receive service credit on the basis of a full year if they work full-time for the entire school year. For these same school employees, service for a part of the school year is credited on a ratio of one and one-third days for each day worked.

PLAN SUMMARY

Purchase of Service

Members with five years of creditable service may purchase up to five years of service credit. The member must pay the full actuarial cost associated with age and average compensation at the time of purchase. Members entering the System on or after July 1, 2015, may purchase service; however, the service will not count towards retirement eligibility unless the member has a family medical emergency.

Refund of Contributions

Members who have contributed under the Employee/Employer Contribution plan may withdraw employee contributions if terminating all employment for which contribution is required or if employed in a position ineligible for membership for at least 90 days. A refund cancels all rights of membership.

Repayment of Refunded Contributions

Members who receive a refund of employee contributions and later return to work and re-establish active membership for a period of at least six months may repay the refunded contributions and restore service credit. Repayment, including interest at the actuarially determined rate, may be in the form of a lump-sum payment or by monthly installments. Service will not be restored until repayment is complete.

Benefits

The 2009 Legislature passed Senate Bill 427 which provided for various changes to the System and members newly hired into the System on or after January 1, 2010. The 2015 Legislature passed Senate Bill 406 which applies to members newly hired on or after July 1, 2015. Such changes are noted within each subject area below.

Service Retirement Vesting

Contributing members of the System earn the right to receive a retirement benefit after five years of service.

Service Retirement

Requirements for Regular members to retire with an unreduced benefit – age 65 with five years of service, **or** age 60 with ten years of service, **or** any age with thirty years of service.

For Regular members who enter the System on or after January 1, 2010, to retire with an unreduced benefit – age 65 with five years of service, **or** age 62 with ten years of service, **or** any age with thirty years of service.

For Regular members who enter the System on or after July 1, 2015, to retire with an unreduced benefit – age 65 with five years of service, or age 62 with ten years of service, or age 55 with 30 years of service, or at any age with 33 1/3 years of service.

Requirements for Police/Fire members to retire with an unreduced benefit – age 65 with five years of service, **or** age 55 with ten years of Police/Fire service, **or** age 50 with twenty years of Police/Fire service, **or** at any age with twenty-five years of Police/Fire service.

For Police/Fire members who enter the System on or after January 1, 2010, to retire with an unreduced benefit – age 65 with five years of service, **or** age 60 with ten years of Police/Fire service, **or** age 50 with twenty years of Police/Fire service **or** any age with thirty years of total service.

Only service performed in a position as a police officer or firefighter may be counted towards eligibility for retirement as Police/Fire accredited service.

Early Retirement Penalty

Members with the years of service necessary to receive a retirement benefit but who have not reached the age for an unreduced benefit may retire at any age with the benefit reduced by 4% for each full year they are under the required age.

Members entering the System on or after January 1, 2010, with the years of service necessary to receive a retirement benefit but who have not reached the age for an unreduced benefit may retire at any age with the benefit reduced by 6% for each full year they are under the required age.

Important Factors for Determining Retirement Benefits

Benefit amounts are based on three factors:

1. Average compensation – defined as the average of 36 highest consecutive months of compensation and, for members entering the system on or after January 1, 2010, the average of 36 highest consecutive months of compensation with a provision that each 12-month period of salary may not increase greater than 10% of the prior 12 months of salary reported. Salary increases due to promotion and assignment-related compensation are excluded from the salary cap calculation.
2. Service credit – years, months, and days worked.
3. Selection of retirement plan – prospective retirees may elect one of seven retirement options.

Option 1 – (the unmodified plan) for Regular members – Pays the full monthly benefit earned but provides no income protection for beneficiary after death.

Option 1 – (the unmodified plan) for Police/Fire members – Pays the full monthly benefit earned for the retiree’s lifetime. A person who was the spouse or registered domestic partner at time of retirement shall be entitled, at the time of the retired employee’s death or upon the attainment of age 50, whichever is later, to a benefit of 50% of the deceased retired employee’s benefit earned at the time of his/her death in an eligible police/fire position. This benefit is available only if you are contributing under the Employer Pay contribution plan (EPC) at the time of retirement. Otherwise, no beneficiary allowance is available under this option.

Option 2 – Provides an actuarially reduced lifetime benefit. Upon the death of the retiree, the same benefit continues for the lifetime of the beneficiary.

Option 3 – Provides an actuarially reduced lifetime benefit. Upon the death of the retiree, 50% of the benefit continues for the lifetime of the beneficiary.

Option 4 – Provides an actuarially reduced lifetime benefit. Upon the death of the retiree and upon the beneficiary reaching age 60, the same benefit continues for the lifetime of the beneficiary.

PLAN SUMMARY

Option 5 – Provides an actuarially reduced lifetime benefit to retiree. Upon the death of the retiree and upon beneficiary reaching age 60, 50% of the benefit continues for the lifetime of the beneficiary.

Option 6 – Provides an actuarially reduced lifetime benefit to retiree. Upon death of the retiree, this option provides to the beneficiary a specific sum per month, which cannot exceed the monthly benefit paid to retiree.

Option 7 – Provides an actuarially reduced lifetime benefit to retiree. Upon the death of the retiree this option provides that upon the beneficiary reaching age 60, a specific sum per month, which cannot exceed the monthly benefit paid to retiree.

