

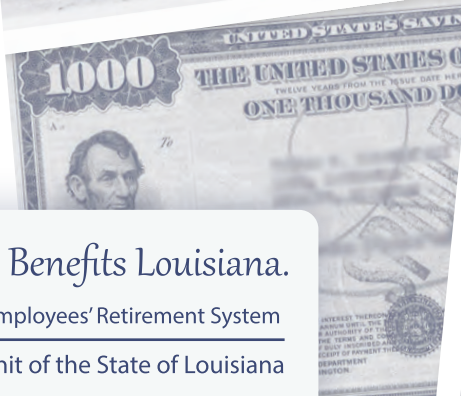


2021 Comprehensive Annual Financial Report

For Fiscal Years Ended June 30, 2021 & 2020



Peabody Hall
Louisiana State University



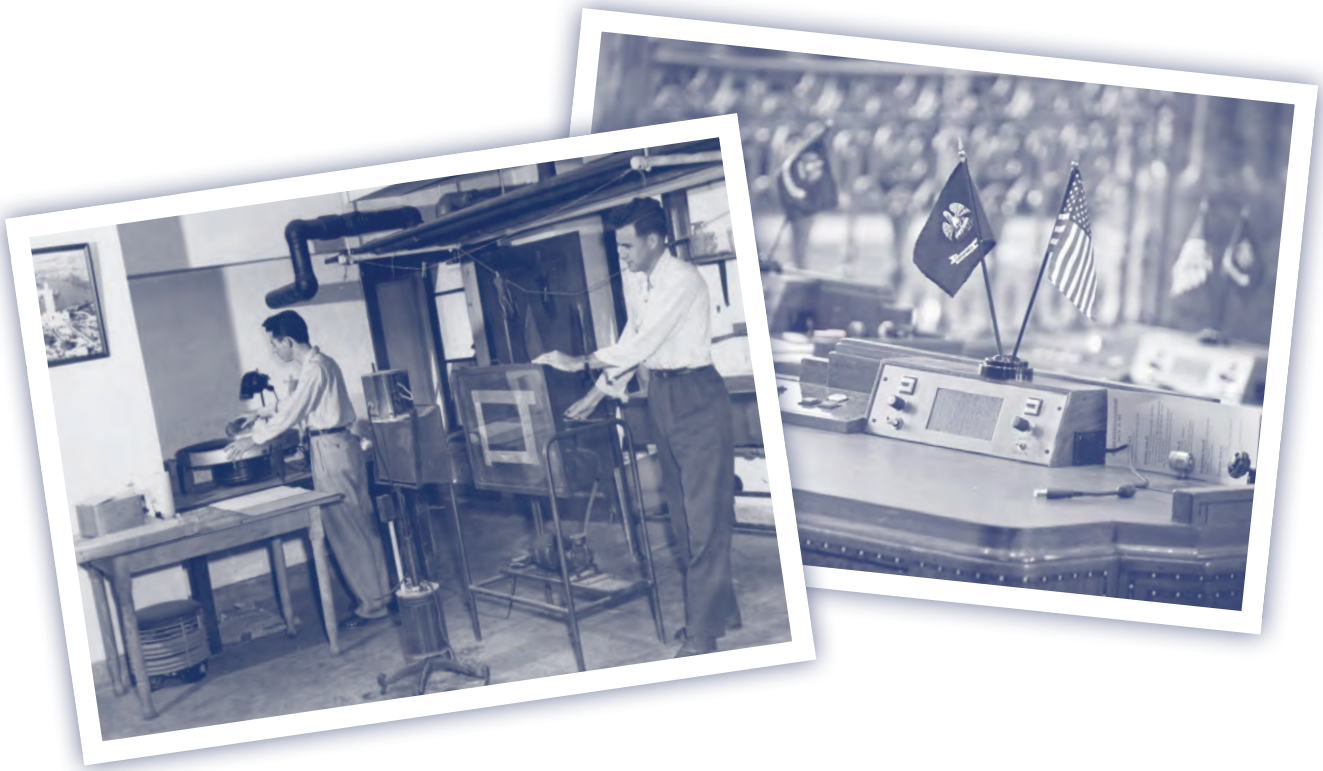
LASERS Benefits Louisiana.

Louisiana State Employees' Retirement System

A component unit of the State of Louisiana

2021 Comprehensive Annual Financial Report

For Fiscal Years Ended June 30, 2021 & 2020



*Photos: (L) Louisiana Department of Commerce and Industry workers, 1940s.
(R) Louisiana Senate Chamber, State Capitol.*

2021 marks the 75th anniversary of the Louisiana State Employees' Retirement System (LASERS). Throughout the year, the System has celebrated this monumental milestone by recognizing our achievements, growth, strength, and the people – Board of Trustee members, executive directors, staff members, and legislators – who have contributed to the success and long-term sustainability of LASERS. In 75 years, our dedication to provide a sound retirement plan for our members through prudent management and exceptional service has never wavered. The archival photographs throughout *LASERS Comprehensive Annual Financial Report* provide a glimpse of our history.

LASERS Benefits Louisiana.

Louisiana State Employees' Retirement System

A component unit of the State of Louisiana

*Prepared by the Fiscal, Investments,
and Public Information Divisions
of the Louisiana State Employees'
Retirement System*

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INTRODUCTORY

SECTION



Photos: (L) Governor Jimmie Davis signing a bill in 1946. (R) First LASERS Executive Director Homer Robinson presenting retirement certificates to the first retirees in 1947.

In July 1946, Louisiana Governor Jimmie Davis and his administration sponsored legislation to create a retirement system that would provide retirement allowances and other benefits for state officers, employees, and their beneficiaries. LASERS was established by Act 126 that year and was appropriated \$725,000 to create and administer the plan. The first members joined the System in 1947.

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Toll-free: 1.800.256.3000 | Local: 225.922.0600 | www.lasersonline.org

October 21, 2021

Dear Board Members:

We are pleased to present to you the *Comprehensive Annual Financial Report* (Annual Report) of the Louisiana State Employees' Retirement System (LASERS or the System) for the fiscal years ended June 30, 2021 and 2020. Although the COVID-19 global pandemic continues to impact the economy and cause market volatility, financial markets have improved dramatically. The 2020-2021 fiscal year saw growing expectations for a return to pre-pandemic normalcy due to stronger-than-expected economic data, vaccine optimism, and stimulus tailwinds. During this fiscal year, the System benefited from both global market improvements as well as the asset allocation changes that were adopted by the Board of Trustees in October 2020. For the fiscal year ending June 30, 2021, LASERS investment portfolio realized a gross-of-fees, time-weighted return on investment assets of 35.6% which is the highest in the System's 75-year history.

This report includes a wealth of information regarding the activities of LASERS during the past fiscal year, providing clear evidence that LASERS is accomplishing its mission of providing a sound retirement plan for our members through prudent management and exceptional customer service. We trust that you and the other members will find this Annual Report helpful in understanding your public employees' retirement system, which is dedicated to protecting your contributions and maximizing your return.

Management Responsibility

This report consists of management's representation concerning LASERS finances. Management assumes full responsibility for the completeness and reliability of all information presented in this report. To provide a reasonable basis for making these representations, management has established a comprehensive internal control framework that is designed both to protect the assets from loss, theft, or misuse, and to compile sufficient, reliable information for the preparation of LASERS financial statements in conformity with generally accepted accounting principles. The internal control framework has been designed to provide reasonable, rather than absolute assurance, that the financial statements will be free from material misstatement. As management, we assert that, to the best of our knowledge and belief, this financial report is complete and reliable in all material respects.

BOARD OF TRUSTEES:

Beverly Hodges, Board Chair
Barbara McManus, Vice Chair
Thomas Bickham
Virginia Burton

Charles Castille
Commissioner Jay Dardenne
Rep. Lance Harris
Judge William Kleinpeter

Janice Lansing
Sen. Barrow Peacock
Lori Pierce
Hon. John Schroder
Shannon Temple

Cindy Rougeou, Executive Director

LASERS Benefits Louisiana.

Our independent external auditors, Postlethwaite & Netterville, have conducted an audit of the basic financial statements in accordance with auditing standards generally accepted in the United States of America, performing such tests and other procedures as they deem necessary to express an opinion in their report to the Board. The external auditors also have full and unrestricted access to the Board to discuss their audit and related findings as to the integrity of the financial reporting and adequacy of internal control systems.

Financial Information

The basic financial statements have been prepared in accordance with generally accepted accounting principles applied on a consistent basis as promulgated by the Governmental Accounting Standards Board (GASB). The Management's Discussion and Analysis (MD&A) includes a narrative introduction, overview, and analysis to accompany the basic financial statements. This Letter of Transmittal is designed to complement the MD&A, and should be read in conjunction with the document. LASERS MD&A can be found immediately following the reports of the independent auditors in the Financial Section of this report.

Profile of LASERS

LASERS is a cost-sharing multiple-employer defined benefit plan, established by the state legislature in 1946, with the first members joining the System on July 1, 1947. The System is a public trust fund created to provide retirement allowances and other benefits for state officers and employees and their beneficiaries. All invested funds, cash, and property are held in the name of LASERS for the sole benefit of the membership. A thirteen-member Board of Trustees (comprised of six active members, three retired members, and four ex officio members) governs the System. The Board administers the programs and appoints key management personnel including the Executive Director, Chief of Staff, Chief Administrative Officer, and the Chief Investment Officer.

The Board of Trustees annually approves an operating budget for administrative expenses that is prepared by staff to address member and employer needs while keeping costs reasonable. The Board must also approve any changes in the budget during the year. In addition to the Trustees' approval, the budget is approved by the Louisiana Joint Legislative Committee on the Budget.

Investments

For the fiscal year, LASERS investment portfolio realized a gross-of-fees, time-weighted return on investment assets of 35.6%. The plan earned an annualized return of 11.5% for the five-year period, 8.0% for the seven-year period, 8.7% for the ten-year period, and 8.3% for the thirty-year period. The foundation of the Investment Division is the asset allocation chosen by the Board of Trustees, which is comprehensively studied, monitored, and adjusted to produce an optimal mix of assets in order to maximize returns while minimizing risk. A more detailed exhibit of investment performance and a summary of LASERS Statement of Investment Objectives can be found in the Investment Section of this report.

Funding

Annually, the LASERS actuary determines the funding requirements needed to meet current and future benefit obligations. Actuarial contributions are based on normal cost and amortization of the unfunded accrued liability, which has existed since the System's inception. Employers are required to pay the percentage of total payroll equal to the normal cost plus an amount sufficient to amortize the unfunded accrued liability as outlined in Louisiana Revised Statute 11:102 as it pertains to LASERS. This year the LASERS actuary is recommending that the Public Retirement Systems' Actuarial Committee (PRSAC) approve a composite employer contribution rate of 41.0% for the fiscal year ending June 30, 2023.

The actuarial value of member benefit liabilities exceeds the value of actuarial assets. At year-end, the ratio of the value of actuarial assets to actuarial accrued liabilities increased to 66.0% and the System's unfunded actuarial accrued liability decreased to \$6.9 billion, primarily a result of amortization payments, an investment experience gain, and an employer contribution surplus. The investment yield on the actuarial value of assets was 7.6% for 30 years, which is greater than the net actuarial assumed rate of 7.4%. LASERS Board reduced the discount rate to 7.4% from 7.6% effective July 2, 2021. Over the last decade, LASERS has reduced the discount rate from 8.25% to 7.40% and changed the actuarial cost method from projected unit credit to entry age normal which in total have increased the unfunded accrued liability by \$2.0 billion. If not for these changes, the funded ratio would be approximately 73.1%. Additional information regarding the financial condition of the pension trust fund can be found in the Actuarial Section of this report.

Major Initiatives

Part of our mission is to provide exceptional customer service to our members and contributing agencies as well as to improve the financial security of our members. Key accomplishments for the past year are summarized below:

System Governance

LASERS has positioned itself for the future with significant objectives and performance indicators. The Board of Trustees continues to follow an adopted Board Resolution expressing that the following matters have reached a critical state of importance to System members elevating them to the status of significant board issues:

1. Identification and implementation of a legislatively enacted mechanism for the funding and granting of an annual cost-of-living adjustment for eligible System retirees in a reliable and dependable manner;
2. Preservation of the defined benefit plan for current and future LASERS members;
3. Preservation of Board autonomy as well as its primary composition of elected active and retired system members; and
4. While continuing to oppose mandatory Social Security participation, seek the reduction or elimination of the federal offsets, the Windfall Elimination Provision and the Government Pension Offset.

Legislation

The 2021 Regular Session of the Louisiana Legislature resulted in the passage of the following legislation, which affects the Plan administered by LASERS:

- Act 37 provides a minimum cost-of-living adjustment (COLA) for certain retirees and beneficiaries.
- Act 137 provides relative to the selection of certain optional survivor benefits for members of LASERS.
- Act 120 appropriates \$8.4 million in State nonrecurring revenue to LASERS to be applied to the initial unfunded accrued liability.

Technology Improvements

Over the past year, we have addressed the following technology improvements:

- Completed a major overhaul of the member portal (myLASERS) which included document viewing, submitting and electronic signature, application status, member message center, along with modern security available on any platform (desktop, tablet, mobile).
- Upgraded JD Edwards Financial software to the latest version.
- Upgraded the Enterprise Content Management system (Optimus) to a new workflow manager and enhanced automated testing.
- Implemented a new Storage Area Network.
- Implemented new security features to manage computer systems both on and offsite which is especially useful with the hybrid work-from-home environment.
- Implemented new tools to reduce security threats through monitoring of email, cyber activity, suspect actions, identification of known vulnerabilities, secure communication, and staff training.
- Refresh of equipment in Board room to provide for easier video conferencing.

Our next strategic projects will include:

- Designing and implementing an all new Employer Self-Service System.
- Researching, designing, and implementing a new phone system to provide improved services for the member call center.
- Pilot and implement cloud backups to improve access time to point-in-time data.
- Pilot and implement cloud source control and agency ticket management.

Long-term Investment Program

LASERS had approximately \$14.5 billion under management as of June 30, 2021. This is an increase of \$5.2 billion over the last decade, illustrating the stability of the plan.

The Investment Program continuously maintains its commitment to a broadly diversified portfolio and achieving its actuarial rate of return with the least possible risk. LASERS allocation includes equities, fixed income, and alternative investments, which has consisted of private markets, risk parity, and absolute return strategies. The allocation adopted in October 2020 included increases to U.S. Equity, Global Multi-Sector, and Private Markets. Decreases were

made in International Equity and Absolute Return Strategies, with High Yield Fixed Income and Risk Parity allocations being eliminated. These changes were made after an extensive asset allocation study following the dynamically changed investment market post COVID-19. Full implementation of the allocation remains underway.

LASERS works closely with its investment consultant to conduct a thorough asset allocation and liability review on an annual basis. In addition, our Chief Investment Officer reviews the asset allocation regularly to ensure that it is consistent with the exposure ranges set for LASERS. When necessary, funds are rebalanced, taking into consideration market conditions and transaction costs. This sound asset allocation approach does not veer off course due to market swings.

The System now manages more than 38% of its assets internally, saving millions in management fees each year. Other cost-saving measures include monitoring investment manager trade execution costs and negotiating favorable investment management fees. The Investment Division continues to work with the custodian bank to enhance reporting capabilities, build upon the in-house trade management system, and enhance its risk management evaluation capabilities.

Online Access Expanded

Utilization of technology to improve overall agency performance, communication, and education continues to be a major initiative of LASERS to enhance customer service to its members and agencies.

LASERS launched the new online member platform, myLASERS, in December 2020, requiring all members to create a new account using Multi-Factor Authentication. Increased security features, new features such as e-forms and document uploads in the program, application tracking, and communication options with LASERS are a part of the updated platform.

LASERS website, www.lasersonline.org, is continually upgraded to provide access to current System information and news, educational programs, forms, publications, legislation, investment performance, GASB resources, and a video library. Over the past year, LASERS produced 28 videos to reach active and retired members, the Board of Trustees, legislators, staff, and affiliate organizations with critical retirement information.

LASERS continued to utilize the website to deliver information regarding COVID-19 building occupancy limits, appointment availability, and safety protocol for visitors.

Member Outreach Enhanced

The Member Services Division focuses on educating members, retirees, and agencies across the state on LASERS retirement options. LASERS has continued to make adjustments in light of COVID-19 restrictions and has offered additional service options to its members.

As staff transitioned back into the office, the gradual return to in-person appointments was implemented. Customer Service continues to offer phone and video counseling through Microsoft Teams, in addition to in-office appointments and walk-in visitors. The LASERS Education Team created virtual learning seminars through Microsoft Teams allowing members from across the state to receive educational information. Both the LASERS Pre-Retirement

Education Program (PREP) and Early Career seminars were reformatted. This platform allows members to sign in and view the seminar as it is happening. Attendees can also ask questions through an instant message feature.

LASERS launched a year-long (2021) communications initiative to promote the System's 75th Anniversary through the website, social media, print and digital publications, legislative resolutions/commendations, and a commemorative video. The goal of this outreach effort is to celebrate our achievements, growth, strength, and continued dedication to our members.

Awards

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to LASERS for its *Comprehensive Annual Financial Report* (Annual Report) for the fiscal year ended June 30, 2020. This was the twenty-fourth consecutive year that the System has achieved this prestigious award. In order to be awarded a Certificate of Achievement, a governmental unit must publish an easily readable and efficiently organized Annual Report. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of only one year. We believe that our current Annual Report continues to meet the Certificate of Achievement Program's requirements, and we are submitting it to the GFOA to determine its eligibility for another certificate.

LASERS also received the GFOA award for its *Popular Annual Financial Report* (PAFR) entitled *LASERS Summary Annual Report*, for the fiscal year ended 2020. This was the twenty-second consecutive year LASERS has received this award. The *Popular Annual Financial Report* presents, in a less technical manner, some of the major financial, actuarial, and other interesting information for the reporting year.

In addition, LASERS received the 2020 Public Pension Standards Award. The Public Pension Coordinating Council presents this award to public employee retirement systems in recognition of their achievement of high professional standards in the areas of plan design and administration, benefits, actuarial valuations, financial reporting, investments, and membership communications. This is the seventeenth consecutive year that LASERS has received this prestigious award.

Conclusion

This report is a product of the combined efforts of the System's staff and advisors functioning under your leadership. It is intended to provide extensive and reliable information that will facilitate management decisions, serve as a means for determining compliance with legal provisions, and allow for the evaluation of responsible stewardship of the funds of the System.


We would like to recognize the teamwork and contributions of our experienced and dedicated staff. They continue to keep the best interests of our members as their top priority. As we celebrate our 75th year and look toward the future, we will continue to fine-tune our investment strategies to make every investment dollar count and to minimize employer contributions. Also,

we will look to develop innovative programs to improve the value of the services provided to our members.

Respectfully submitted,



Cindy Rougeou
Executive Director

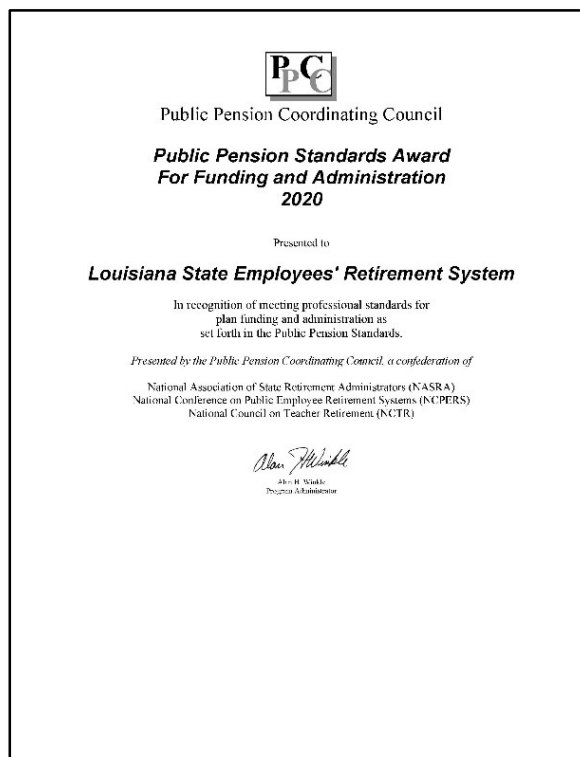


Arthur P. Fillastre, IV CPA
Chief Financial Officer

Certificate of Achievement for Excellence in Financial Reporting 2020



Public Pension Standards Award 2020



Administrative Organization



Cindy Rougeou,
Executive Director



Bernard E. "Trey"
Boudreaux, III,
Chief of Staff



Travis McIlwain,
*Chief Administrative
Officer*



Robert W. Beale,
*Chief Investment
Officer*



Tina Grant,
Executive Counsel



Ryan Babin,
*Audit Division
Director*



Dan Bowden,
*Information
Technology
Division Director*



Tricia Gibbons,
*Member Services
Division Director*



Arthur P. Fillastre, IV,
Chief Financial Officer



Sheila Metoyer,
*Human Resources
Division Director*



Tonja Normand,
*Public Information
Division Director*

Board of Trustees

Elected Members



Beverly Hodges,
*Board Chair,
Active Member*



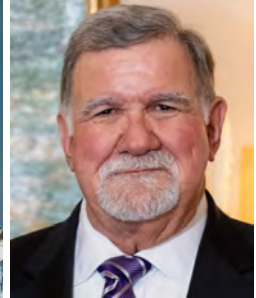
Barbara McManus,
*Vice Chair,
Retired Member*



Thomas Bickham,
Active Member



Virginia Burton,
Retired Member



Charles Castille,
Retired Member



Judge William
Kleinpeter, *Active
Member*



Janice Lansing,
Active Member



Lori Pierce,
Active Member



Shannon Templet,
Active Member

Ex Officio Members



Commissioner Jay
Dardenne, *Division
of Administration*



Senator Barrow
Peacock, *Designee,
Senate Committee on
Retirement*



Representative
Lance Harris,
*Chair, House
Committee on
Retirement*



Honorable John
Schroder, *State
Treasurer*

Professional Consultants

June 30, 2021

Actuary

Foster & Foster Actuaries & Consultants, Inc.

Auditor

Postlethwaite & Netterville, APAC

Custodian Banks and Security Agents

BNY Mellon Asset Servicing

Empower Retirement

JPMorgan Chase

Legal/Tax Consultants

Deloitte & Touche

DLA Piper LLP

Financial Recovery Technologies

Laura Denson Holmes

Lowenstein Sandler

PricewaterhouseCoopers Private Limited

Roedel Parsons Koch Balhoff & McCollister

Tarcza & Associates, LLC

Wtax

Medical Examiners

Dr. Thad S. Broussard

Dr. Rennie Culver

Dr. David Ferachi

Dr. Shawn Granger

Dr. Brian Gremillion

Dr. Andrew Morson

Dr. Radha Raman

Dr. Dominick J. Scimeca Jr.

Other Consultants

CMA Technology Solutions

Cognizant Technology Solutions US Corp.

Election Services, Co.

ERP-One Consulting Inc.

Guidepoint Security, LLC

Investment Consultant

NEPC, LLC

Investment Advisorsⁱ

Adams Street Partners, LLC

AEA Investors, LP

Altas Partners Holdings

Apax Partners, LLP

Apollo Management, LP

Arclight Capital Partners

Arrowmark Partners

Baring Private Equity Asia

Bernhard Capital Partners

BlackRock Financial Management Inc.

Brookfield Asset Management

CCMP Capital Advisors, LP

Cerberus Capital Management, LP

City of London Investment Group PLC

Coller Capital

DoubleLine Capital, LP

DRI Capital Inc.

EIG Global Energy Partners, LLC

Energy Spectrum Partners, LP

EnTrustPermal

Gamut Capital Management

Glendower Capital

GoldenTree Asset Management

Goldman Sachs Asset Management, LP

Gramercy Advisors, LLC

GTCR, LLC

Harbourvest Partners, LLC

Insight Venture Partners

J.P. Morgan Investment Management Inc.

Kohlberg Kravis Roberts & Co., LP

KPS Capital Partners, LP

Loomis, Sayles & Company, LP

LSV Asset Management

Mesirow Financial Private Equity

Professional Consultants (continued)

June 30, 2021

Investment Advisorsⁱ (continued)

Mondrian Investments Partners Limited
Newstone Capital Partners, LLC
Nomura Corporate Research and Asset Management Inc.
Oak Hill Advisors, LP
Oaktree Capital Management, LP
Orleans Capital Management
PAAMCO Prisma, LLC
Pantheon Ventures, LLP
Pacific Investment Management Company, LLC
Private Advisors, LLC
Siguler Guff & Company, LP
Stark Investments
Stepstone Capital, LP
Sterling Partners, LP
Stone Harbor Investment Partners, LP
The Blackstone Group Inc.
Vista Equity Partners Management, LLC
W.R. Huff Asset Management Co., LLC
Warburg Pincus, LLC
Westwood Global Investments, LLC
Williams Capital Partners, LP
Zais Group

ⁱ*Schedules of Brokerage Commissions Paid and Investment Fees* are located in the "Investment Section" of this report on page 95.

FINANCIAL SECTION



Photos: (L) Swearing in of LASERS Board of Trustees C.O. Roberts, Robert Allen, and Mary Cannon by C.C. Wood, Special Assistant Attorney General, 1971. (R) Interior of the Louisiana State Capitol.

Since 1946, LASERS has experienced significant growth in plan assets. Our number of active and retired members has changed substantially, and LASERS continues to provide a modest average retirement benefit to our members. Through the years, the LASERS Board of Trustees and staff have worked with the Legislature to implement numerous reforms, further enhancing the future sustainability of our plan and security of our members.

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 225-922-4600 Phone – 225-922-4611 Fax – pncpa.com

A Professional Accounting Corporation

INDEPENDENT AUDITORS' REPORT

To the Board of Trustees
 Louisiana State Employees' Retirement System
 Baton Rouge, Louisiana

We have audited the accompanying financial statements of the Louisiana State Employees' Retirement System (LASERS), a component unit of the State of Louisiana, which comprise the statement of fiduciary net position as of June 30, 2021 and 2020 and the related statement of changes in fiduciary statement of net position for the years then ended and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

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.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. 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 auditors' 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 auditors consider internal control relevant to LASERS' 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 LASERS' 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 opinions.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective fiduciary net position of the Louisiana State Employees' Retirement System, at June 30, 2021 and 2020, and the respective changes in fiduciary net position for the years then ended in accordance with accounting principles generally accepted in the United States of America.



Emphasis of Matter

As disclosed in Note F to the financial statements, the financial statements include investments that are not listed on national exchanges or for which quoted market prices are not available. These investments include private markets, absolute returns, and risk parity. Such investments totaled \$3.3 billion and \$3.0 billion (20.8% and 24.0% of total assets, respectively) at June 30, 2021 and 2020, respectively. Where a publicly listed price is not available, the management of LASERS uses alternative sources of information including audited financial statements, unaudited interim reports, and similar evidence to determine the fair value of the investments. Our opinion is not modified with respect to this matter.

As disclosed in Note A to the financial statements, the total pension liability for LASERS was \$20.2 billion and \$19.7 billion at June 30, 2021 and 2020, respectively. The actuarial valuations were based on various assumptions made by LASERS' actuary. Because actual experience may differ from the assumptions used in the actuarial valuation, there is a risk that the total pension liability at June 30, 2021 and 2020 could be materially different from the estimate.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and other required supplementary information, 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 opinions on the financial statements that collectively comprise the Louisiana State Employees' Retirement System's basic financial statements. The supporting schedules, as listed in the table of contents, are presented for purposes of additional analysis and are not a required part of the basic financial statements. The supporting schedules are the responsibility of management and were derived from and relate 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 supporting schedules are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introductory section, investment section, actuarial section, and statistical section 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.

**Other Reporting Required by *Government Auditing Standards***

In accordance with *Government Auditing Standards*, we have also issued our report dated September 20, 2021, on our consideration of the Louisiana State Employees' Retirement System's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of Louisiana State Employees' Retirement System's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Louisiana State Employees' Retirement System's internal control over financial reporting and compliance.

Postlethwaite & Netterville

Baton Rouge, Louisiana
September 20, 2021



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A Professional Accounting Corporation

**INDEPENDENT AUDITORS' REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND
 ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS
 PERFORMED IN ACCORDANCE WITH *GOVERNMENT AUDITING STANDARDS***

To the Board of Trustees
 Louisiana State Employees' Retirement System
 Baton Rouge, Louisiana

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the Louisiana State Employees' Retirement System (LASERS), a component unit of the State of Louisiana, as of and for the year ended June 30, 2021, and the related notes to the financial statements, which collectively comprise the Louisiana State Employees' Retirement System's basic financial statements, and have issued our report thereon dated September 20, 2021.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the Louisiana State Employees' Retirement System's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Louisiana State Employees' Retirement System's internal control. Accordingly, we do not express an opinion on the effectiveness of the Louisiana State Employees' Retirement System's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of LASERS' financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over financial reporting was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.



Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Louisiana State Employees' Retirement System's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of Louisiana State Employees' Retirement System's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering Louisiana State Employees' Retirement System's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

A handwritten signature in black ink that reads 'Postlethwaite & Netterville' in a cursive, script style.

Baton Rouge, Louisiana
September 20, 2021



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Management's Discussion and Analysis

The following is management's discussion and analysis of the financial performance of the Louisiana State Employees' Retirement System (LASERS or the System). This narrative overview and analysis help to interpret the key elements of the financial statements, notes to the financial statements, required supplementary information, and supporting schedules for the current year. Readers are encouraged to consider the information presented here in conjunction with additional information provided in the Transmittal Letter of LASERS Comprehensive Annual Financial Report (Annual Report).

Financial Highlights

- Net position restricted for pensions increased by \$3.3 billion.
- LASERS had a Net Pension Liability of \$5.5 billion and the Net Pension Liability as a percentage of covered payroll was 274.6% as of June 30, 2021.
- Net investment income experienced a gain of \$3.7 billion for 2021 compared to a loss of \$480.6 million for 2020.
- Total contributions increased by \$1.5 million or 0.1% to \$1.0 billion in 2021.
- Benefit payments increased by \$26.9 million or 2.0% to \$1.4 billion in 2021.
- Refund and transfer payments of member contributions decreased by \$142 thousand or 0.5% to \$30.3 million in 2021.

Overview of the Financial Statements

The System's basic financial statements were prepared in conformity with Governmental Accounting Standards Board (GASB) Statement No. 67, *Financial Reporting for Pension Plans* and include the following: (1) statements of fiduciary net position, (2) statements of changes in fiduciary net position, (3) notes to the financial statements, (4) required supplementary information, and (5) the supporting schedules.

The Statements of Fiduciary Net Position report the System's assets, liabilities, deferred inflows/outflows, and resultant net position restricted for pensions. They disclose the financial position of the System as of June 30, 2021, and 2020, respectively.

The Statements of Changes in Fiduciary Net Position report the results of the System's operations during years 2021 and 2020 disclosing the additions to and deductions from the fiduciary net position. They support the change that has occurred to the prior year's net position on the statement of fiduciary net position.

Notes to the Financial Statements provide additional information that is essential to a full understanding of the financial statements.

- Note A provides a general description of LASERS organization, employer and membership participation, net pension liability of employers, actuarial methods and assumptions, eligibility, benefits, and the optional retirement plan.
- Note B provides a summary of significant accounting policies and plan position matters including the basis of accounting, securities lending, estimates, methods used to value investments, property and equipment, and accumulated leave.
- Note C provides information regarding member and employer contribution requirements.
- Note D categorizes LASERS investments by fair value measurements, the level of fair value hierarchy, and valuation techniques established by generally accepted accounting principles. It also discloses information regarding certain investments that calculate net asset value per share and provides a description of related asset classes.
- Note E describes LASERS deposits and investment risk disclosures, which include custodial credit risk, concentration of credit risk, credit risk, interest rate risk, and foreign currency risk.
- Note F describes the System's cash and investments, and includes information regarding bank balances, investments including the investment policy and rate of return, domestic equity, international equity, domestic core fixed income, global fixed income, emerging market debt, global multi-sector fixed income, derivatives, and alternative investments.
- Note G provides information regarding the securities lending program.
- Note H provides information on total other postemployment benefits (OPEB).

Required Supplementary Information consists of five schedules and related notes concerning changes in net pension liability, employers' net pension liability, employer pension contributions, and the money-weighted rate of investment returns. It also includes a schedule of proportionate share of the collective total OPEB liability. The related notes disclose key historical actuarial assumptions and methods used in the schedules.

The *Supporting Schedules* section includes the schedules of administrative expenses, investment expenses, board compensation, and professional/consultant fees.

Financial Analysis

LASERS financial position is measured in several ways. One way is to determine the fiduciary net position (difference between total assets plus deferred outflows and total liabilities plus deferred inflows) available to pay benefits. Over time, increases and decreases in the LASERS fiduciary net position indicate whether its financial health is improving or deteriorating. Other factors, such as financial market conditions and the measurement of its net pension liability, should also be taken into consideration when measuring LASERS overall health.

The following table illustrates a condensed version of LASERS Statements of Fiduciary Net Position for fiscal years ending 2021, 2020, and 2019. LASERS fiduciary net position as of June 30, 2021 and 2020, totaled \$14,716,344,767 and \$11,420,710,895, respectively. All of the fiduciary net position is available to meet LASERS ongoing obligations to members, retirees, and beneficiaries.

Condensed Comparative Statements of Fiduciary Net Position

	2021	2020	2019
Cash and Cash Equivalents	\$ 148,590,579	\$ 139,023,019	\$ 134,308,012
Receivables	188,827,426	171,926,994	166,913,609
Investments	14,523,879,752	11,218,189,209	12,078,004,681
Securities Lending Cash Collateral	967,315,754	1,079,839,165	1,350,818,807
Capital Assets (at cost) - Net	5,954,546	6,217,506	5,853,457
Total Assets	15,834,568,057	12,615,195,893	13,735,898,566
Deferred Outflows of Resources	1,964,402	1,075,248	533,161
Accounts Payable and Other Liabilities	150,559,064	112,421,630	101,259,571
Securities Lending Obligations	967,309,307	1,079,832,536	1,350,756,954
Total Liabilities	1,117,868,371	1,192,254,166	1,452,016,525
Deferred Inflows of Resources	2,319,321	3,306,080	1,716,211
Net Position Restricted for Pensions	\$ 14,716,344,767	\$ 11,420,710,895	\$ 12,282,698,991

For the fiscal year ended June 30, 2021, fiduciary net position was approximately \$14.7 billion. This reflected an increase of \$3,295,633,872 from the previous fiscal year-end. This increase can mainly be attributed to increases in investments of \$3,305,690,543. In 2021, OPEB deferred outflows increased by 82.7% to \$1,964,402 and deferred inflows decreased by 29.8% to \$2,319,321. In the one-year period from June 30, 2019 to June 30, 2020, LASERS fiduciary net position decreased by \$861,988,096. The increase in fiduciary net position in the current year over the prior two years can be attributed to market recovery realized from a combination of federal stimulus and vaccine development in response to the COVID-19 pandemic which is discussed in *Note B. Summary of Significant Accounting Policies*.

LASERS maintains its commitment to a broadly diversified portfolio. Carefully underwritten and conservative assumptions for future expected returns have been adopted, and the investment portfolio is structured to optimize the risk-return trade-off. This is done in part by reviewing the Plan's asset allocation. LASERS continues to believe that it is well positioned to meet its long-term goals.

Condensed Comparative Statements of Changes in Fiduciary Net Position

	2021	2020	2019
Additions			
Employer Contributions	\$ 853,214,442	\$ 854,117,785	\$ 769,629,768
Employee Contributions	166,954,560	164,576,018	160,338,556
Net Investment Income (Loss)	3,703,593,259	(480,573,814)	452,914,317
Other Income	14,556,140	15,955,512	13,052,134
Total Additions	4,738,318,401	554,075,501	1,395,934,775
Deductions			
Retirement Benefits	1,394,914,135	1,368,004,318	1,343,892,705
Refunds and Transfers of Contributions	30,305,050	30,447,178	34,948,707
Administrative Expenses	16,606,586	16,749,257	16,785,776
Other Postemployment Benefits Expenses	89,651	42,750	538,097
Depreciation and Amortization Expenses	769,107	820,094	783,617
Total Deductions	1,442,684,529	1,416,063,597	1,396,948,902
Net Increase (Decrease) in Net Position	3,295,633,872	(861,988,096)	(1,014,127)
Net Position Restricted for Pensions			
Beginning of Year	11,420,710,895	12,282,698,991	12,283,713,118
End of Year	\$ 14,716,344,767	\$ 11,420,710,895	\$ 12,282,698,991

Additions to Fiduciary Net Position

The revenues needed to finance retirement benefits are accumulated primarily through the collection of employer and employee contributions and earnings on investments. Revenue for the fiscal year ended June 30, 2021, totaled \$4,738,318,401. The revenue consisted of employer and employee contributions totaling \$1,020,169,002, a net investment gain of \$3,703,593,259, and other income of \$14,556,140. In 2021, our investment portfolio completed the fiscal year with a rate of return on investment assets of 35.6%. The plan earned an annualized return of 11.5% for the five-year period, 8.7% for the ten-year period, and 8.3% for the thirty-year period. LASERS experienced a total net investment income of \$3,703,593,259 in 2021 compared to a total net investment loss of \$480,573,814, and a total net investment income of \$452,914,317 in 2020 and 2019, respectively. The investment income is attributable to improved market performance realized from a combination of federal stimulus and vaccine development in response to the COVID-19 pandemic which is discussed in *Note B. Summary of Significant Accounting Policies*.

During 2021, combined employer and employee contribution income increased from 2020 by \$1,475,199. Employer contributions, which includes contributions based on covered payroll and from legislative acts, decreased \$903,343 or 0.1%, and member contributions increased \$2,378,542, or 1.4%. The decrease in employer contributions was primarily the result of a decrease in income from legislative acts.

At June 30, 2020, total additions decreased by 60.3% or \$841,859,274 over fiscal year 2019. The decreased revenue was due primarily to net investment income decreasing 206.1% from 2019. Combined

contributions increased 9.5% and other income increased 22.2%. Our investment portfolio completed the fiscal year with a rate of return on investment assets of -3.8%.

Deductions from Plan Assets

LASERS was created to provide lifetime retirement, survivor, and disability benefits to qualified LASERS members. The cost of such programs includes recurring benefit payments, refund of contributions to employees who left the System, and the cost of administering LASERS.

Deductions for the fiscal year ended June 30, 2021, totaled \$1,442,684,529, an increase of approximately 1.9% over June 30, 2020. For the fiscal year ended June 30, 2020, deductions were \$1,416,063,597, an increase of about 1.4% over June 30, 2019. The increase in deductions for fiscal years ended 2021 and 2020 is primarily a result of an increase in benefits. Benefits paid in 2021, 2020, and 2019 increased because of the increase in the number of retirees and the average benefit resulting from the higher average salary history of the newer retirees.

Administrative expenses decreased by \$142,671 or 0.9% for the fiscal year ended June 30, 2021. In 2020, administrative expenses decreased by \$36,519 or 0.2% over fiscal year ended 2019. The decreases in 2021 and 2020 are because of reduced travel due to the COVID-19 pandemic. The difference in 2020 is primarily attributable to the completion of two phases of LASERS new enterprise content management system. Details of administrative expense activity can be found in the *Schedules of Administrative Expenses* located under Supporting Schedules.

OPEB expenses increased \$46,901 or 109.7% for the fiscal year ended June 30, 2021, compared to June 30, 2020. OPEB expenses decreased \$495,347 or 92.1% for the fiscal year ended June 30, 2020, compared to June 30, 2019.

Depreciation and amortization expense decreased 6.2% for the fiscal year ended June 30, 2021, compared to a 4.7% increase for 2020 over 2019. The decrease in 2021 can be attributed to a decrease in depreciable assets due to disposals. The increase for 2020 compared to 2019 can be credited to an increase in depreciable assets.

Total additions less total deductions resulted in a net increase in fiduciary net position of \$3,295,633,872 in 2021, compared to a decrease of \$861,988,096 in 2020.

Requests for Information

This Financial Report is designed to provide a general overview of the System's finances. For questions concerning any information in this report or for additional information, contact the Louisiana State Employees' Retirement System; Attention: Fiscal Division, P. O. Box 44213, Baton Rouge, LA 70804-4213.