Post-Retirement Benefit Increases

Retirees are eligible for annual benefit increases starting the fourth year of initially receiving benefits. Benefits are increased annually on the first day of the month following the anniversary of the commencement of benefits. The increases begin at 2% in years four, five, and six; increase to 3% in years seven, eight, and nine; 3.5% in years ten, eleven, and twelve; 4% for years thirteen and fourteen; and 5% in year fifteen and each year thereafter. If the benefit outpaces inflation in the period since retirement, the increase may be capped by a rolling three-year average of the Consumer Price Index (all items).

Retirees who enter the System on or after January 1, 2010, are eligible for annual benefit increases starting the fourth year of initially receiving benefits. Benefits are increased annually on the first day of the month following the anniversary of the commencement of benefits. The increases begin at 2% in years four, five, and six; increase to 3% in years seven, eight, and nine; 3.5% in years ten, eleven, and twelve; and 4% in year thirteen and each year thereafter. If the benefit outpaces inflation in the period since retirement, the increase may be capped by a rolling three-year average of the Consumer Price Index (all items).

Retirees who enter the System on or after July 1, 2015, are eligible for annual benefit increases starting the fourth year of initially receiving benefits. Benefits are increased annually on the first day of the month following the anniversary of the commencement of benefits. The increases begin at 2% in years four, five, and six; increase to 2.5% in years seven, eight, and nine; then adjust to the lesser of 3% or the increase, if any, in the Consumer Price Index (all items) for the preceding calendar year following the tenth year and every year thereafter.

Benefit Formula

The formula used for calculating retirement benefits is as follows:

- Total Service Credit Earned (or purchased) before July 1, 2001 X 2.5% = Service Time Factor
- Total Service Credit Earned (or purchased) on and after July 1, 2001 X 2.67% = Service Time Factor
- Total Service Time Factors X Average Monthly Compensation (36 Highest Consecutive Months of Salary) = Unmodified benefit (Option 1).

For members entering the System on or after January 1, 2010, the formula for calculating retirement benefits is as follows:

- Total Service Credit Earned (or purchased) X 2.5% = Service Time Factor
- Total Service Time Factor X Average Monthly Compensation (36 Highest Consecutive Months of Salary with applicable limits*) = Unmodified benefit (Option 1).

For Regular members entering the System on or after July 1, 2015, the formula for calculating retirement benefits is as follows:

- Total Service Credit Earned X 2.25% = Service Time Factor
- Total Service Time Factor X Average Monthly Compensation (36 Highest Consecutive Months of Salary with applicable limits*) = Unmodified benefit (Option 1).

*Each 12-month period of salary may not increase greater than 10% unless promotion or assignment related.

Maximum benefits are 90% of average compensation for individuals who became members before July 1, 1985, and 75% of average compensation for individuals who became members after June 30, 1985.

Actuarial reductions are based on the member's age and the beneficiary's age at the time of retirement, determined from tables supplied by the System's actuary.

Disability Retirement

Members with five or more years of service who become totally unable to perform their current or any comparable job because of an injury or mental or physical illness of a permanent nature are eligible to apply for disability retirement. The application must be filed with the System prior to termination of employment. Disability retirement benefits are calculated in the same manner as service retirement without reduction for age.

Survivor Benefits

Eligibility

Eligible survivors of a member who dies prior to retirement are entitled to a benefit if:

1. The member had two years of service in the two and one-half years immediately preceding death, or
2. The member had more than ten years of accredited service, or
3. The member's death was caused by an occupational disease or an accident arising out of or in the course of employment, regardless of service credit.

An additional benefit is available for a surviving spouse/registered domestic partner of an active member killed in the line of duty or in the course of employment regardless of service credit. See SB 406 below.

Eligible survivors:

1. Spouse or registered domestic partner
2. Each unmarried dependent child under age 18, or up to age 23 if a full-time student.

PLAN SUMMARY

3. Dependent parents, provided there are no other eligible survivors at the time of member's death.
4. If the member is unmarried at the time of death, one designated survivor beneficiary. Additional payees may also be designated to receive direct payment of a portion of the survivor beneficiary benefit.

Amount of Survivor Benefits

Generally, if a member dies with less than ten years of service, the spouse, registered domestic partner, or survivor beneficiary would receive \$450 per month and each dependent child would receive \$400 per month. The spouse, registered domestic partner, or survivor beneficiary would receive survivor benefits for his or her lifetime. Each unmarried dependent child would receive monthly benefits until age 18, or age 23 if he or she is a full-time student.

If a member dies with more than ten years of service credit, the spouse, registered domestic partner, or survivor beneficiary is entitled to a lifetime benefit. The amount of the benefit is based on the member's age, years of service, and average compensation at the time of death. A dependent child would receive the same benefits as previously described.

A member is able to designate one survivor beneficiary to receive benefits (as described above) to be paid if the member is unmarried at the time of death. A member may also designate additional payees to receive direct payment of a portion of the survivor beneficiary benefit.

SB 406

If a member is killed in the line of duty or the course of employment, the spouse of the member has additional benefit options pursuant to Senate Bill 406 of the 2015 Legislative session. The new benefit entitles the spouse to receive 50% of the salary of the member on the date of death, 100% of the retirement allowance that the member was eligible to receive based on the member's years of service obtained prior to death, or benefits in place prior to July 1, 2015, at the election of the spouse. This benefit is effective for benefits paid on or after July 1, 2015, on account of members killed in the line of duty or course of employment on or after July 1, 2013.