Louisiana State Employees' Retirement System

Statements of Fiduciary Net Position

June 30, 2021 and 2020

	2021	2020
Assets		
Cash and Cash Equivalents	\$ 148,590,579	\$ 139,023,019
Receivables:		
Employer Contributions	62,556,543	61,312,388
Member Contributions	12,856,765	12,642,409
Interest and Dividends	36,793,910	36,168,215
Investment Proceeds	71,781,882	58,183,871
Other	4,838,326	3,620,111
Total Receivables	188,827,426	171,926,994
Investments:		
Investments at Fair Value		
Short-Term Investments - Domestic/International	250,365,783	533,930,023
Bonds/Fixed Income - Domestic	807,774,165	761,329,226
Bonds/Fixed Income - International	1,687,925,583	1,267,656,475
Equity Securities - Domestic	4,301,389,387	2,172,131,338
Equity Securities - International	3,644,585,085	2,929,335,194
Alternative Investments	3,298,280,425	3,028,015,501
Total Investments at Fair Value	13,990,320,428	10,692,397,757
Investments at Contract Value		
Synthetic Guaranteed Investment Contract	533,559,324	525,791,452
Total Investments at Contract Value	533,559,324	525,791,452
Total Investments	14,523,879,752	11,218,189,209
Securities Lending Cash Collateral	967,315,754	1,079,839,165
Capital Assets (at cost) - Net:		
Property and Equipment	5,954,546	6,217,506
Total Assets	15,834,568,057	12,615,195,893
Deferred Outflows of Resources (OPEB)	1,964,402	1,075,248
Liabilities		
Payables:		
Investment Commitments	108,444,064	73,006,629
Trade Payables and Other Accrued Liabilities	42,115,000	39,415,001
Total Payables	150,559,064	112,421,630
Securities Lending Obligations	967,309,307	1,079,832,536
Total Liabilities	1,117,868,371	1,192,254,166
Deferred Inflows of Resources (OPEB)	2,319,321	3,306,080
Net Position Restricted for Pensions	\$ 14,716,344,767	\$ 11,420,710,895

The accompanying notes are an integral part of these statements.

Louisiana State Employees' Retirement System

Statements of Changes in Fiduciary Net Position

For the Periods Ended June 30, 2021 and 2020

	2021	2020
Additions		
Contributions:		
Employer Contributions	\$ 844,776,387	\$ 837,449,602
Employee Contributions	166,954,560	164,576,018
Legislative Acts Income	8,438,055	16,668,183
Total Contributions	1,020,169,002	1,018,693,803
Investment Income:		
<i>From Investment Activities</i>		
Net Appreciation (Depreciation) in Fair Value of Investments	2,559,071,450	(557,982,282)
Interest & Dividends	211,015,539	218,044,755
Alternative Investment Income (Loss)	1,030,316,095	(54,101,427)
Miscellaneous Investment Income	2,782,448	1,000,568
Total Investment Income (Loss)	3,803,185,532	(393,038,386)
<i>Investment Activity Expenses</i>		
Alternative Investment Expenses	(59,601,309)	(58,349,249)
Investment Management Expenses	(42,711,923)	(34,068,184)
Total Investment Expenses	(102,313,232)	(92,417,433)
Net Income (Loss) from Investing Activities	3,700,872,300	(485,455,819)
<i>From Securities Lending Activities</i>		
Securities Lending Income	3,326,346	14,180,760
Securities Lending Expenses	(605,387)	(9,298,755)
Net Income from Securities Lending Activities	2,720,959	4,882,005
Total Net Investment Income (Loss)	3,703,593,259	(480,573,814)
Other Operating Income	14,556,140	15,955,512
Total Additions	4,738,318,401	554,075,501
Deductions		
Retirement Benefits	1,394,914,135	1,368,004,318
Refunds and Transfers of Member Contributions	30,305,050	30,447,178
Administrative Expenses	16,606,586	16,749,257
Other Postemployment Benefits Expenses	89,651	42,750
Depreciation and Amortization Expenses	769,107	820,094
Total Deductions	1,442,684,529	1,416,063,597
Net Increase (Decrease) in Net Position	3,295,633,872	(861,988,096)
Net Position Restricted for Pensions		
Beginning of Period	11,420,710,895	12,282,698,991
End of Period	\$ 14,716,344,767	\$ 11,420,710,895

The accompanying notes are an integral part of these statements.

Notes to Financial Statements

A. Plan Description

1. General Organization

The Louisiana State Employees' Retirement System (LASERS or the System) is the administrator of a cost-sharing multi-employer defined benefit pension plan and is a component unit of the State of Louisiana included in the State's Comprehensive Annual Financial Report (Annual Report) as a pension trust fund. The System was established by Section 401 of Title 11 of the Louisiana Revised Statutes (La. R.S. 11:401).

In accordance with Louisiana Revised Statutes, the System is subject to certain elements of oversight:

- The House and Senate Committees on Retirement review administration, benefits, investments, and funding of the public retirement systems.
- The operating budget of the System is subject to budgetary review and approval by the Joint Legislative Committee on the Budget.
- The Legislative Auditor is responsible for the procurement of audits for the public retirement systems and is authorized to contract with a licensed Certified Public Accountant (CPA) for each audit.
- Actuarial calculations and results are reviewed by the Public Retirement Systems' Actuarial Committee (PRSAC) annually.
- A thirteen-member Board of Trustees, comprised of six active members, three retired members and four ex officio members, governs the System. The Board administers the programs and appoints key management personnel including the Executive Director, Chief of Staff, Chief Administrative Officer, and the Chief Investment Officer.

2. Plan Membership

The System is one of several public retirement systems in Louisiana. Each system has specific membership requirements established by legislation, with LASERS established for state officers, employees, and their beneficiaries. Other public employers report members who retained membership in LASERS upon transfer to other public systems or as provided by specific legislation. A summary of government employers and members participating in LASERS at June 30, 2021 and 2020, are as follows:

Type of Employer	2021		2020	
	Active Employers	Active Members	Active Employers	Active Members
State Agencies	197	38,210	202	39,148
Other Public Employers	144	362	143	339
Total	341	38,572	345	39,487

Type of Active Members	2021	2020
	Member Count	Member Count
Active After DROP	1,527	1,669
Alcohol and Tobacco Control	7	9
Appellate Law Clerks	93	101
Bridge Police	3	3
Corrections	1,218	1,363
Harbor Police	16	19
Hazardous Duty	2,995	3,182
Judges	322	299
Legislators	4	4
Peace Officers	32	35
Regular State Employees	32,231	32,673
Wildlife Agents	124	130
Total Active Members	38,572	39,487

At June 30, 2021 and 2020, membership consisted of:

	2021	2020
Active Members	38,572	39,487
Regular Retirees*	41,449	41,271
Disability Retirees*	2,000	2,091
Survivors	6,086	5,979
Vested & Reciprocal	3,724	3,691
Inactive Members Due Refunds	57,464	55,676
DROP Participants	1,311	1,367
Total Membership	150,606	149,562

*For actuarial purposes, "Disability Retirees" includes members who have reached normal retirement eligibility requirements and converted to Regular Retirement; and are therefore, counted by LASERS as "Regular Retirees."

3. Net Pension Liability of Employers

The net pension liability was measured as the portion of the present value of projected benefit payments to be provided through the pension plan to current active and inactive employees that is attributed to those employees' past periods of service, less the amount of the pension plan's fiduciary net position.

The components of the net pension liability of the System's employers determined in accordance with GASB 67 as of June 30, 2021 and 2020 were as follows:

	2021	2020
Total Pension Liability	\$ 20,220,320,534	\$ 19,691,378,799
Plan Fiduciary Net Position	14,716,344,767	11,420,710,895
Employers' Net Pension Liability	\$ 5,503,975,767	\$ 8,270,667,904
Plan Fiduciary Net Position as a Percentage of Total Pension Liability	72.8%	58.0%

Actuarial valuations involve estimates of the value of reported amounts and assumptions about the probability of events far into the future. Examples include assumptions about future employment, mortality, and future salary increases. Actuarially determined amounts regarding the net pension liability are subject to continual revision as actual results are compared to past expectations, and new estimates are made about the future. The last experience study was performed in 2019 and was based on the experience of the System for the period of July 1, 2013 through June 30, 2018. The required Schedules of Employers' Net Pension Liability located in Required Supplementary Information following the *Notes to the Financial Statements* presents multi-year trend information regarding whether the plan fiduciary net positions are increasing or decreasing over time relative to the total pension liability. The Total Pension Liability as of June 30, 2021 and 2020, is based on actuarial valuations for the same periods, updated using generally accepted actuarial procedures.

4. Actuarial Methods and Assumptions

A summary of the actuarial methods and assumptions used as of the June 30, 2021 and 2020, actuarial valuations are as follows:

Valuation Date	June 30, 2021 and 2020
Actuarial Cost Method	Entry Age Normal
Actuarial Assumptions:	
Expected Remaining Service Lives	2 years
Investment Rate of Return	7.40% and 7.55% per annum for 2021 and 2020, respectively.
Inflation Rate	2.30% per annum for 2021 and 2020.
Mortality	Non-disabled members - The RP-2014 Blue Collar (males/females) and White Collar (females) Healthy Annuitant Tables

Mortality (continued)

projected on a fully generational basis by Mortality Improvement Scale MP-2018.

Disabled members - Mortality rates based on the RP-2000 Disabled Retiree Mortality Table with no projection for mortality improvement.

Termination, Disability, and Retirement

Termination, disability, and retirement assumptions were projected based on a five-year (2014-2018) experience study of the System's members.

Salary Increases

Salary increases were projected based on a 2014-2018 experience study of the System's members. The salary increase ranges for 2021 and 2020 specific types of members were:

<u>Member Type</u>	<u>Lower Range</u>	<u>Upper Range</u>
Regular	3.0%	12.8%
Judges	2.6%	5.1%
Corrections	3.6%	13.8%
Hazardous Duty	3.6%	13.8%
Wildlife	3.6%	13.8%

Cost of Living Adjustments

The present value of future retirement benefits is based on benefits currently being paid by the System and includes previously granted cost of living increases. The projected benefit payments do not include provisions for potential future increases not yet authorized by the Board of Trustees as they were deemed not to be substantively automatic.

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adjusting for expected inflation and an adjustment for the effect of rebalancing/diversification. The expected rate of inflation was 2.3% for 2021 and 2020. The resulting expected long-term nominal rates of return are 7.61% for 2021 and 8.25% for 2020. Best estimates of geometric real rates of return for each major asset class included in the System's target asset allocation as of June 30, 2021 and 2020 are summarized in the following table:

Expected Long Term Real Rates of Return

Asset Class	2021	2020
Cash	-0.29%	-0.59%
Domestic Equity	4.09%	4.79%
International Equity	5.12%	5.83%
Domestic Fixed Income	0.49%	1.76%
International Fixed Income	3.94%	3.98%
Alternative Investments	6.93%	6.69%
Risk Parity	N/A	4.20%
Total Fund	5.81%	5.81%

The discount rate used to measure the total pension liability was 7.40% and 7.55% for June 30, 2021 and 2020, respectively. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current contribution rates and that contributions from participating employers will be made at the actuarially determined rates approved by PRSAC, taking into consideration the recommendation of the System's actuary. Based on those assumptions, the System's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

In accordance with GASB 67, regarding the disclosure of the sensitivity of the net pension liability to changes in the discount rate, the following presents the net pension liability of the participating employers calculated using the discount rate of 7.40% and 7.55% for June 30, 2021 and 2020, respectively, as well as what the employers' net pension liability would be if it were calculated using a discount rate that is one percentage point lower or one percentage point higher than the current rate.

Changes in Discount Rate

	1% Decrease	Current Discount Rate	1% Increase
2020 Discount Rate	6.55%	7.55%	8.55%
2020 Employer Net Pension Liability	\$ 10,163,364,043	\$ 8,270,667,904	\$ 6,664,506,558
2021 Discount Rate	6.40%	7.40%	8.40%
2021 Employer Net Pension Liability	\$ 7,457,471,407	\$ 5,503,975,767	\$ 3,841,797,070

5. Eligibility Requirements

All state employees, except those specifically excluded by statute, become members of the System's Defined Benefit Plan (DBP) as a condition of employment, unless they elect to continue as a contributing member in any other retirement system for which they remain eligible for membership. Certain elected officials and officials appointed by the Governor may, at their option, become members of LASERS. Also, qualifying unclassified state employees may have made an irrevocable election to participate in the Optional Retirement Plan (ORP) between July 12, 1999 and December 7, 2007, when the plan closed. All plans are considered one pension plan for financial reporting

purposes. All assets accumulated for the payment of benefits may legally be used to pay benefits to any plan members or beneficiaries.

6. Retirement

The age and years of creditable service required in order for a member to retire with full benefits are established by statute, and vary depending on the member's hire date, employer, and job classification. Our rank-and-file members hired prior to July 1, 2006, may either retire with full benefits at any age upon completing 30 years of creditable service, at age 55 upon completing 25 years of creditable service, and at age 60 upon completing ten years of creditable service depending on their plan. Those members hired between July 1, 2006 and June 30, 2015, may retire at age 60 upon completing five years of creditable service and those hired on or after July 1, 2015, may retire at age 62 upon completing five years of creditable service. The basic annual retirement benefit for members is equal to 2.5% to 3.5% of average compensation multiplied by the number of years of creditable service. Additionally, members may choose to retire with 20 years of service at any age, with an actuarially reduced benefit.

Average compensation is defined as the member's average annual earned compensation for the highest 36 consecutive months of employment for members employed prior to July 1, 2006. For members hired July 1, 2006 or later, average compensation is based on the member's average annual earned compensation for the highest 60 consecutive months of employment. The maximum annual retirement benefit cannot exceed the lesser of 100% of average compensation or a certain specified dollar amount of actuarially determined monetary limits, which vary depending upon the member's age at retirement. Judges, court officers, and certain elected officials receive an additional annual retirement benefit equal to 1.0% of average compensation multiplied by the number of years of creditable service in their respective capacity. As an alternative to the basic retirement benefits, a member may elect to receive their retirement throughout their life, with certain benefits being paid to their designated beneficiary after their death.

Act 992 of the 2010 Louisiana Regular Legislative Session changed the benefit structure for LASERS members hired on or after January 1, 2011. This resulted in three new plans: regular, hazardous duty, and judges. The new regular plan includes regular members and those members who were formerly eligible to participate in specialty plans, excluding hazardous duty and judges. Regular members and judges are eligible to retire at age 60 after five years of creditable service and may also retire at any age with a reduced benefit after 20 years of creditable service. Hazardous duty members are eligible to retire with 12 years of creditable service at age 55, 25 years of creditable service at any age, or with a reduced benefit after 20 years of creditable service. Average compensation will be based on the member's average annual earned compensation for the highest 60 consecutive months of employment for all three new plans. Members in the regular plan will receive a 2.5% accrual rate, hazardous duty plan a 3.33% accrual rate, and judges a 3.5% accrual rate. The extra 1.0% accrual rate for each year of service for court officers, the governor, lieutenant governor, legislators, House clerk, sergeants at arms, or Senate secretary, employed after January 1, 2011, was eliminated by Act 992. Specialty plan and regular members, hired prior to January 1, 2011, who are hazardous duty employees have the option to transition to the new hazardous duty plan.

Act 226 of the 2014 Louisiana Regular Legislative Session established new retirement eligibility for members of LASERS hired on or after July 1, 2015, excluding hazardous duty plan members. Regular members and judges under the new plan are eligible to retire at age 62 after five years of creditable

service and may also retire at any age with a reduced benefit after 20 years of creditable service. Average compensation will be based on the member's average annual earned compensation for the highest 60 consecutive months of employment. Members in the regular plan will receive a 2.5% accrual rate; and judges a 3.5% accrual rate, with the extra 1.0% accrual rate based on all years of service as a judge.

Members of the Harbor Police Retirement System who were members prior to July 1, 2014, may retire after 25 years of creditable service at any age, 12 years of creditable service at age 55, 20 years of creditable service at age 45, and 10 years of creditable service at age 60. Average compensation for the plan is the member's average annual earned compensation for the highest 36 consecutive months of employment with a 3.33% accrual rate.

A member leaving employment before attaining minimum retirement age, but after completing certain minimum service requirements, becomes eligible for a benefit provided the member lives to the minimum service retirement age, and does not withdraw their accumulated contributions. The minimum service requirement for benefits varies depending upon the member's employer and service classification.

7. Deferred Benefits

The State Legislature authorized LASERS to establish a Deferred Retirement Option Plan (DROP). When a member enters DROP, their status changes from active member to retiree even though they continue to work and draw their salary for a period of up to three years. The election is irrevocable once participation begins. During DROP participation, accumulated retirement benefits that would have been paid to each retiree are separately tracked. For members who entered DROP prior to January 1, 2004, interest at a rate of one-half percent less than the System's realized actuarial return on its portfolio (not to be less than zero) will be credited to the retiree after participation ends. At that time, the member must choose among available alternatives for the distribution of benefits that have accumulated in the DROP account. Members who enter DROP on or after January 1, 2004, are required to participate in LASERS Self-Directed Plan (SDP) which is administered by a third-party provider. The SDP allows DROP participants to choose from a menu of investment options for the allocation of their DROP balances. Participants may diversify their investments by choosing from an approved list of mutual funds with different holdings, management styles, and risk factors.

Members eligible to retire and who do not choose to participate in DROP may elect to receive at the time of retirement an initial benefit option (IBO) in an amount up to 36 months of benefits with an actuarial reduction of their future benefits. For members who selected the IBO option prior to January 1, 2004, such amount may be withdrawn or remain in the IBO account earning interest at a rate of one-half percent less than the System's realized return on its portfolio (not to be less than zero). Those members who select the IBO on or after January 1, 2004, are required to enter the SDP as described above.

For members who are in the Harbor Police Plan, the annual DROP Interest Rate is the three-year average (calculated as the compound average of 36 months) investment return of the plan assets for the period ending the June 30 immediately preceding that given date. The average rate so determined is to be reduced by a "contingency" adjustment of 0.5%, but not to below zero. DROP interest is forfeited if the member does not cease employment after DROP participation.

The DROP/IBO Reserve consists of the reserves for all members who select the DROP or IBO upon retirement. The balance in the DROP/IBO Reserve as of June 30, 2021 and 2020 was \$1,152,219,353 and \$1,098,800,777 respectively.

8. Disability Benefits

Generally, active members with ten or more years of credited service who become disabled may receive a maximum disability retirement benefit equivalent to the regular retirement formula without reduction by reason of age.

Upon reaching retirement age, the disability retiree may receive a regular retirement benefit by making application to the Board of Trustees.

For injuries sustained in the line of duty, hazardous duty personnel in the Hazardous Duty Services Plan will receive a disability benefit equal to 75% of final average compensation or 100% of final average compensation if the injury was the result of an intentional act of violence.

Members of the Harbor Police Retirement System who become disabled may receive a non-line of duty disability benefit after five years or more of credited service. Members age 55 or older may receive a disability benefit equivalent to the regular retirement benefit. Under age 55, the disability benefit is equal to 40% of final average compensation. Line of duty disability benefits are equal to 60% of final average compensation, regardless of years of credited service or 100% of final average compensation if the injury was the result of an intentional act of violence. If the disability benefit retiree is permanently confined to a wheelchair, or, is an amputee incapable of serving as a law enforcement officer, or is permanently and legally blind, there is no reduction to the benefit if the retiree becomes gainfully employed.

9. Survivor's Benefits

Certain eligible surviving dependents receive benefits based on the deceased member's compensation and their relationship to the deceased. The deceased regular member hired before January 1, 2011, who was in state service at the time of death must have a minimum of five years of service credit, at least two of which were earned immediately prior to death, or who had a minimum of twenty years of service credit regardless of when earned in order for a benefit to be paid to a minor or handicapped child. Benefits are payable to an unmarried child until age 18, or age 23, if the child remains a full-time student. The aforementioned minimum service credit requirement is ten years for a surviving spouse with no minor children, and benefits are to be paid for life to the spouse or qualified handicapped child.

The deceased regular member hired on or after January 1, 2011, must have a minimum of five years of service credit regardless of when earned in order for a benefit to be paid to a minor child. The aforementioned minimum service credit requirements for a surviving spouse are 10 years, 2 years being earned immediately prior to death, and in active state service at the time of death, or a minimum of 20 years of service credit regardless of when earned. A deceased member's spouse must have been married for at least one year before death.

A Hazardous Duty Services Plan member's surviving spouse and minor or handicapped or mentally incapacitated child or children are entitled to survivor benefits of 80% of the member's final average compensation if the member was killed in the line of duty. If the member dies in the line of duty as

a result of an intentional act of violence, survivor benefits may be increased to 100% of the member's final average compensation.

Non-line of duty survivor benefits of the Harbor Police Retirement System may be received after a minimum of five years of credited service. Survivor benefits paid to a surviving spouse without children are equal to 40% of final average compensation and cease upon remarriage. Surviving spouse with children under 18 benefits are equal to 60% of final average compensation, and cease upon remarriage, or children turning 18. No minimum service credit is required for line of duty survivor benefits which are equal to 60% of final average compensation to surviving spouse or 100% of final average compensation if the injury was the result of an intentional act of violence regardless of children. Line of duty survivor benefits cease upon remarriage, and then benefit is paid to children under 18.

10. Permanent Benefit Increases/Cost-of-Living Adjustments

As fully described in Title 11 of the Louisiana Revised Statutes, the System allows for the payment of permanent benefit increases, also known as cost-of-living adjustments (COLAs), that are funded through investment earnings when recommended by the Board of Trustees and approved by the State Legislature.

The Experience Account Reserve is used to fund permanent benefit increases for retirees. The benefit increase granted must be funded at 100% of the actuarial cost. The account accumulates 50% of the excess investment gain relative to the actuarial valuation rate of 7.4% after such excess return exceeds \$100,000,000 (indexed to positive changes in the actuarial value of assets beginning June 30, 2015).

If the System is at least 80% funded, the balance of the Experience Account maintains a reserve for two permanent benefit increases. However, if the System is less than 80% funded, the reserve is restricted to one permanent benefit increase, based on the current allowable percentage granted for the permanent benefit increase. Excess investment gains that would have otherwise gone to the Experience Account, if not for the restrictions, will be applied to the System's net pension liability. Beginning June 30, 2016, allocations to the Experience Account will be amortized over ten years. At June 30, 2021 and 2020, the balance of the Experience Account Reserve was \$85,173,827 and \$12,289,990, respectively.

11. Optional Retirement Plan

In 1999, an Optional Retirement Plan (ORP) was established as a defined contribution component of LASERS for certain unclassified employees who otherwise would have been eligible to become members of the defined benefit plan. The ORP provides portability of assets and full and immediate vesting of all contributions submitted on behalf of members. The ORP is administered by a third-party provider with oversight from LASERS Board of Trustees. Monthly employer and employee contributions are invested as directed by the member to provide the member with future retirement benefits. The amount of these benefits is entirely dependent upon the total contributions and investment returns accumulated during the member's working lifetime. ORP balances are held by the provider in each participant's name. These balances are included in LASERS total investments on the Statements of Fiduciary Net Position. The ORP was closed to new members on December 7, 2007. However, members in the ORP as of December 31, 2007, were granted the option by Act 718 of

the 2012 Louisiana Regular Legislative Session to regain membership in the defined benefit plan. At June 30, 2021, and 2020, membership consisted of:

	2021	2020
Number of Members	44	45
Employee Contributions	\$ 77,535	\$ 75,086
Employer Contributions	\$410,465	\$ 399,671

The ORP Reserve consists of reserves for all members who elected to participate in the ORP and is credited with contributions made by the employee and the normal employer matching contributions for services rendered. When a member terminates his service, or upon his death before qualifying for a benefit, the refund of his contributions is made from this reserve. Also, when a member retires, his benefits are paid from this reserve. The balance of the ORP Reserve as of June 30, 2021 and 2020 was \$6,065,893 and \$5,420,453, respectively.

B. Summary of Significant Accounting Policies

1. Basis of Accounting

LASERS financial statements are prepared in conformity with accounting principles generally accepted in the United States of America using the accrual basis of accounting. Revenues are recognized in the accounting period in which they are earned, and expenses are recognized in the period incurred. Investment purchases and sales are recorded as of the trade date. State General Fund appropriations are recognized in the period when they are appropriated. Employer and member contributions are recognized when due, pursuant to formal commitments, as well as statutory or contractual requirements. Administrative expenses are funded through contributions to the plan from members, and the State of Louisiana, and are subject to budgetary control of the Board of Trustees and the Joint Legislative Committee on the Budget. Benefits and refunds are recognized when due and payable in accordance with the terms of the System.

2. Securities Lending

The System records collateral received under its securities lending agreement where the System has the ability to spend, pledge, or sell the collateral without borrower default. Liabilities resulting from these transactions are also reported. The security lending cash collateral investments are reported at fair value. Security lending income and expenses are reported as investment income and expenses in the accompanying financial statements. The Statements of Fiduciary Net Position do not include detailed holdings of securities lending collateral by investment classification.

3. Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of additions to and deductions from fiduciary net position during the reporting period. Actuarial valuations are used to determine the net pension liability and the total OPEB liability. Actual results could differ from those estimates. The

retirement system utilizes various investment instruments, which by nature, are exposed to a variety of risk levels and risk types, such as interest rate, credit, and overall market volatility. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities will occur in the near term, and those changes could materially affect the amounts reported in the Statements of Fiduciary Net Position.

4. Method Used to Value Investments

As required by GASB 72, investments are reported at fair value. Fair value is described as an exit price. This statement requires a government to use valuation techniques that are appropriate under the circumstances and for which sufficient data are available to measure fair value. Valuation techniques maximize the use of relevant observable inputs and minimize the use of unobservable inputs. This statement establishes a hierarchy of inputs to valuation techniques used to measure fair value. That hierarchy has three levels. Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities. Level 2 inputs, other than quoted prices, are included within Level 1 and are observable for the asset or liability, whether directly or indirectly. Finally, Level 3 inputs are unobservable inputs, such as management's assumption of the default rate among underlying mortgages of a mortgage-backed security. This statement requires disclosures to be made about fair value measurements, the level of fair value hierarchy, and valuation techniques. These disclosures are organized by type of asset or liability. GASB 72 also requires additional disclosures regarding investments in certain entities that calculate net asset value as a practical expedient for fair value per share (or its equivalent). These disclosures are located in *Note D. Fair Value Disclosures*.

Short-term investments are reported at market value when published prices are available, or at cost, which approximates fair value. Securities traded on a national or international exchange are valued at the last reported sales price at the current exchange rate. All derivative financial instruments are reported at fair value in the Statements of Fiduciary Net Position with valuation changes recognized in income. Gains and losses are reported in the Statements of Changes in Fiduciary Net Position as net appreciation (depreciation) in fair value of investments during the period the instruments are held, and when the instruments are sold or expire. The nature and use of derivative instruments is discussed in *Note F. Cash and Investments (10)*. The fair value of investments that are organized as limited partnerships and have no readily ascertainable fair value (such as private markets, real estate, and tangible assets) has been recorded based on the investment's capital account balance which is reported at fair value, at the closest available reporting period, adjusted for subsequent contributions, distributions, and management fees. Because of the inherent uncertainties in estimating fair values, it is at least reasonably possible that the estimates will change in the near term. Investments that do not have an established market are reported at estimated fair value. Unrealized gains and losses are included as investment earnings in the Statements of Changes in Fiduciary Net Position. Synthetic Guaranteed Investment Contracts are carried at contract value as required by GASB 53.

In March 2020, the World Health Organization declared the outbreak of a novel coronavirus (COVID-19) as a global pandemic, which continues to spread throughout the United States. The COVID-19 pandemic has impacted the global economy and created significant volatility and disruption of financial markets, resulting in significant volatility in the values of investment securities. The extent of the long-term effect of the impact of the COVID-19 outbreak on the amounts reported in the *Statements of Fiduciary Net Position* cannot be reasonably estimated.

5. Accumulated Leave

The employees of the System accumulate unlimited amounts of annual and sick leave at varying rates as established by state regulations. Upon resignation or retirement, unused annual leave of up to 300 hours is paid to an employee at the employee's current rate of pay. Upon retirement, unused annual leave in excess of 300 hours and sick leave are credited at the current pay rate as earned service in computing retirement benefits. The liability for accrued annual leave of up to 300 hours is included in trade payables and other accrued liabilities in the Statements of Fiduciary Net Position.

6. Postemployment Benefits Other Than Pensions (OPEB)

For purposes of measuring the total OPEB liability, deferred outflows of resources and deferred inflows of resources related to OPEB and OPEB expense, information about the fiduciary net position of the State of Louisiana Postretirement Benefits Plan (Plan), and additions to/deductions from the Plan's fiduciary net position have been determined on the same basis as they are reported by the Plan. For this purpose, the Plan recognizes benefit payments when due and payable in accordance with the benefit terms. The Plan is funded on a pay-as-you-go basis and as such, there are no investments held by the Plan.

7. Property and Equipment

Property and equipment and computer software are reported at historical cost. Depreciation is computed using the straight-line method based upon useful lives of 40 years for building, three to 15 years for equipment and furniture, and seven years for computer software. The capitalization thresholds of property and equipment are:

- Computer Software Developed or Modified Internally (reported as Intangible Assets): \$1,000,000
- Movable Property and Equipment: \$5,000

LASERS is a 50% co-owner of the Louisiana Retirement Systems Building and related land with the Teachers' Retirement System of Louisiana. LASERS interest in the building, land, furniture, equipment, vehicles, and intangibles is reflected in the following schedules.

Changes in Property and Equipment

For Period Ending June 30, 2021

	June 30, 2020	Additions	Deletions/ Transfers	June 30, 2021
Asset Class (at Cost)				
Land	\$ 858,390	\$ -	\$ -	\$ 858,390
Building	7,376,654	55,546	-	7,432,200
Furniture, Equipment, and Vehicles	3,647,280	448,601	(1,317,955)	2,777,926
Intangibles	13,376,839	-	-	13,376,839
Total Property and Equipment	25,259,163	504,147	(1,317,955)	24,445,355
Accumulated Depreciation				
Building	(5,044,068)	(254,065)	-	(5,298,133)
Furniture, Equipment, and Vehicles	(2,399,563)	(157,279)	1,317,955	(1,238,887)
Intangibles	(11,598,026)	(355,763)	-	(11,953,789)
Total Accumulated Depreciation	(19,041,657)	(767,107)	1,317,955	(18,490,809)
Total Property and Equipment - Net	\$ 6,217,506	\$ (262,960)	\$ -	\$ 5,954,546

Changes in Property and Equipment

For Period Ending June 30, 2020

	June 30, 2019	Additions	Deletions/ Transfers	June 30, 2020
Asset Class (at Cost)				
Land	\$ 858,390	\$ -	\$ -	\$ 858,390
Building	6,799,514	577,140	-	7,376,654
Furniture, Equipment, and Vehicles	3,040,277	607,003	-	3,647,280
Intangibles	13,376,839	-	-	13,376,839
Total Property and Equipment	24,075,020	1,184,143	-	25,259,163
Accumulated Depreciation				
Building	(4,740,454)	(303,614)	-	(5,044,068)
Furniture, Equipment, and Vehicles	(2,238,845)	(160,718)	-	(2,399,563)
Intangibles	(11,242,264)	(355,762)	-	(11,598,026)
Total Accumulated Depreciation	(18,221,563)	(820,094)	-	(19,041,657)
Total Property and Equipment - Net	\$ 5,853,457	\$ 364,049	\$ -	\$ 6,217,506

8. Reclassifications

Certain prior year amounts have been reclassified to conform to current year presentation. These reclassifications had no effect on Net Position Restricted for Pensions, or the Net Change in Fiduciary Net Position.

9. New Accounting Pronouncements

Pronouncements effective for the 2021 financial statements:

In January 2017, the GASB issued Statement No. 84, *Fiduciary Activities* effective for fiscal years beginning after December 15, 2018. In May 2020, the GASB issued Statement No. 95 which changed the effective date for Statement No. 84 to fiscal years beginning after December 15, 2019. The objective of this Statement is to improve guidance regarding the identification of fiduciary activities for accounting and financial reporting purposes and how those activities should be reported. The implementation of this standard did not require any changes to LASERS financial reporting requirements.

Pronouncements issued; but not yet effective:

In June 2017, the GASB issued Statement No. 87, *Leases* effective for fiscal years beginning after December 15, 2019. In May 2020, the GASB issued Statement No. 95 which changed the effective date for Statement No. 87 to fiscal years beginning after June 15, 2021. The objective of this Statement is to better meet the information needs of financial statement users by improving accounting and financial reporting for leases by governments. The System is in the process of evaluating the impact of this pronouncement on its financial statements.

In May 2020, the GASB issued Statement No. 96, *Subscription-Based Information Technology Arrangements*, effective for fiscal years beginning after June 15, 2022. The objective of this Statement is to better meet the informational needs of financial statement users by establishing uniform accounting and financial reporting requirements and improving the comparability of financial statements among governments that have entered into subscription based information technology arrangements (SBITAs). The System is in the process of evaluating the impact of this pronouncement on its financial statements.

C. Contributions

1. Member Contributions

Member contribution rates for the System are established by La. R.S. 11:62. Member contributions are deducted from a member's salary and remitted to the System by participating employers. If a member leaves covered employment or dies before any benefits become payable on their behalf, the accumulated contributions may be refunded to the member or their designated beneficiary. Similarly, accumulated contributions in excess of any benefits paid to members or their survivors are refunded to the member's beneficiaries or their estates upon cessation of any survivor's benefits.

2. Employer Contributions

The employer contribution rate is established annually under La. R.S. 11:101-11:104 by the Public Retirement Systems' Actuarial Committee (PRSAC), taking into consideration the recommendation of the System's Actuary. Each plan pays a separate actuarially determined employer contribution rate. However, all assets of LASERS are used for the payment of benefits for all classes of members, regardless of their plan membership.

The member and employer rates in effect during the years ended June 30, 2021 and 2020, for the various plans are as follows:

Plan	Plan Status	2021 Employer Rate	2020 Employer Rate	Employee Rate
Appellate Law Clerks	Closed	40.10%	40.70%	7.50%
Appellate Law Clerks hired on or after 7/1/06	Closed	40.10%	40.70%	8.00%
Alcohol Tobacco Control	Closed	38.10%	33.90%	9.00%
Bridge Police	Closed	38.50%	39.80%	8.50%
Bridge Police hired on or after 7/1/06	Closed	38.50%	39.80%	8.50%
Corrections Primary	Closed	38.70%	36.90%	9.00%
Corrections Secondary	Closed	43.00%	40.70%	9.00%
Harbor Police	Closed	12.10%	7.70%	9.00%
Hazardous Duty	Open	45.00%	41.70%	9.50%
Judges hired before 1/1/11	Closed	42.50%	42.40%	11.50%
Judges hired after 12/31/10	Closed	43.60%	42.00%	13.00%
Judges hired on or after 7/1/15	Open	43.60%	42.00%	13.00%
Legislators	Closed	36.50%	40.40%	11.50%
Optional Retirement Plan (ORP) before 7/1/06	Closed	40.10%	40.70%	7.50%
Optional Retirement Plan (ORP) on or after 7/1/06	Closed	40.10%	40.70%	8.00%
Peace Officers	Closed	40.90%	39.40%	9.00%
Regular Employees hired before 7/1/06	Closed	40.10%	40.70%	7.50%
Regular Employees hired on or after 7/1/06	Closed	40.10%	40.70%	8.00%
Regular Employees hired on or after 1/1/11	Closed	40.10%	40.70%	8.00%
Regular Employees hired on or after 7/1/15	Open	40.10%	40.70%	8.00%
Special Legislative Employees	Closed	38.50%	42.40%	9.50%
Wildlife Agents	Closed	50.50%	49.70%	9.50%
Aggregate Rate		40.60%	40.80%	

D. Fair Value Disclosures

LASERS categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The plan has the following recurring fair value measurements as of June 30, 2021 and 2020, respectively:

		2021 Fair Value Measurements		
		Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
	6/30/2021			
Investments by Fair Value Level				
Debt Investments				
U.S. Government Obligations	\$ 49,616,240	\$ 49,616,240	\$ -	\$ -
U.S. Agency Obligations	98,108,213	-	98,108,213	-
Mortgages	33,293,071	-	33,293,071	-
Corporate Bonds	626,756,641	-	581,383,250	45,373,391
International Bonds	569,330,690	-	479,644,345	89,686,345
Short-term Investments	248,928,047	-	(389,606)	249,317,653
Total Debt Securities	\$ 1,626,032,902	\$ 49,616,240	\$ 1,192,039,273	\$ 384,377,389
Equity Securities				
Large Cap	\$ 2,480,478,409	\$ 2,480,478,409	\$ -	\$ -
Mid Cap	990,349,667	990,349,667	-	-
Small Cap	806,378,676	806,378,676	-	-
International Equities	2,570,299,713	2,555,858,840	11,958,206	2,482,667
Other	165,901,415	110,008,595	19,230,581	36,662,239
Total Equity Securities	\$ 7,013,407,880	\$ 6,943,074,187	\$ 31,188,787	\$ 39,144,906
Securities Lending Cash Collateral	\$ 967,315,754	\$ -	\$ 967,315,754	\$ -
Total Investments at Fair Value Level	\$ 9,606,756,536	\$ 6,992,690,427	\$ 2,190,543,814	\$ 423,522,295
Investments at Net Asset Value (NAV)				
Emerging Market Equity	\$ 932,572,651			
Emerging Market Debt	262,794,241			
Global Multi-Sector Funds	856,030,804			
Private Markets	2,722,575,699			
Absolute Return	575,704,726			
Total Investments at NAV	\$ 5,349,678,121			
Investment Derivatives				
Futures	\$ (17,816)	\$ (17,816)	\$ -	
Foreign Exchange Contracts	1,437,736	-	1,437,736	
Options	19,745	-	19,745	
Swaps	(238,140)	-	(238,140)	
Total Investment Derivatives	\$ 1,201,525	\$ (17,816)	\$ 1,219,341	
Total Investments at Fair Value	\$ 14,957,636,182			

	6/30/2020	2020 Fair Value Measurements		
		Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Investments by Fair Value Level				
Debt Investments				
U.S. Government Obligations	\$ 43,504,051	\$ 43,504,051	\$ -	\$ -
U.S. Agency Obligations	88,895,905	-	88,895,905	-
Mortgages	36,548,967	-	36,548,967	-
Corporate Bonds	592,399,475	-	540,963,725	51,435,750
International Bonds	460,316,913	-	414,057,738	46,259,175
Short-term Investments	533,654,538	-	1,929,191	531,725,347
Total Debt Securities	\$ 1,755,319,849	\$ 43,504,051	\$ 1,082,395,526	\$ 629,420,272
Equity Securities				
Large Cap	\$ 1,024,539,625	\$ 1,024,539,625	\$ -	\$ -
Mid Cap	647,519,252	647,519,252	-	-
Small Cap	480,284,543	480,284,543	-	-
International Equities	2,240,482,314	2,230,327,139	8,835,779	1,319,396
Other	95,116,481	51,667,734	34,503,057	8,945,690
Total Equity Securities	\$ 4,487,942,215	\$ 4,434,338,293	\$ 43,338,836	\$ 10,265,086
Securities Lending Cash Collateral	\$ 1,079,839,165	\$ -	\$ 1,079,839,165	\$ -
Total Investments at Fair Value Level	\$ 7,323,101,229	\$ 4,477,842,344	\$ 2,205,573,527	\$ 639,685,358
Investments at Net Asset Value (NAV)				
Emerging Market Equity	\$ 613,503,672			
Emerging Market Debt	167,211,293			
Global Multi-Sector Funds	640,193,379			
Private Markets	1,915,364,286			
Absolute Return	565,617,663			
Risk Parity	547,033,552			
Total Investments at NAV	\$ 4,448,923,845			
Investment Derivatives				
Futures	\$ (12,911)	\$ (12,911)	\$ -	
Foreign Exchange Contracts	275,485	-	275,485	
Swaps	(50,726)	-	(50,726)	
Total Investment Derivatives	\$ 211,848	\$ (12,911)	\$ 224,759	
Total Investments at Fair Value	\$ 11,772,236,922			

Securities classified in Level 1 of the fair value hierarchy are valued using prices quoted in active markets for those securities. Securities classified in Level 2 of the fair value hierarchy are valued using a matrix pricing technique. Matrix pricing is used to value securities based on the securities' relationship to benchmark quoted prices.

Derivative instruments classified in Level 2 of the fair value hierarchy are valued using a market approach that considers benchmark interest rates and foreign exchange rates. Investments classified in Level 3 of the fair value hierarchy are valued using unobservable inputs and are not directly corroborated with market data.

The unfunded commitments and redemption terms for investments measured at the net asset value (NAV) per share (or its equivalent) as of June 30, 2021, are presented in the following table.

	Fair Value 2021	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
Emerging Market Equity	\$ 932,572,651	\$ -	Monthly	7 - 30 days
Emerging Market Debt	262,794,241	-	Quarterly	90 days
			Monthly to Quarterly	
Global Multi-Sector	856,030,804	-	with one fund illiquid	30 - 60 days
Absolute Return	575,704,726	-	Monthly to Quarterly	5 - 95 days
Private Markets	2,722,575,699	1,901,726,320	N/A	N/A
Total Investments at NAV	<u>\$ 5,349,678,121</u>			

The unfunded commitments and redemption terms for investments measured at the net asset value (NAV) per share (or its equivalent) as of June 30, 2020 are presented in the following table.

	Fair Value 2020	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
Emerging Market Equity	\$ 613,503,672	\$ -	Monthly	7 - 30 days
Emerging Market Debt	167,211,293	-	Quarterly	90 days
Global Multi-Sector	640,193,379	-	Monthly to Quarterly	30 - 60 days
Risk Parity	547,033,552	-	Monthly	5 days
Absolute Return	565,617,663	-	Monthly to Quarterly	5 - 95 days
Private Markets	1,915,364,286	1,550,856,608	N/A	N/A
Total Investments at NAV	<u>\$ 4,448,923,845</u>			

1. Emerging Markets

Emerging Markets includes investments in three equity and one debt emerging market for the year ending June 30, 2021. There were two equity and one international debt emerging market commingled funds for the year ending June 30, 2020. These investments aim to benefit from the higher economic growth, increased independence, and positive demographic trends in emerging

countries. The fair value of the investments in these funds has been determined using the NAV per share (or equivalent) of the investments. Units are valued monthly to quarterly and redemption of units varies from seven to 90-day advanced notice. Any amount redeemed will be paid within five to 30 business days following the date as of which the withdrawal is to be made.

2. Global Multi-Sector

Global Multi-Sector commingled funds increased investments by one to four funds for fiscal year ending June 30, 2021. They are designed to be flexible and may move tactically in response to market conditions. It allows investments in securities across the fixed income universe which includes securities such as sovereign debt, corporate credit, structured products, currency, distressed debt, and leveraged loans. Redemption payments range from monthly to quarterly with 30 to 60-day notices. Two of the three funds have an initial one-year lock-up. One fund is illiquid with a term of five years with options for two one-year renewals. The fair value of the investments has been determined using NAV per share (or equivalent) of the investments.

3. Risk Parity

Risk Parity focuses on allocation of risk, usually defined as volatility, rather than allocation of capital. They are designed to balance risk among a variety of non-correlated assets through active management. This asset class was liquidated this year to fund other investments. Investments for fiscal year ending June 30, 2020, included two risk parity funds. The redemption notice period was five days with monthly redemptions available. Redemption payments could have been delayed in whole or in part to the extent such delay is deemed necessary by the manager to prevent a redemption from having an adverse effect. The fair value of the investments was determined using the NAV per share (or equivalent) of the investments.

4. Absolute Return

Absolute Return decreased by one investment to five absolute return funds for fiscal year ending June 30, 2021. Absolute Return Funds utilize a variety of strategies, asset classes, and securities to generate returns, depending on current market conditions. Funds tend to trade in a variety of strategies and exhibit low correlation to one another and to other absolute fund strategies. They are inherently diversified, with multiple sources of return. Managers have the ability to incubate and quickly execute new strategies. The fair value of the investments has been determined using the NAV per share (or equivalent) of the investments.

5. Private Markets

Private Markets is an asset class consisting of both equity and debt ownership in operating companies not publicly traded on a stock exchange. This type increased by two investments to 87 private market funds in fiscal year ending June 30, 2021. Private market funds employ a combination of strategies to earn superior risk-adjusted returns. The fair values of the investments in this type have been determined using the NAV per share (or equivalent) of the Plan's ownership interest in partners' capital. These investments are illiquid. Distributions from each fund will be received as the underlying investments of the funds are liquidated. It is expected that the underlying assets of the funds will be liquidated approximately seven to 15 years from the commencement of the fund.

E. Deposits and Investment Risk Disclosures

The information presented on the following pages includes disclosures of custodial, interest rate, credit, and foreign currency risks in accordance with GASB 40, 53, and 67 and is designed to inform financial statement users about investment risks that could affect the System's ability to meet its obligations. The tables presented classify investments by risk type, while the financial statements present investments by asset class; thus, the totals shown on the tables may not be comparable to the amounts shown for the individual asset classes on the financial statements.

1. Custodial Credit Risk

Custodial credit risk for deposits is the risk that, in the event of bank failure, the System's deposits may not be returned. The System does not have a formal deposit policy for custodial credit risk. All U.S. bank balances at year-end were insured or collateralized by the pledge of government securities held by the agents in LASERS name. LASERS had time deposits and certificates of deposits in the securities lending cash collateral pool that were exposed to custodial credit risk of \$277.8 million and \$136.0 million as of June 30, 2021 and 2020, respectively. LASERS had uninsured cash deposits in non-U.S. banks of \$34.6 million and \$26.4 million for the periods ended June 30, 2021 and 2020, respectively.

Custodial credit risk for investments is the risk that, in the event of the failure of the counterparty, the pension trust fund will not be able to recover the value of its investments, or collateral securities that are in the possession of an outside party. Investment securities are exposed to custodial credit risk if the securities are uninsured, are not registered in the name of the government, and are held by either: a) the counterparty or b) the counterparty's trust department or agent but not in the government's name. LASERS had no custodial credit risk for investments for the years ending June 30, 2021 and 2020.

2. Concentration of Credit Risk

Concentration of credit risk is the "risk of loss attributed to the magnitude of investments in a single issuer." The risk occurs "when investments are concentrated in any one issuer that represents 5% or more of plan net assets." Investments issued or explicitly guaranteed by the U.S. Government and investments in mutual funds, external investment pools, and other pooled investments are excluded from this requirement. The System has no investments of any single organization (other than those issued or guaranteed by the U.S. Government) that represent 5% or more of the System's net plan assets, nor does the System hold more than 5% of any corporation's stock.

3. Credit Risk

Credit risk is the risk that a borrower will be unable to meet its obligation. According to LASERS investment policy, the overall average quality of each core fixed income portfolio shall be rated A- or higher by Standard and Poor's. Non-rated issues or issues below investment grade (below BBB-) may be purchased up to a maximum of 15% of each core fixed income portfolio. These quality restrictions will not apply to a manager that is hired by LASERS to manage dedicated high-yield fixed income portfolios. The average duration shall not differ from the passive benchmark's duration by more than two years.

In preparing this report, credit risk associated with all fixed income holdings including collateral for repurchase agreements and securities lending collateral has been included. The System's exposure to credit risk as of June 30, 2021 and 2020, is as follows:

Rating	Fair Value 2021	Percent 2021	Fair Value 2020	Percent 2020
AAA	\$ 7,062,143	0.2%	\$ 171,648,760	4.7%
A-1+	105,421,459	2.8%	124,158,861	3.4%
A-1	262,250,977	7.1%	283,869,858	7.8%
AA+	137,665,051	3.7%	130,392,682	3.6%
AA	6,339,893	0.2%	2,564,402	0.1%
AA-	169,914,599	4.6%	96,607,185	2.7%
A+	155,826,495	4.2%	144,539,930	4.0%
A	85,019,915	2.3%	78,213,130	2.1%
A-	31,119,253	0.8%	34,124,971	0.9%
BBB+	58,860,525	1.6%	65,696,221	1.8%
BBB	64,413,656	1.7%	69,755,848	1.9%
BBB-	48,194,028	1.3%	55,990,156	1.5%
BB+	50,267,776	1.4%	40,540,780	1.1%
BB	100,573,559	2.7%	93,398,442	2.6%
BB-	114,317,747	3.1%	99,147,349	2.7%
B+	79,490,176	2.1%	49,438,089	1.4%
B	77,959,822	2.1%	55,987,176	1.5%
B-	47,343,333	1.3%	37,378,984	1.0%
CCC+	38,090,358	1.0%	35,093,261	1.0%
CCC	21,714,863	0.6%	13,243,263	0.4%
CCC-	4,892,062	0.1%	3,543,520	0.1%
CC	5,266,345	0.1%	13,800,615	0.4%
C	166,500	0.0%	663,770	0.0%
D	8,253,156	0.2%	10,420,972	0.3%
Non-rated	2,032,957,594	54.7%	1,932,536,664	53.0%
Total Fixed Income	\$ 3,713,381,285	100.0%	\$ 3,642,754,889	100.0%

4. Interest Rate Risk

Interest rate risk is the risk from changes in interest rates adversely affecting the fair value of an investment. LASERS has no formal interest rate risk policy. LASERS, as expressed in its investment policy, expects its fixed income managers to approximate the portfolio's duration (a measure of a debt investment's exposure to fair value changes arising from interest rates) to within two years of its respective benchmark. Investments with fair values that are highly sensitive to interest rate changes may contain terms that increase the sensitivity of their fair values.

As of June 30, 2021 and 2020, the System had the following domestic and foreign debt investments and maturities:

Type	Fair Value 2021	Investment Maturities (in Years)			
		Less Than 1	1 - 5	5 - 10	Greater Than 10
U.S. Government Obligations	\$ 49,616,240	\$ 28,935,424	\$ 10,034,715	\$ 3,338,004	\$ 7,308,097
U.S. Agency Obligations	98,108,213	347	103,388	3,005,635	94,998,843
Mortgages	33,293,071	-	2,003,020	-	31,290,051
Corporate Bonds	626,756,641	42,744,596	181,593,799	261,448,725	140,969,521
International Bonds	1,687,925,583	1,170,841,471	144,331,883	238,954,313	133,797,916
Short-term Investments	250,365,783	(389,606)	1,437,736	-	249,317,653
Securities Lending Collateral					
Corporate Bonds	13,895,689	10,861,240	3,034,449	-	-
International Bonds	369,702,093	369,139,724	562,369	-	-
Short-term Investments	20,222,865	20,222,865	-	-	-
International Short-term Investments	563,495,107	563,495,107	-	-	-
Total Debt Investments	\$3,713,381,285	\$2,205,851,168	\$ 343,101,359	\$ 506,746,677	\$ 657,682,081

Type	Fair Value 2020	Investment Maturities (in Years)			
		Less Than 1	1 - 5	5 - 10	Greater Than 10
U.S. Government Obligations	\$ 43,504,051	\$ 10,119,926	\$ 5,019,163	\$ 13,835,738	\$ 14,529,224
U.S. Agency Obligations	88,895,905	-	513,611	6,475,587	81,906,707
Mortgages	36,548,967	-	-	-	36,548,967
Corporate Bonds	592,380,303	39,965,218	171,067,848	230,122,020	151,225,217
International Bonds	1,267,656,475	839,141,779	104,962,088	182,210,910	141,341,698
Short-term Investments	533,930,023	533,930,023	-	-	-
Securities Lending Collateral					
Corporate Bonds	22,467,884	22,467,884	-	-	-
International Bonds	290,454,139	289,807,711	-	646,428	-
Short-term Investments	221,142,552	221,142,552	-	-	-
International Short-term Investments	545,774,590	545,774,590	-	-	-
Total Debt Investments	\$3,642,754,889	\$2,502,349,683	\$ 281,562,710	\$ 433,290,683	\$ 425,551,813

5. Foreign Currency Risk

Foreign currency risk is the potential risk for loss due to changes in exchange rates. Cash held by the manager may be in U.S. dollar or foreign currencies of the manager's choice. Managers may purchase or sell currency on a spot basis to accommodate securities settlements. Managers may enter into forward exchange contracts on currency provided that use of such contracts is designed to dampen portfolio volatility or to facilitate the settlement of securities transactions. Currency contracts may be utilized to either hedge the portfolio's currency risk exposure or in the settlement of securities transactions.

Foreign investments denominated in U.S. currency such as American Depositary Receipts (ADRs) and Yankee bonds do not carry foreign currency risk; therefore, they are not included in the tables below. LASERS portfolio contained several commingled funds subject to foreign currency risk with aggregate fair values of \$2.1 billion and \$1.4 billion for the years ended June 30, 2021 and 2020, respectively. LASERS Investment Guidelines, some of which are noted in *Note F. Cash and Investments*, are designed to mitigate risk.

The fair value of LASERS securities including derivative instruments held in a foreign currency at June 30, 2021 and 2020, is as follows:

Currency	Global Bonds	Global Stock	Cash/Other	Private Markets	Currency Contracts	Fair Value 2021
Argentinian Peso	\$ 222,710	\$ -	\$ 14	\$ -	\$ (241,947)	\$ (19,223)
Australian Dollar	-	135,689,443	2,155,633	-	(2,967,476)	134,877,600
Brazilian Real	17,917,505	16,052,296	295,674	-	754,943	35,020,418
British Pound Sterling	5,326,980	340,615,940	3,120,679	-	(13,408,942)	335,654,657
Canadian Dollar	-	171,772,341	2,624,602	-	(1,436,758)	172,960,185
Chilean Peso	3,313,352	910,365	22,406	-	1,484,857	5,730,980
Chinese Yuan	24,739,542	-	-	-	(3,277,164)	21,462,378
Colombian Peso	13,812,187	858,504	221,139	-	(2,598,270)	12,293,560
Czech Koruna	7,428,297	-	8,582	-	3,503,423	10,940,302
Danish Krone	-	65,532,001	394,669	-	552,743	66,479,413
Egyptian Pounds	2,115,104	-	-	-	-	2,115,104
Euro	28,300,009	578,648,329	192,065,274	57,799,655	(36,761,078)	820,052,189
Hong Kong Dollar	-	214,088,337	2,390,859	-	-	216,479,196
Hungarian Forint	-	5,566,999	92,966	-	4,223,952	9,883,917
Indian Rupee	-	30,924,253	36,722	-	-	30,960,975
Indonesian Rupiah	24,821,160	7,665,590	43,467	-	-	32,530,217
Israeli Shekel	-	4,174,830	591,168	-	-	4,765,998
Japanese Yen	-	500,041,262	6,054,622	-	1,667,277	507,763,161
Kazakhstan Tenge	313,103	-	-	-	-	313,103
Malaysian Ringgit	9,134,513	4,312,114	9,528	-	-	13,456,155
Mexican Peso	26,857,078	8,206,873	164,192	-	(1,183,469)	34,044,674
New Taiwan Dollar	-	49,714,928	112,030	-	-	49,826,958
New Zealand Dollar	-	3,950,297	215,105	-	354,965	4,520,367
Norwegian Krone	-	26,362,096	4,363,857	-	1,265,267	31,991,220
Peruvian Sol	3,610,113	-	-	-	-	3,610,113
Philippines Peso	-	3,437,826	5,631	-	-	3,443,457
Polish Zloty	15,113,571	5,129,485	(240)	-	5,232,119	25,474,935
Romanian Leu	6,483,294	-	-	-	(4,337,442)	2,145,852
Russian Ruble	19,193,891	-	-	-	1,425,004	20,618,895
Serbia Dinar	1,072,306	-	-	-	-	1,072,306
Singapore Dollar	-	43,828,318	915,435	-	70,581	44,814,334
South African Rand	19,563,992	17,397,185	645,248	-	(3,455,794)	34,150,631
South Korean Won	-	49,462,208	89,695	-	265,662	49,817,565
Swedish Krona	-	91,382,639	853,768	-	355,934	92,592,341
Swiss Franc	-	133,507,294	1,041,610	-	(689,334)	133,859,570
Thailand Baht	7,398,834	5,292,032	106,278	-	5,323,040	18,120,184
Turkish Lira	3,727,391	5,495,517	46,523	-	303,844	9,573,275
UAE Dirham	-	1,275,743	-	-	-	1,275,743
Uruguayan Peso	3,870,915	-	-	-	-	3,870,915
Total	\$ 244,335,847	\$ 2,521,295,045	\$ 218,687,136	\$ 57,799,655	\$ (43,574,063)	\$ 2,998,543,620

Currency	Global Bonds	Global Stock	Cash/Other	Private Markets	Currency Contracts	Fair Value 2020
Argentinian Peso	\$ 218,545	\$ -	\$ 19	\$ -	\$ -	\$ 218,564
Australian Dollar	-	111,165,444	643,582	-	506,627	112,315,653
Brazilian Real	16,400,596	23,680,683	121,633	-	54,021	40,256,933
British Pound Sterling	1,121,750	266,991,532	2,302,474	-	(4,196,843)	266,218,913
Canadian Dollar	-	154,656,408	1,040,870	-	(569,958)	155,127,320
Chilean Peso	3,973,844	3,086,880	123,256	-	852,292	8,036,272
Chinese Yuan	10,619,173	-	-	-	(3,749,165)	6,870,008
Colombian Peso	14,841,042	2,362,246	109,474	-	(2,943,433)	14,369,329
Czech Koruna	7,008,926	1,667,779	7,192	-	5,583,534	14,267,431
Danish Krone	-	27,213,180	327,778	-	55,003	27,595,961
Euro	67,093,455	505,250,560	333,658,795	53,235,559	(28,279,302)	930,959,067
Hong Kong Dollar	-	202,911,703	3,676,393	-	351,920	206,940,016
Hungarian Forint	-	5,688,687	85,908	-	3,497,967	9,272,562
Indian Rupee	-	36,729,373	-	-	-	36,729,373
Indonesian Rupiah	24,854,817	8,515,730	69,644	-	(5,738,303)	27,701,888
Israeli Shekel	-	3,659,721	539,852	-	-	4,199,573
Japanese Yen	-	397,593,902	5,456,002	-	(274,265)	402,775,639
Kazakhstan Tenge	296,108	-	-	-	-	296,108
Malaysian Ringgit	8,525,491	5,278,191	68,720	-	-	13,872,402
Mexican Peso	26,184,047	10,011,921	90,853	-	-	36,286,821
New Taiwan Dollar	-	53,437,879	895,438	-	-	54,333,317
New Zealand Dollar	-	1,963,718	349,593	-	-	2,313,311
Norwegian Krone	-	19,238,711	986,034	-	-	20,224,745
Peruvian Sol	7,881,178	-	-	-	(1,114,743)	6,766,435
Philippines Peso	-	2,595,093	-	-	-	2,595,093
Polish Zloty	17,299,478	8,276,240	(71)	-	2,940,326	28,515,973
Qatari Riyal	-	-	148,294	-	-	148,294
Romanian Leu	2,970,111	-	-	-	-	2,970,111
Russian Ruble	21,983,052	-	-	-	(3,092,215)	18,890,837
Saudi Arabian Riyal	-	-	77,313	-	-	77,313
Singapore Dollar	-	39,202,365	781,904	-	(190,266)	39,794,003
South African Rand	18,761,208	18,181,696	908,608	-	(1,376,314)	36,475,198
South Korean Won	-	66,357,419	21,346	-	-	66,378,765
Swedish Krona	-	60,243,561	505,659	-	(269,625)	60,479,595
Swiss Franc	-	133,826,316	448,814	-	(92,871)	134,182,259
Thailand Baht	5,767,987	6,610,187	94,536	-	8,513,706	20,986,416
Turkish Lira	4,013,028	7,926,324	874,200	-	-	12,813,552
UAE Dirham	-	3,867,903	-	-	-	3,867,903
Uruguayan Peso	877,806	-	-	-	-	877,806
Total	\$ 260,691,642	\$ 2,188,191,352	\$ 354,414,113	\$ 53,235,559	\$ (29,531,907)	\$ 2,827,000,759

F. Cash and Investments

1. Cash and Cash Equivalents

Cash and cash equivalents include cash deposited in banks. Cash is insured by the Federal Deposit Insurance Corporation up to \$250,000, and cash equivalents are collateralized by the pledge of government securities held by the agents in LASERS name.

2. Short-Term Investments

Short-term reserves may be held in U.S. dollar or global denominated investment vehicles available through the System's custodian. These funds may be invested in direct U.S. Government obligations such as U.S. Treasury Bills or repurchase agreements, which are fully collateralized by issues of the U.S. Treasury or any agency of the United States Government. Excess cash may also be invested in the negotiable certificates of deposit, global time deposits, global currency, or other short-term investment vehicles designated by the Board.

3. Investments

Louisiana state law (La. R.S. 11:261-269) provides for the fiduciary and investment responsibilities of LASERS. La. R.S. 11:263 states that the prudent man rule shall apply to all investments of LASERS. This law specifically requires management of LASERS to exercise the judgment and care under the circumstances prevailing that a prudent institutional investor would use in the conduct of an enterprise of a like character with like aims.

A) Investment Policy

The System's policy in regard to the allocation of invested assets is established and may be amended by the LASERS Board. Plan assets are managed on a total return basis with a long-term objective of achieving and maintaining a fully funded status for the benefits provided through the pension plan.

The following were LASERS Board adopted asset allocation policies in effect on June 30, 2021 and 2020:

Target Asset Allocation		
Asset Class	2021	2020
Cash	1%	0%
Domestic Equity	31%	23%
International Equity	23%	32%
Domestic Fixed Income	3%	6%
International Fixed Income	18%	10%
Alternative Investments	24%	29%
Totals	100%	100%

B) Rate of Return

For the years ended June 30, 2021 and 2020, the annual money-weighted rates of return on pension plan investments, net of pension plan investment expense, were 33.4% and -3.6%, respectively. The money-weighted return expresses investment performance, net of investment expenses, adjusted for the changing amounts actually invested.

4. Domestic Equity

Domestic equity purchases are limited to publicly traded common stocks. Exceptions shall be approved by the LASERS Board in advance. No single holding shall account for more than 6% of the allowable equity portion of the portfolio at market value, or 150% of a stock's weighting in the style benchmark against which the manager is measured; whichever is larger.

LASERS domestic equity portfolios are expected to be fully invested. No single holding in LASERS portfolio shall account for more than 5% of the outstanding common stock of any one corporation. No more than 10% of a manager's domestic equity portfolio may consist of cash or cash equivalents. Additionally, no single holding across all actively managed portfolios of an investment management firm shall account for more than 15% of the outstanding common stock of any one corporation.

The purchase of stocks or convertibles in foreign companies, which are publicly traded securities, may be held by each domestic stock manager in proportions up to 10% of the portfolio at fair value. Convertible bonds, convertible preferred stocks, warrants and rights may be purchased as equity substitutes as long as they meet the equity guidelines listed above.

5. International Equity

Short-term reserves may be held in U.S. dollar-denominated, local currency securities, or investment vehicles available through the System's custodian. Managers may purchase or sell currency on a spot basis to accommodate security settlements. Managers may enter into forward exchange contracts on currency provided that use of such contracts is designed to dampen portfolio volatility or to facilitate the settlement of security transactions.

LASERS international equity portfolios are expected to be fully invested. No more than 10% of a manager's international equity portfolio may consist of cash or cash equivalents. Equity securities should be issued by non-U.S. issuers, although the manager has latitude to hold U.S. securities provided that such investment is consistent with attainment of the portfolio's investment objectives and does not exceed 10% of the portfolio's market value. American Depositary Receipts (ADRs) do not count toward this 10% limitation.

The number of issues held and their geographic or industry distribution shall be left to the investment manager, provided that equity holdings in any one company (including common stock and convertible securities) do not exceed 6% of the fair value of the manager's portion of LASERS portfolio. Additionally, bonds of the companies in question would be included in LASERS exposure calculation if held in the manager's portfolio.

Managers with established international equity mandates may invest up to 10% of their portfolio(s) in the emerging markets, as defined by the MSCI EM Index. Managers with an emerging markets equity mandate are expected to invest in the emerging (non-established) markets, subject to the guidelines listed above.

6. Domestic Core Fixed Income

Domestic core fixed income investments may include U.S. Government and Federal Agency obligations, corporate bonds, debentures, commercial paper, certificates of deposit, Yankee bonds, mortgage-backed securities, and senior secured debt and other instruments deemed prudent by the investment managers. No more than 6% of the fair value of LASERS domestic core fixed income assets may be invested in the debt securities of any one issuer. No limitations on issues and issuers shall apply to obligations of U.S. Government and Federal Agencies.

The overall average quality of each fixed income portfolio shall be rated A- or higher. Issues not rated may be purchased provided that in the judgment of the manager, they are of a quality sufficient to maintain the average overall portfolio quality of A- or higher. Non-rated issues or issues below investment grade (below BBB-) may be purchased up to a maximum of 15% of the portfolio.

The diversification of securities by maturity, quality, sector, coupon, and geography is the responsibility of the manager. Active bond management is encouraged, as deemed appropriate by the investment managers. The average duration (interest rate sensitivity) of an actively managed portfolio shall not differ from the passive benchmark's duration by more than two years.

Investments in mortgage-backed securities shall have the characteristics of fixed income securities and be responsive to changes in domestic interest rate changes, as well as other factors that affect the credit markets and mortgage investments. The investment managers are responsible for making an independent analysis of the credit worthiness of securities and their suitability as investments for the Plan, and shall adhere to the specific investment, security, diversification limits, and administrative guidelines established in the investment management agreement(s).

High-yield fixed income managers may invest up to 20% of their portfolios in non-U.S. fixed income securities. They shall perform careful credit analysis to mitigate losses from defaults. Investments should be diversified across sector, industry, sub-industry, and market to mitigate losses. No more than 6% of fair value of the System's high yield assets may be invested in the debt securities of any one issuer.

7. Global Fixed Income

The global bond portfolio may hold no more than 30% of its assets, at fair value, in the debt securities of any single foreign government or non-U.S. government entity. No single non-government debt security shall constitute more than 6% of the global bond portfolio, at fair value. Securities issued by AAA rated supranational organizations (such as the World Bank) shall be considered to be government equivalents.

Short-term reserves may be held in U.S. dollar-denominated or local currency securities or investment vehicles available through the LASERS custodian.

Managers may enter into forward exchange contracts on currency provided that use of such contracts is designed to dampen portfolio volatility rather than leverage portfolio risk exposure. Currency contracts may be utilized to either hedge the portfolio's currency risk exposure or in the settlement of securities transactions. Managers may purchase or sell currency on a spot basis to accommodate securities settlements. Decisions as to the number of issues held and their geographic distribution shall be the responsibility of the investment manager.

The overall average quality of each global fixed income portfolio shall be A- or higher. Non-rated issues may be purchased, provided that in the judgment of the manager, they are of a quality sufficient to maintain the average overall portfolio quality of A- or higher. Issues below investment grade (below BBB-) and/or mortgage backed securities may be purchased up to a maximum of 15% of the portfolio. The average duration (interest rate sensitivity) of a global fixed income portfolio shall not differ from the passive benchmark by more than two years.

8. Emerging Market Debt

The emerging markets debt portfolio may hold no more than 1.75 times the passive benchmark weight, at fair value, in the debt securities of any single sovereign entity. The portfolio may hold up to 15% in securities not issued by benchmark countries. The portfolio may hold up to a combined allocation of 20% in non-benchmark inflation-linked bonds and corporate debt securities. Investments should be diversified across sovereign issuers and markets to mitigate losses from defaults.

Managers may enter into forward exchange contracts on currency provided that use of such contracts is designed to dampen portfolio volatility rather than leverage portfolio risk exposure. Currency contracts may be utilized to either hedge the portfolio's currency risk exposure or in the settlement of securities transactions. Managers may purchase or sell currency on a spot basis to accommodate securities settlements. Decisions as to the number of issues held and their geographic distribution shall be the responsibility of the investment manager.

The overall average quality of each portfolio shall be BBB- or higher. Non-rated issues may be purchased provided that in the judgment of the manager, they are of a quality sufficient to maintain the average overall portfolio quality of BBB- or higher. The modified duration (interest rate sensitivity) of an emerging markets debt (local currency) portfolio shall not differ from the passive benchmark by more than three years.

9. Global Multi-Sector Fixed Income

The global multi-sector portfolio may hold no more than 6% of its assets, in fair value in the securities of any one issuer, excluding securities of the U.S. Government and its agencies. Managers may invest up to 10% of the portfolio fair value in equity securities. These limits may be exceeded with consent from LASERS staff and Consultant.

10. Derivatives

The System invested in collateralized mortgage obligations (forms of mortgage-backed securities), foreign exchange currency contracts, futures, options, warrants, rights, swaps, and a Synthetic Guaranteed Investment Contract (SGIC). The System reviews fair value of all securities on a monthly basis. Derivative securities may be held in part to maximize yields and in part to hedge against a rise in interest rates. The fair value of rights and warrants are determined based upon quoted market prices. For the years ending June 30, 2021, and June 30, 2020, the derivative instruments held by the System were considered investments and not hedges for accounting purposes. The term hedging, as it is used elsewhere in the notes to these financial statements, denotes an economic activity and not an accounting method. Investments in limited partnerships and commingled funds may include derivatives. Interest rate risk, credit rate risk, and foreign currency risk associated with derivatives are included on their respective tables in *Note E. Deposits and Investment Risk Disclosures*.

- a. **Collateralized mortgage obligations (CMOs)** are bonds that are collateralized by whole loan mortgages, mortgage pass-through securities, or stripped mortgage-backed securities. Income is derived from payments and prepayments of principal and interest generated from collateral mortgages. Cash flows are distributed to different investment classes or tranches in accordance with that CMOs established payment order. Some CMO tranches have more stable cash flows relative to changes in interest rates than others that can be significantly sensitive to interest rate fluctuations. In a declining interest rate environment, some CMOs may be subject to a reduction in interest payments as a result of prepayments of mortgages which make up the collateral pool. Reductions in interest payments cause a decline in cash flows and, thus, a decline in fair value of the CMO security. Rising interest rates may cause an increase in interest payments, thus an increase in the value of the security.
- b. **Synthetic Guaranteed Investment Contract (SGIC)** is an investment for tax-qualified, defined contribution pension plans consisting of two parts: an asset owned directly by the plan trust and a wrap contract providing book value protection for participant withdrawals prior to maturity. LASERS maintains a fully benefit-responsive synthetic guaranteed investment contract option for members of the Optional Retirement Plan and the Self-Directed Plan. The investment objective of the SGIC is to protect members from loss of their original investment and to provide a competitive interest rate. SGICs are carried at contract value. The contract value of the SGIC contract is cost plus accrued interest. The contract value of the SGIC contract was \$533.6 and \$525.8 million for the fiscal years ended June 30, 2021 and 2020, respectively. The fair value of the underlying investments was \$551.83 and \$552.9 million for the fiscal years ended June 30, 2021 and 2020, respectively. The counterparty rating for the wrap contract was AA.
- c. **Futures** contracts are standardized, exchange-traded contracts to purchase or sell a specific financial instrument at a predetermined price. Gains and losses on futures contracts are settled daily based on a notional (underlying) principal value and do not involve an actual transfer of the specific instrument. The exchange assumes the risk that the counterparty will not pay and generally requires margin payments to minimize such risk. Futures are used primarily as a tool to increase or decrease market exposure to various asset classes.
- d. **Currency forwards** are a contractual agreement between two parties to pay or receive specific amounts of foreign currency at a future date in exchange for another currency at an agreed upon exchange rate. Forwards are usually transacted in the over-the-counter market. These transactions are entered into in order to hedge risks from exposure to foreign currency rate fluctuation. They are entered into with the foreign exchange department of a bank located in a major money market. Recognition of realized gain or loss depends on whether the currency exchange rate has moved favorably or unfavorably to the contract holder upon termination of the contract. Prior to termination of the contract, the System records the unrealized translation gain or loss. Forward commitments are not standardized and carry counterparty risk. Counterparty risk ratings from forwards for the year ended June 30, 2021, ranged from A-2 to A-1+. Counterparty risk ratings from forwards for the year ended June 30, 2020, ranged from B to A-1+ and included one nonrated.
- e. **Option contracts** provide the option purchaser with the right, but not the obligation, to buy or sell the underlying security at a set price during a period or at a specified date. The option writer is obligated to buy or sell the underlying security if the option purchaser chooses to exercise the option.

- f. **Short sales** are the sale of a security or commodity futures contract that is not owned by the seller. It is a technique used to take advantage of an anticipated decline in the price or to protect a profit in a long position.
- g. **Swaps** are derivative instruments in which two parties agree to exchange one stream of cash flows against another stream or a guarantee. These streams are called the legs of the swap and usually at least one leg has a rate that is variable. The variable leg can depend on a reference rate, the total return of an asset, or an economic statistic. Cash flows are calculated based on the notional amount, which are usually not exchanged between counterparties. Counterparty risk ratings for the years ended June 30, 2021 and 2020 ranged from A-3 to A-1+.

The following tables represent the fair value of all open currency, futures, swaps and options contracts at June 30, 2021, and 2020:

Change in Fair Value 2021			Fair Value at June 30, 2021		
Derivative Type	Classification	Gain/(Loss)	Classification	Amount	Notional
Foreign Exchange					
Contracts	Net Appreciation	\$ 1,162,251	Short-term Invest.	\$ 1,437,736	\$ 46,524,540
Futures Int'l Equity	Net Depreciation	(33,787)	International Equity	(13,142)	1,341,775
Futures Fixed					
Income	Net Appreciation	20,609	Domestic Bonds	-	-
Futures Int'l Fixed					
Income	Net Appreciation	8,272	International Bonds	(4,674)	(960,681)
Options Int'l Equity	Net Appreciation	19,745	International Equity	19,745	15,625,000
Swaps Domestic	Net Appreciation	7,083	Domestic Equity	7,083	391,000
Swaps Domestic	Net Depreciation	(1,437)	Domestic Bonds	-	-
Swaps International	Net Depreciation	(193,060)	International Bonds	(245,223)	47,366,466

Change in Fair Value 2020			Fair Value at June 30, 2020		
Derivative Type	Classification	Gain/(Loss)	Classification	Amount	Notional
Foreign Exchange					
Contracts	Net Appreciation	\$ 638,585	Short-term Invest.	\$ 275,485	\$ 29,834,184
Futures Equity	Net Appreciation	9,875	Domestic Equity	-	98,881
Futures Int'l Equity	Net Appreciation	1,923	International Equity	20,645	873,012
Futures Fixed					
Income	Net Appreciation	45,234	Domestic Bonds	(20,609)	(2,206,141)
Futures Int'l Fixed					
Income	Net Depreciation	(12,947)	International Bonds	(12,947)	(2,369,010)
Swaps Domestic	Net Depreciation	(249,362)	Domestic Bonds	1,437	20,639,254
Swaps International	Net Depreciation	(58,320)	International Bonds	(52,163)	7,085,735

11. Alternative Investments

Investments in alternatives include, but are not limited to, private markets, absolute return (hedge funds), and real assets. Investment strategies may include buyouts or corporate restructuring, venture capital, secondary investments, distressed securities, mezzanine instruments, energy and natural resources, and any other special situation.

LASERS endeavors to systematically commit additional funds to this asset class over time as it becomes under-represented relative to the LASERS target asset allocation. LASERS attempts to commit up to 200% of its target weighting to private markets investments to help ensure that the funded portion of the investments approximates the target allocation.

The Board of LASERS recognizes that alternative assets are potentially more risky than other investments of the System. As such, extra care is taken in evaluating and fully understanding all aspects on an alternative investment opportunity.

No more than 25% of the alternative asset investment allocation may be invested with a single manager, general partner, or single fund, with the exception of a fund-of-funds. Preference will be given to those funds where the general partner is contributing at least 1% of the total fund. All investments must have a mechanism for exit.

G. Securities Lending Program

State statutes and the Board's policies permit the System to make short-term collateralized loans of its securities to broker-dealers and other entities in order to earn incremental income. LASERS has contracted with its custodian, BNY Mellon, to lend domestic and international equity and debt securities. Collateral in the form of cash or other securities is required for 102% of the fair value of domestic or sovereign debt, and 105% of the fair value of international securities. Since the majority of the loans are terminable at will, their duration does not generally match the duration of the investments made with the cash collateral.

LASERS is not permitted to pledge or sell collateral securities unless a borrower defaults. The System did not impose any restrictions during the fiscal year on the amount of the loans that BNY Mellon made on its behalf, and BNY Mellon indemnified the System by agreeing to purchase replacement securities, or return cash collateral in the event a borrower failed to return a loaned security or pay distributions thereon. There were no such failures by any borrower to return loaned securities or pay distributions thereon during the fiscal year.

On June 30, 2021 and 2020, the System had no credit risk exposure to borrowers because the amounts the System owed the borrowers exceeded the fair value of securities on loan to the borrowers. The fair value of securities on loan totaled \$1,303,378,867 and \$1,218,722,838 for the years ended June 30, 2021, and 2020, respectively. The fair value of non-cash collateral on loan totaled \$481,858,353 and \$285,921,065 as of June 30, 2021 and 2020, respectively.

H. Total Other Postemployment Benefits (OPEB)

Substantially all employees become eligible for postemployment health care and life insurance benefits if they reach normal retirement age while working for the System. These benefits for retirees and similar benefits for active employees are provided through the Louisiana Office of Group Benefits (OGB).

1. Plan Description

Employees may participate in the State of Louisiana's Other Postretirement Benefit Plan (OPEB Plan), a multiple-employer defined benefit OPEB Plan that provides medical and life insurance to eligible active employees, retirees, and their beneficiaries. The State administers the plan through OGB. La. R.S. 42:801-883 assigns the authority to establish and amend benefit provisions of the plan. No assets are accumulated in a trust that meets the criteria in paragraph 4 of Governmental Accounting Standards Board (GASB) Statement No. 75 to pay related benefits.

2. Benefits Provided

The OPEB Plan provides benefits such as: death benefits, life insurance, disability, and long-term care that are paid in the period after employment and that are provided separately from a pension plan; as well as healthcare benefits paid in the period after employment for retirees, disabled retirees, and their eligible beneficiaries through premium subsidies.

OGB offers retirees under age 65 a choice of three self-insured healthcare plans and one fully insured plan. Retired employees who have Medicare Part A and Part B coverage have access to these plans and an additional two fully insured Medicare Advantage HMO plans; one fully insured plan, and one Zero-Premium HMO plan.

Employer contributions are based on plan premiums and the employer contribution percentage. This percentage is based on the date of participation in an OGB plan (before or after January 1, 2002) and employee years of service at retirement. Employees who began participation or rejoin the plan before January 1, 2002, pay approximately 25% of the cost of coverage (except single retirees under age 65 who pay approximately 25% of the active employee cost). For those beginning participation or rejoining on or after January 1, 2002, the percentage of premiums contributed by the employer is based on the following schedule:

OGB Participation	Employer Contribution	Retiree Contribution
Under 10 years	19%	81%
10-14 years	38%	62%
15-19 years	56%	44%
20+ years	75%	25%

In addition to healthcare benefits, retirees may elect to receive life insurance benefits. Basic and supplemental life insurance are available for the individual retiree and spouses of retirees, subject to maximum values. The retiree pays 50% of the premium for personal coverage and 100% of the premium for spousal coverage. Premiums vary by age. The employer pays the remaining amount.

3. Funding Policy

The OPEB Plan is currently funded on a pay-as-you-go basis through a combination of retiree and System contributions. OPEB contributions to the plan are generally made at about the same time and in about the same amount as benefit payments become due.

4. Total OPEB Liabilities, OPEB Expense and Deferred Outflows of Resources, and Deferred Inflows of Resources Related to OPEB

The System reported its proportionate share of the net OPEB liability as \$18,605,250 and \$17,023,923 at June 30, 2021 and 2020, respectively. The net OPEB liability was measured as of June 30th of the prior year and the total OPEB liability used to calculate the net OPEB liability was determined by an actuarial valuation as of July 1st of the prior year. The System's proportion was actuarially determined and was based on its proportionate share of the State of Louisiana's total OPEB liability. The System's proportion was 0.2246% and 0.2205% for measurement at June 30, 2020 and 2019, respectively.

LASERS recognized OPEB expense of \$89,651 and \$42,750 during the year ended June 30, 2021 and 2020, respectively. At June 30, 2021 and 2020, LASERS reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

	2021		2020	
	Deferred Outflows of Resources	Deferred Inflows of Resources	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 427,894	\$ 35,810	\$ 205,860	\$ 58,588
Changes of assumptions	486,429	1,780,383	-	2,744,283
Differences between actual and proportionate share of OPEB Payments	619,904	503,128	491,186	503,209
Employer Contributions subsequent to measurement date	430,175	-	378,202	-
Total	\$ 1,964,402	\$ 2,319,321	\$ 1,075,248	\$ 3,306,080

Deferred outflows of resources related to OPEB resulting from OPEB payments subsequent to the measurement date of \$430,175 will be recognized as a reduction of the net OPEB liability in the year ended June 30, 2021, compared to \$378,202 in 2020. Other amounts reported as deferred outflows

and inflows of resources related to OPEB will be recognized as a credit or debit to OPEB expense as follows:

Year Ended June 30:	OPEB Expense
2022	592,254
2023	322,417
2024	(8,228)
2025	(121,348)
Total	\$ 785,095

5. Actuarial Assumptions and Other Inputs

The total OPEB liability in the July 1, 2020 and 2019, actuarial valuation was determined using the following actuarial assumptions and other inputs, applied to all periods included in the measurement, unless otherwise specified:

Actuarial Cost Method	Entry Age Normal
Salary Increases	Consistent with various pension plan valuation assumptions in which employees participate.
Discount Rate	2.66% and 2.79% S&P 20-year municipal bond index rate for June 30, 2020 and 2019, respectively.
Healthcare Cost Trend Rate	Pre-age 65 ranges from 6.8% to 4.5% for June 30, 2020 Post-age 65 ranges from 5.3% to 4.5% for June 30, 2020 Pre-age 65 ranges from 7.0% to 4.5% for June, 30, 2019 Post-age 65 ranges from 5.5% to 4.5% for June 30, 2019
Mortality	For healthy lives the RP-2014 Blue Collar (males) and White Collar (females) Healthy Annuitant Tables and the RP-2014 Combined Healthy Mortality Table (rolled back to 2006 using RP-2014 projection) then projected on a fully generational basis by Mortality Improvement Scale MP-2018 for June 30, 2020 and 2019. For existing disabled lives the RP-2000 Disabled Retiree Mortality Table not projected with mortality improvement for June 30, 2020 and 2019.

The actuarial assumptions used by the pension plans covering the same participants were used for the retirement, termination, disability, and salary scale assumptions. The actuarial assumptions used in the July 1, 2020 and 2019, valuations were based on the results of an actuarial experience study for pension plan actuarial valuations for the period July 1, 2014 to June 30, 2018. There were no changes in benefit terms for 2020 and 2019.

No changes in benefits or assumptions have occurred between the June 30, 2020 and 2019 measurement dates of the collective total OPEB liability and the June 30, 2021 and 2020 reporting dates of the System, respectively, that are expected to have a significant effect on the System's proportionate share of the collective total OPEB liability.

6. Sensitivity of Total OPEB Liability

Sensitivity of the total OPEB liability to changes in the discount rate. The following presents the System's proportionate share of the collective total OPEB liability calculated using the discount rate of 2.66% and 2.79%, as well as what the System's proportionate share of the collective total OPEB liability would be if it were calculated using a discount rate that is one percentage point lower or one percentage point higher than the current rate for June 30, 2021 and 2020, respectively.

Total OPEB Liability Sensitivity to Changes in Discount Rate

		Current	
	1% Decrease	Discount Rate	1% Increase
June 30, 2021			
Discount Rate	1.66%	2.66%	3.66%
Total OPEB Liability	\$ 22,337,251	\$ 18,605,250	\$ 15,702,038
June 30, 2020			
Discount Rate	1.79%	2.79%	3.79%
Total OPEB Liability	\$ 20,468,518	\$ 17,023,923	\$ 14,349,587

Sensitivity of the total OPEB liability to changes in the healthcare cost trend rates. The following presents the System's proportionate share of the collective total OPEB liability as well as what the System's proportionate share of the collective total OPEB liability would be if it were calculated using the healthcare cost trend rates that are one percentage point lower or one percentage point higher than the current rates for June 30, 2021 and 2020, respectively.

Sensitivity of Total OPEB Liability to Changes in Healthcare Cost Trend Rates

	1% Decrease	Current Trend Rate	1% Increase
2021 Total OPEB Liability	\$ 15,538,733	\$ 18,605,250	\$ 22,615,456
2020 Total OPEB Liability	\$ 14,208,051	\$ 17,023,923	\$ 20,719,447

Required Supplementary Information

Schedules of Changes in Net Pension Liability

For Eight Years Ended June 30, 2021*

	2021	2020	2019	2018
Total Pension Liability				
Service Cost	\$ 218,244,525	\$ 220,437,301	\$ 218,865,385	\$ 214,222,176
Interest	1,449,374,537	1,447,710,612	1,425,430,990	1,411,403,403
Changes of Benefit Terms - Permanent Benefit Increase	-	-	-	-
Changes of Benefit Terms	6,041,053	-	875,621	657,700
Differences Between Expected and Actual Experience	10,871,434	(158,856,913)	88,972,166	(45,163,231)
Changes of Assumptions	269,629,371	52,927,000	68,669,381	83,241,388
Retirement Benefits	(1,394,914,135)	(1,368,004,318)	(1,343,892,705)	(1,317,635,325)
Refunds and Transfers of Member Contributions	(30,305,050)	(30,447,178)	(34,948,707)	(35,191,508)
Net Change in Total Pension Liability	528,941,735	163,766,504	423,972,131	311,534,603
Total Pension Liability - Beginning	19,691,378,799	19,527,612,295	19,103,640,164	18,792,105,561
Total Pension Liability - Ending (a)	<u>\$ 20,220,320,534</u>	<u>\$ 19,691,378,799</u>	<u>\$ 19,527,612,295</u>	<u>\$ 19,103,640,164</u>
Plan Fiduciary Net Position				
Employer Contributions	\$ 853,214,442	\$ 854,117,785	\$ 769,629,768	\$ 729,479,704
Employee Contributions	166,954,560	164,576,018	160,338,556	152,189,709
Harbor Police Transfer	-	-	-	-
Net Investment Income (Loss)	3,703,593,259	(480,573,814)	452,914,317	1,011,537,508
Other Income	14,556,140	15,955,512	13,052,134	15,198,732
Retirement Benefits	(1,394,914,135)	(1,368,004,318)	(1,343,892,705)	(1,317,635,325)
Refunds and Transfers of Member Contributions	(30,305,050)	(30,447,178)	(34,948,707)	(35,191,508)
Administrative Expenses	(16,606,586)	(16,749,257)	(16,785,776)	(14,732,258)
Other Postemployment Benefits Expenses	(89,651)	(42,750)	(538,097)	(9,525,495)
Depreciation and Amortization Expenses	(769,107)	(820,094)	(783,617)	(883,799)
Net Change in Plan Fiduciary Net Position	3,295,633,872	(861,988,096)	(1,014,127)	530,437,268
Plan Fiduciary Net Position - Beginning	11,420,710,895	12,282,698,991	12,283,713,118	11,753,275,850
Plan Fiduciary Net Position - Ending (b)	<u>\$ 14,716,344,767</u>	<u>\$ 11,420,710,895</u>	<u>\$ 12,282,698,991</u>	<u>\$ 12,283,713,118</u>
Net Pension Liability - Ending (a)-(b)	<u>\$ 5,503,975,767</u>	<u>\$ 8,270,667,904</u>	<u>\$ 7,244,913,304</u>	<u>\$ 6,819,927,046</u>

*Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

Schedules of Changes in Net Pension Liability (Continued)

For Eight Years Ended June 30, 2021*

	2021	2020	2019	2018
Plan Fiduciary Net Position as a Percentage of Total Pension Liability				
Covered Payroll	\$ 2,004,062,861	\$ 1,999,414,595	\$ 1,952,495,777	\$ 1,864,035,191
	72.8%	58.0%	62.9%	64.3%
Net Pension Liability as a Percentage of Covered Payroll				
	274.6%	413.7%	371.1%	365.9%

*Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

Required Supplementary Information

Schedules of Changes in Net Pension Liability (Continued)

For Eight Years Ended June 30, 2021*

	2017	2016	2015	2014
Total Pension Liability				
Service Cost	\$ 219,475,741	\$ 222,458,027	\$ 208,898,813	\$ 228,140,255
Interest	1,405,827,435	1,379,644,606	1,353,766,106	1,334,400,080
Changes of Benefit Terms - Permanent Benefit Increase	-	120,572,581	-	114,705,590
Changes of Benefit Terms	-	20,680,250	-	-
Differences Between Expected and Actual Experience	(139,108,937)	(109,244,104)	13,638,601	(167,128,306)
Changes of Assumptions	41,711,761	-	-	-
Retirement Benefits	(1,274,461,022)	(1,238,507,932)	(1,199,079,252)	(1,167,477,166)
Refunds and Transfers of Member Contributions	(37,606,040)	(35,997,261)	(38,308,757)	(77,118,765)
Net Change in Total Pension Liability	215,838,938	359,606,167	338,915,511	265,521,688
Total Pension Liability - Beginning	18,576,266,623	18,216,660,456	17,877,744,945	17,612,223,257
Total Pension Liability - Ending (a)	\$ 18,792,105,561	\$ 18,576,266,623	\$ 18,216,660,456	\$ 17,877,744,945
Plan Fiduciary Net Position				
Employer Contributions	\$ 675,583,750	\$ 718,606,512	\$ 726,678,134	\$ 615,164,022
Employee Contributions	149,931,242	152,233,771	153,281,097	152,993,052
Harbor Police Transfer	-	10,790,721	-	-
Net Investment Income (Loss)	1,520,600,699	(296,729,232)	152,809,130	1,770,521,381
Other Income	14,049,255	15,185,502	12,928,989	20,810,679
Retirement Benefits	(1,274,461,022)	(1,238,507,932)	(1,199,079,252)	(1,167,477,166)
Refunds and Transfers of Member Contributions	(37,606,040)	(35,997,261)	(38,308,757)	(77,118,765)
Administrative Expenses	(17,074,984)	(15,615,605)	(15,877,682)	(14,810,539)
Other Postemployment Benefits Expenses	(904,975)	(982,858)	(940,845)	(1,103,488)
Depreciation and Amortization Expenses	(556,901)	(419,718)	(1,193,314)	(1,724,101)
Net Change in Plan Fiduciary Net Position	1,029,561,024	(691,436,100)	(209,702,500)	1,297,255,075
Plan Fiduciary Net Position - Beginning	10,723,714,826	11,415,150,926	11,624,853,426	10,327,598,351
Plan Fiduciary Net Position - Ending (b)	\$ 11,753,275,850	\$ 10,723,714,826	\$ 11,415,150,926	\$ 11,624,853,426
Net Pension Liability - Ending (a)-(b)	\$ 7,038,829,711	\$ 7,852,551,797	\$ 6,801,509,530	\$ 6,252,891,519

*Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

Schedules of Changes in Net Pension Liability (Continued)

For Eight Years Ended June 30, 2021*

	2017	2016	2015	2014
Plan Fiduciary Net Position as a Percentage of Total Pension Liability	62.5%	57.7%	62.7%	65.0%
Covered Payroll	\$ 1,821,943,975	\$ 1,842,286,184	\$ 1,856,735,292	\$ 1,813,759,357
Net Pension Liability as a Percentage of Covered Payroll	386.3%	426.2%	366.3%	344.7%

*Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

Required Supplementary Information

Required Supplementary Information

Schedules of Employers' Net Pension Liability

For Nine Years Ended June 30, 2021*

Fiscal Year	Total Pension Liability	Plan Fiduciary Net Position	Employers' Net Pension Liability	Plan Fiduciary Net Position as a Percentage of Total Pension Liability		Employers' Net Pension Liability as a Percentage of Covered Payroll	
				Percentage of Total Pension Liability	Covered Payroll	Covered Payroll	Covered Payroll
2013	\$ 17,612,223,257	\$ 10,327,598,351	\$ 7,284,624,906	58.6%	\$ 1,951,987,750	\$ 1,951,987,750	373.2%
2014	\$ 17,877,744,945	\$ 11,624,853,426	\$ 6,252,891,519	65.0%	\$ 1,813,759,357	\$ 1,813,759,357	344.7%
2015	\$ 18,216,660,456	\$ 11,415,150,926	\$ 6,801,509,530	62.7%	\$ 1,856,735,292	\$ 1,856,735,292	366.3%
2016	\$ 18,576,266,623	\$ 10,723,714,826	\$ 7,852,551,797	57.7%	\$ 1,842,286,184	\$ 1,842,286,184	426.2%
2017	\$ 18,792,105,561	\$ 11,753,275,850	\$ 7,038,829,711	62.5%	\$ 1,821,943,975	\$ 1,821,943,975	386.3%
2018	\$ 19,103,640,164	\$ 12,283,713,118	\$ 6,819,927,046	64.3%	\$ 1,864,035,191	\$ 1,864,035,191	365.9%
2019	\$ 19,527,612,295	\$ 12,282,698,991	\$ 7,244,913,304	62.9%	\$ 1,952,495,777	\$ 1,952,495,777	371.1%
2020	\$ 19,691,378,799	\$ 11,420,710,895	\$ 8,270,667,904	58.0%	\$ 1,999,414,595	\$ 1,999,414,595	413.7%
2021	\$ 20,220,320,534	\$ 14,716,344,767	\$ 5,503,975,767	72.8%	\$ 2,004,062,861	\$ 2,004,062,861	274.6%

*Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

Schedules of Employer Contributions

For Ten Years Ended June 30, 2021

Date	Contributions in Relation to		Contribution Deficiency (Excess)	Covered Payroll	Contributions as a % of Covered Payroll
	Actuarial Determined Contribution	Actuarial Determined Contribution			
2012	\$ 687,019,184	\$ 637,285,920	\$ 49,733,264	\$ 2,341,703,286	27.2%
2013	\$ 724,391,420	\$ 649,029,708	\$ 75,361,712	\$ 1,951,987,750	33.2%
2014	\$ 709,799,409	\$ 612,698,414	\$ 97,100,995	\$ 1,813,759,357	33.8%
2015	\$ 697,377,899	\$ 722,137,361	\$ (24,759,462)	\$ 1,856,735,292	38.9%
2016	\$ 694,091,525	\$ 718,606,514	\$ (24,514,989)	\$ 1,842,286,184	39.0%
2017	\$ 701,906,777	\$ 675,583,750	\$ 26,323,027	\$ 1,821,943,975	37.1%
2018	\$ 707,672,002	\$ 725,802,871	\$ (18,130,869)	\$ 1,864,035,191	38.9%
2019	\$ 717,033,569	\$ 760,150,449	\$ (43,116,880)	\$ 1,952,495,777	38.9%
2020	\$ 785,380,878	\$ 837,449,602	\$ (52,068,724)	\$ 1,999,414,595	41.9%
2021	\$ 795,212,826	\$ 844,776,387	\$ (49,563,561)	\$ 2,004,062,861	42.2%

Required Supplementary Information

Schedules of Investment Returns

For Nine Years Ended June 30, 2021*

	2021	2020	2019	2018	2017	2016	2015	2014	2013
Annual Money-Weighted Rate of Return, Net of Investment Expense	33.4%	-3.6%	3.8%	8.9%	14.9%	-2.6%	1.5%	17.9%	12.1%

*Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

Schedules of the System's Proportionate Share of the Collective Total OPEB Liability

For Four Years Ended June 30, 2021*

Fiscal Year	Percentage of the Collective Total OPEB Liability	System's Proportionate Share of the Collective Total OPEB Liability	Employers' Covered Payroll	Proportionate Share of the Collective Total OPEB Liability as a % of Covered Payroll
2018	0.2127%	\$ 18,489,294	\$ 8,317,152	222.30%
2019	0.2156%	\$ 18,401,229	\$ 8,627,155	213.29%
2020	0.2205%	\$ 17,023,923	\$ 8,688,890	195.93%
2021	0.2246%	\$ 18,605,250	\$ 9,197,742	202.28%

Note: The amounts presented have a measurement date of the previous fiscal year end.

Required Supplementary Information

*Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

Notes to Required Supplementary Information

A. Schedules of Changes in Net Pension Liability

The total pension liability contained in this schedule was provided by the System's actuary, Foster & Foster, and was determined based on the net pension liability actuarial assumptions found in the chart that follows. The net pension liability is measured as the total pension liability less the amount of the fiduciary net position of the System.

B. Schedules of Employers' Net Pension Liability

The schedule of employers' net pension liability shows the percentage of LASERS employers' net pension liability as a percentage of covered employee payroll and was determined based on the net pension liability actuarial assumption found in the chart that follows. The employers' net pension liability is the liability of contributing employers to members for benefits provided through LASERS. Covered employee payroll is the payroll of all employees that are provided with benefits through the plan.

C. Schedules of Employer Contributions

The difference between actuarially determined employer contributions and employer contributions received, and the percentage of employer contributions received to covered employee payroll is presented in this schedule. This information was determined based on the net pension liability actuarial assumptions found in the chart that follows.

D. Schedules of Investment Returns

The annual money-weighted rate of return is shown in this schedule. The money-weighted rate of return is calculated as the internal rate of return on pension plan investments, net of pension plan investment expense. This expresses investment performance adjusted for the changing amounts actually invested throughout the year, measured on daily inputs with expenses measured on an accrual basis.

E. Schedules of the System's Proportionate Share of the Collective Total OPEB Liability

This schedule shows the System's proportionate share of the collective total OPEB liability allocated to its current employees and retirees participating in the State of Louisiana Postretirement Benefit Plan as of June 30, 2021. No assets are accumulated in a trust that meets the criteria in paragraph 4 of Statement 75. Fiscal year end 2020 data was used in determining the System's proportionate share of the collective total OPEB liability. The discount rate changed from 2.79% as of June 30, 2019 to 2.66% as of June 30, 2020. The number of retirees participating in the plan increased by one to 48 from fiscal year end 2019 to 2020. There were no changes in benefit terms. The schedule also represents the percentage of the collective total OPEB liability to covered payroll. This information was determined based on the OPEB actuarial assumptions found in the chart that follows.

Net Pension Liability Actuarial Assumptions

For Nine Years Ended June 30, 2021

	2021	2020	2019	2018	2017
Actuarial Cost Method	Entry Age Normal	Entry Age Normal	Entry Age Normal	Entry Age Normal	Entry Age Normal
Investment Rate of Return	7.40%	7.55%	7.60%	7.65%	7.70%
Inflation Rate	2.30%	2.30%	2.50%	2.75%	2.75%
Salary Increases	Varied	Varied	Varied	Varied	Varied
Cost of Living Adjustments	Not Automatic; Subject to Limits	Not Automatic; Subject to Limits	Not Automatic; Subject to Limits	Not Automatic; Subject to Limits	Not Automatic; Subject to Limits
Mortality/Disability	2013-2018 Experience Study	2013-2018 Experience Study	2013-2018 Experience Study	2008-2013 Experience Study	2008-2013 Experience Study
Changes in Benefit Terms	Act 37 of 2021	N/A	Acts 224 and 595 of 2018	Acts 224 and 595 of 2018	N/A
	2016	2015	2014	2013	
Actuarial Cost Method	Entry Age Normal	Entry Age Normal	Entry Age Normal	Projected Unit Credit	
Investment Rate of Return	7.75%	7.75%	7.75%	7.75%	
Inflation Rate	3.00%	3.00%	3.00%	3.00%	
Salary Increases	Varied	Varied	Varied	Varied	
Cost of Living Adjustments	Not Automatic; Subject to Limits	Not Automatic; Subject to Limits	Not Automatic; Subject to Limits	Not Automatic; Subject to Limits	
Mortality/Disability	2008-2013 Experience Study	2008-2013 Experience Study	2008-2013 Experience Study	2003-2008 Experience Study	
Changes in Benefit Terms	Act 648 of 2014	N/A	N/A	N/A	

Required Supplementary Information

OPEB Actuarial Assumptions**For Four Years Ended June 30, 2021**

	2021	2020	2019	2018
Actuarial Cost Method	Entry Age Normal	Entry Age Normal	Entry Age Normal	Entry Age Normal
Asset Valuation	Pay-As-You-Go Basis	Pay-As-You-Go Basis	Pay-As-You-Go Basis	Pay-As-You-Go Basis
Discount Rate	2.66%	2.79%	2.98%	3.13%
Salary Increases	Varied	Varied	Varied	Varied
Inflation Rate	2.80%	2.80%	2.80%	2.80%
Mortality/ Disability	2013-2018 Experience Study	2013-2018 Experience Study	2013-2018 Experience Study	2008-2013 Experience Study

Schedules of Administrative Expenses

For the Years Ended June 30, 2021 and 2020

	2021	2020
	<hr/>	<hr/>
Administrative Expenses:		
Salaries and Related Benefits	\$ 12,674,920	\$ 12,717,042
Travel Expenses	3,052	71,534
Operating Services	3,275,412	3,133,423
Professional Services	561,971	747,805
Acquisitions	91,231	79,453
	<hr/>	<hr/>
Total Administrative Expenses	\$ 16,606,586	\$ 16,749,257
	<hr/> <hr/>	<hr/> <hr/>

Schedules of Investment Expenses

For the Years Ended June 30, 2021 and 2020

	2021	2020
Investment Activities Expenses:		
Alternative Investment Expenses		
Manager Fees	\$ 59,163,171	\$ 58,213,023
Profit Sharing Fees	438,138	136,226
Total Alternative Investment Expenses	59,601,309	58,349,249
Investment Management Expenses		
Manager Fees	25,354,699	23,889,137
Administrative Expenses	2,560,588	2,527,080
Profit Sharing Fees	13,056,831	5,945,551
Consultant Fees	774,500	753,000
Research and Data Services	681,339	650,356
Investment Performance Management	112,717	105,562
Investment Legal Fees	11,059	54,594
Global Custodian Fees	160,190	142,904
Total Investment Management Expenses	42,711,923	34,068,184
Security Lending Expenses		
Securities Lending Management Fees	605,387	9,298,755
Total Investment Expenses	\$ 102,918,619	\$ 101,716,188

Schedules of Board Compensation

For the Years Ended June 30, 2021 and 2020

Board of Trustees	2021		2020	
	Number of Meetings	Amount	Number of Meetings	Amount
Thomas Bickham ¹	12	\$ -	11	\$ -
Virginia Burton	12	900	10	750
Charles Castille	12	900	5	375
Beverly Hodges	12	900	10	750
William Kleinpeter	10	750	7	525
Janice Lansing	11	825	9	675
Barbara McManus	12	900	11	825
Lori Pierce	12	900	9	675
Shannon Templet ¹	9	-	10	-
Lorry Trotter	-	-	7	525
Total Compensation		\$ 6,075		\$ 5,100

¹ Board member chose not to receive per diem for all or part of their term.

Schedules of Professional/Consultant Fees

For the Years Ended June 30, 2021 and 2020

	2021	2020
Accounting and Auditing		
Postlethwaite & Netterville, APAC	\$ 87,383	\$ 83,929
Actuary		
Foster & Foster Actuaries & Consultants, Inc.	172,000	207,009
Legal Fees		
Laura Denson Holmes	-	1,225
Tarcza & Associates, LLC	9,440	20,083
Disability Program		
Physician and Other Reviews	51,348	43,968
Other Professional Services		
CMA Technology Solutions	30,838	20,050
Cognizant Technology Solutions US Corp.	103,800	307,072
Election Services, Co.	12,398	-
ERP-One Consulting Inc.	69,615	-
Guidepoint Security, LLC	24,500	-
iBridge Group Inc.	-	4,071
Sparkhound	-	60,398
Other Non-Consultant Professionals	650	-
Professional Service/Consultant Fees	\$ 561,971	\$ 747,805

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INVESTMENT SECTION



***Photos:** (L) LASERS first approved investment in 1947 was for \$200,000 in U.S. Treasury Bonds, Series G & H. This is an example of this type of bond from 1950. (R) The National Bank of Commerce in New Orleans was selected as LASERS first custodian bank in 1955.*

The System's most remarkable growth over the past 75 years is in the area of investments. Our retirement fund balance was \$1.1 million in 1947, and today it stands in excess of \$12 billion. LASERS is a long-term investor managed by its Board of Trustees and a team of dedicated investment professionals. Investment income is typically the main source of revenue for benefits paid to our members and their beneficiaries.

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8401 United Plaza Blvd., Baton Rouge, LA 70809 | Mail: P.O. Box 44213, Baton Rouge, LA 70804-4213
 Toll-free: 1.800.256.3000 | Local: 225.922.0600 | www.lasersonline.org

September 20, 2021

Dear Members,

The Louisiana State Employees' Retirement System (LASERS) earned a 35.6% gross-of-feesⁱ, time-weighted return on investments for the fiscal year ended June 30, 2021. As a result, the total gross-of-fee investment value of the fund as of June 30, 2021 exceeded \$13.9 billion. This is the Plan's highest ever fiscal year-end return, and places LASERS in the top second percentile for the one-year period, as compared to other public pension plans with market values greater than \$1 billion in the Wilshire Trust Universe Comparison Service (TUCS)ⁱⁱ. Longer-term annualized rates of return are 11.5% for the five-year period, 8.0% for the seven-year period, and 8.7% for the ten-year period.

Following a year of unprecedented market volatility and swift actions from both the U.S. Federal Reserve along with worldwide central banks, the 2020-2021 fiscal year saw an outstanding recovery. At the start of the fiscal year, modest upticks were seen in economic activity, although it remained well below pre-pandemic levels, and economic uncertainty along with heightened volatility across capital markets lingered. In the U.S., the Federal Reserve's policy shift of seeking to achieve average inflation of two percent caused inflation expectations to rise and the yield curve to steepen. By the end of 2020, clarity around the U.S. Presidential election and positive vaccine news led to strong broad based performance. Going into 2021, expectation of a return to pre-pandemic normalcy was growing due to stronger-than-expected economic data, vaccine optimism, and stimulus tailwinds, prompting higher growth and inflation expectations. The fiscal year ended with some volatility due to concerns about the spread of the Delta variant, although markets posted impressive double-digit returns in nearly every asset class.

For the fiscal year, the Plan benefited from both global market improvements as well as the asset allocation changes that were adopted by the Board of Trustees in October 2020. Allocation changes included increases to U.S. equity, Global Multi-Sector, and Private Markets, with the ever-present goal of maintaining appropriate diversification while balancing the risk-return trade-off. On a broad level, the Plan's allocation to U.S. equities earned 46.8%, the highest asset class return for the fiscal year. That was followed by 42.2% achieved from the Non-U.S. equity allocation. Of note, is that this was accomplished while the management fee was reduced by increasing assets in the internally-managed program, which accounted for over 38% of Total Plan assets as of June 30, 2021. In the Alternatives space, the Private Markets portfolio posted a 46.8% return and the overall

BOARD OF TRUSTEES:

Beverly Hodges, Board Chair
 Barbara McManus, Vice Chair
 Thomas Bickham
 Virginia Burton

Charles Castille
 Commissioner Jay Dardenne
 Rep. Lance Harris
 Judge William Kleinpeter

Janice Lansing
 Sen. Barrow Peacock
 Lori Pierce
 Hon. John Schroder
 Shannon Temple

Cindy Rougeou, Executive Director

LASERS Benefits Louisiana.

Fixed Income portfolio earned 14.3%, led by the Global Multi-Sector allocation which out-performed its benchmark by 9.9%. Full implementation of the newly approved asset allocation remains underway.

As always, we continue to work diligently to meet long-term goals and objectives and safeguard your retirement.

Sincerely,



Robert W. Beale, CFA, CAIA
Chief Investment Officer

ⁱ LASERS custodian bank serves as book of record and calculates investment performance on behalf of the Plan.

ⁱⁱ Based on Wilshire's TUCS Rankings dated August 19, 2021.



Rhett Humphreys, CFA
Partner

August 25, 2021

Board of Trustees
Louisiana State Employees' Retirement System
8401 United Plaza Blvd.
Baton Rouge, LA 70809

Dear Board Members,

As an independent investment advisor to the Louisiana State Employees' Retirement System (System) and its Board of Trustees (Board), NEPC is pleased to provide a fiscal-year ending overview of the investment policies, investment planning and implementation, and investment compliance, as well as a summary of investment markets during the FY2021.

INVESTMENT POLICIES

The System's investment policy can be accessed online at <https://lasersonline.org/investments/investment-policy/>. The investment policy includes a summary of the controlling statutes and regulations, the roles and responsibilities of those with oversight and management of the investment program, the System's investment objectives, an overview of performance benchmarking, an outline of the strategic asset allocation, and guidelines for managing and monitoring the investment program.

In NEPC's opinion, the System's assets are managed under a thorough and transparent set of investment policies and guidelines. These policies and guidelines appropriately highlight the long-term strategic performance objectives of the System and emphasize the dual importance of maintaining robust risk controls while pursuing long-term return objectives.

INVESTMENT PLANNING AND IMPLEMENTATION

The System's investment program continues to evolve to address a dynamically changing investment market. The LASERS strategic asset allocation targets a 54% allocation to diversified public equities, a 22% target allocation to fixed income (globally diversified across US bonds, global multi-sector bonds, emerging market debt, and cash equivalents), and a 24% target allocation to other alternative asset classes (including private equity and absolute return investments). NEPC and the System's staff have focused on building an appropriate blend of return-seeking and diversifying sub-asset classes and investment managers in the implementation of the equity, fixed income, and alternatives portfolios.

Based on the FY2021 target allocations, NEPC forecasts a base-case expected nominal rate of return over the next 10 years of 6.6% (annualized) and 7.5% (annualized) over the next 30 years. Additional risk metrics, such as risk budgeting and economic scenario stress testing, were applied in establishing the Fiscal Year target asset allocation with the goal of balancing between potential investment gains and potential downside risks.

FISCAL YEAR 2021 MARKET COMMENTARY

Following FY2020 when volatility roiled investment markets as investors grappled with the potential fallout of the COVID-19 pandemic, capital markets in FY2021 were bolstered by

strong corporate earnings, optimism surrounding the development of COVID-19 vaccines in late calendar year 2020 and their eventual distribution in calendar year 2021, as well as by the re-opening of economies and supporting fiscal stimulus.

Global equity indexes rallied during the twelve months ending June 30, 2021, posting positive returns in domestic, international, and emerging markets. US equity markets (as measured by the S&P 500 Index) ended each of the four quarters of FY2021 with positive results and with a fiscal-year ending return of 40.8%. Within the U.S. stock market, small cap stocks (as measured by the Russell 2000 Index) posted the strongest results with a one-year return of 62.0%. Developed international equity markets (as measured by the MSCI EAFE Index) ended FY2021 with a 12-month return of 32.4%. Emerging markets stocks ended the fiscal year with a one-year return of 40.9%.

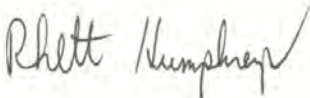
The U.S. Federal Reserve held its benchmark rate to a range of 0.00% - 0.25% throughout the fiscal year and continued its monthly asset purchase program of buying \$120 billion in Treasury and mortgage-backed securities that it had implemented in 2020. Despite contracting credit spreads, which supported gains in U.S. investment grade credit and high yield markets, rising U.S. Treasury rates during the fiscal year were a headwind for the U.S. investment grade bond market. The Bloomberg Barclays US Aggregate Index ended the fiscal year down -0.3%, with the Bloomberg Barclays U.S. Treasury Index down -3.2% for the trailing 12-month period ending June 30, 2021. The U.S. high yield bond market (as measured by the Bloomberg Barclays US High Yield Index) posted a twelve month return of 15.4%. In real assets, commodities rebounded off calendar year 2020 lows with the Bloomberg Commodities Index posting one-year gains of 45.6% and WTI crude oil prices rising 87.1% since June 30, 2020.

INTERNAL COMPLIANCE AND OVERSIGHT

Regular testing of System's portfolios and a continuous review of the compliance function is viewed as industry best practices. While serving as the System's investment advisor, NEPC has witnessed staff's consistent and ongoing efforts to improve the effectiveness of their internal reporting and compliance procedures. NEPC also believes that the Investment Division's support of the CFA® Institute's Code of Ethics and Standards of Professional Conduct, as well as the guidelines and procedures that are set forth in the LASERS Personal Trading Policies, are consistent with industry best practices.

The daily management of the System's assets has been clearly delegated to the System's investment staff. In NEPC's opinion, this clear delegation and responsibility and accountability helps the Board maintain effective oversight of the System's defined benefit, and defined contribution funds. Monthly investment performance reviews and regular oversight of staff's activities, as well as the review of investment service providers continues to support of the Board's oversight duties.

Sincerely,



Rhett Humphreys, CFA
Partner

Summary of Investment Policy

I. Statement of Investment Objectives

This document specifically outlines the investment philosophy and practices of LASERS and has been developed to serve as a framework for the management of the System's defined benefit plan. The Board has established the investment guidelines to formalize investment objectives, policies and procedures, and to define the duties and responsibilities of the various entities involved in the investment process. All policy decisions shall include liquidity and risk considerations that are prudent and reasonable under the circumstances that exist over time. The policies will evolve as the internal conditions of the fund and the capital markets environment changes. Any resulting material changes will be communicated to all affected parties.

II. Controlling Statutes and Regulation

Investments of the Louisiana State Employees' Retirement System shall be made in full accordance with Louisiana Revised Statutes, applicable legislation or regulation as well as LASERS internal policies and procedures. Among other applicable rules and regulations, the following apply:

LASERS shall operate under the "Prudent Man" rule, used herein meaning, that when investing, the Board shall exercise the care, skill, prudence, and diligence under the circumstances then prevailing that a prudent institutional investor acting in a like capacity and familiar with such matters would use in the conduct of an enterprise of a like character and with like aims. LASERS will apply this standard to the entire fund portfolio, and as part of an overall investment strategy. This will include an asset allocation study and a plan for implementation which will incorporate risk and return objectives reasonably suitable to the fund. The following types of risk are to be examined: market value, credit, interest rate, inflation, counterparty, and concentration. The study and implementation of such plan will be designed to preserve and enhance principal over the long term, provide adequate liquidity and cash flow for the system, and minimize the risk of loss unless it is clearly prudent not to do so.

LASERS is subject to a legislative limit restricting the fund so that no more than 65% of its total assets are invested in publicly traded equities. Should LASERS have more than 55% of its total assets invested in publicly traded equities, at least 10% of those equities must be invested in one or more index funds. Alternative assets are not considered to be equities when calculating LASERS equity exposure. LASERS is aware that markets will fluctuate, and any rebalancing will appropriately consider market conditions and any other relevant factors.

III. Roles and Responsibilities

The following section outlines the roles and responsibilities for each of the parties involved with executing the policy. In addition to the activities described below, each person involved with the policy serves as a fiduciary and will adhere to the "Prudent Man" rule as described in State Statute.

Board of Trustees

The Board of Trustees is responsible for the total investment program. The Board shall approve

the investment policy, and provide overall direction to the administrative staff in the execution of the investment policy. The Board will conduct formal annual evaluations of the administrative staff, investment consultant and custodian.

Investment Committee

The Investment Committee was established by the Board to assist in oversight of the investment program; it will consist of not less than seven members of the Board. The Committee reviews and makes recommendation to the Board on investment actions including, but not limited to, the following:

- Asset Allocation
- Asset Management
- Risk Control
- Monitoring

Chief Investment Officer

The Chief Investment Officer (CIO) shall assist the Board in developing and modifying policy objectives and guidelines, including the development of liability driven asset allocation strategies and recommendations on long-term asset allocation and the appropriate mix of investment manager styles and strategies. Choosing appropriate manager styles and strategies will include assisting the Board in evaluating the use of index funds as an alternative to active management. Additionally, the CIO shall provide assistance in manager searches and selection, investment performance calculation and evaluation, and any other analysis associated with the proper execution of the Board's directives.

The CIO shall also communicate the decisions of the Investment Committee to investment managers, custodian bank(s), actuary, and consultant. The CIO provides oversight of the investment consultant, investment service providers, and personnel of LASERS investment division.

Investment Consultant

The Investment Consultant works under direction of the Board, offering a third-party perspective and providing an additional level of oversight to the System's investment program. The Consultant's normal functions shall include assisting the Board and the CIO in developing and modifying policy objectives and guidelines, including the development of a liability-driven asset allocation strategy and recommendations on the appropriate mix of investment manager styles, strategies and funding levels.

Investment Managers

The duties and responsibilities of each of the investment managers retained by the Board include, but may not be limited to, the following:

- Investing the assets under its management in accordance with the policy guidelines and objectives as well as directives listed in individual investment manager agreements.
- Meeting or exceeding the manager-specific benchmarks, net of all fees and expenses.
- Exercising investment discretion within the guidelines and objectives.

- Complying with all provisions pertaining to the investment manager's duties and responsibilities as a fiduciary.
- Complying with the CFA Institute's Code of Ethics & Standards of Professional Conduct and Global Investment Performance Standards (GIPS).
- Disclosing all conflicts and potential conflicts of interest.
- Ensuring that all portfolio transactions are made on a "best execution" basis.
- Exercising ownership rights, where applicable.
- Meeting with the Board as needed upon request of the Board, and timely submitting all required reports.
- Promptly informing the Board regarding all significant matters pertaining to the investment of the fund assets.
- Initiating written communication with the Board when the manager believes that this Investment Policy is inhibiting performance and/or should be altered for any valid reason. No deviation from the guidelines and objectives established in the Policy is permitted until after such communication has occurred and the Board has approved such deviation in writing.
- Reconciling performance, holdings and security pricing data with the Fund's custodian bank.
- Any other duties included in the contract.

Custodian Bank

The Custodian is responsible for the safekeeping of System assets and serves as the official book of record. It is understood that investments that are held in partnerships, commingled accounts or unique asset classes are unable to be held by the System's custodian bank.

The Custodian(s) will be responsible for performing the following functions:

- Holding System assets directly, through its agents, its sub-custodians, or designated clearing systems.
- Registration of System assets in good delivery form, collection of income generated by those assets, and any corporate action notification.
- Delivery and receipt of securities.
- Disbursement of all income or principal cash balances as directed.
- Providing daily cash sweep of idle principal and income cash balances.
- Providing online records and reports.
- Providing monthly statements by investment managers' accounts and a consolidated statement of all assets.
- Providing monthly performance reports and quarterly performance analysis reports.
- Notifying appropriate entities of proxies.
- Managing the securities lending program (if applicable).
- Overseeing domestic securities class actions on behalf of the System.
- Providing a compliance monitoring system.
- Any other duties and services included in the contract.

IV. Investment Objectives

Nominal Return Requirements

The investment program shall be structured to preserve and enhance principal over the long term,

in both real and nominal terms. For this purpose, short-term fluctuations in values will be considered secondary to long-term investment results. The investments of the Fund shall be diversified to minimize the risk of significant losses. Total return, which includes realized and unrealized gains, plus income less expenses, is the primary goal of LASERS.

The actuarial valuation discount rate for the Fund was 7.4% for the period ending June 30, 2021. However, LASERS seeks to achieve a long-term actuarial assumed rate of return that is 35 basis points greater than the discount rate in order to account for the expected cost of gain-sharing which is allocated to the Experience Account to fund future permanent benefit increases.

Relative Return Requirements

LASERS seeks to have total returns rank in the top half of the appropriate public fund universe, reflecting similar circumstances to the Fund. The Total Fund return should, over time, exceed the Policy and Allocation Indices. Returns for LASERS managers should exceed their respective benchmarks, as well as rank in the top half of the appropriate universe of managers adhering to the same investment strategy.

The Board further recognizes that the return targets described herein may not be achieved in any single year. A longer-term horizon of 5-7 years shall be used in measuring the long-term success of the Fund. While the Board expects that returns will vary over time, LASERS has a risk tolerance consistent with that of other funds created for similar purposes, and the assets of the Fund shall be invested accordingly.

V. Performance Benchmarks

Total Fund Return

The Total Fund return shall be compared against other public pension plans. LASERS will compare its returns against other funds of similar size and circumstances. LASERS Total Fund return should meet or exceed the Allocation Index return and the Policy Index return, which are each described below.

Allocation Index

The Allocation Index return shall measure the success of the Fund's current allocation. It shall be calculated by using index rates of return for each asset class invested in by the Fund multiplied by the actual percent allocated to each asset class. The difference between the Allocation Index return and the Total Fund return measures the effect of active management. If the Total Fund return is greater than the Allocation Index return, then active management has in aggregate added value. If the Total Fund return is less than the Allocation Index return, then active management has not added value.

Policy Index

The Policy Index return shall measure the success of the Fund's target allocation. It shall be calculated by using index rates of return for each asset class invested in by the Fund multiplied by the percent targeted to each asset class. The difference between the Allocation Index return and the Policy Index return measures the effects of deviating from the target allocation. If the Allocation Index return is greater than the Policy Index return, then deviating from the target allocation has

added value. If the Allocation Index return is less than the Policy Index return, then deviating has not added value.

Manager Benchmarks

LASERS Investment Managers shall be compared to a combination of passively managed index returns matching the managers' specific investment styles, as well as the median manager in their appropriate peer group universe.

VI. Asset Allocation

The foundation of the System's strength and stability rests upon the diversification of plan assets. The following section outlines the current asset allocation, which was designed to achieve the required return objectives of the System, given certain risk considerations. This is to be pursued by LASERS on a long-term basis, but will be revised if significant changes occur within the economic and/or capital market environments. Changes in liability structure, funded status, or long-term investment prospects should trigger a revision of the asset allocation.

Based on the Board's determination of the appropriate risk tolerance for the System and its long-term expectations, the following asset class policy target allocation and permissible ranges have been established:

Target Asset Mix

Asset Class	Fair Value Target (%)	Minimum Exposure (%)	Maximum Exposure (%)
Equities	54	44	64
Domestic Large Cap	23	18	28
Domestic Mid and Small Cap	8	3	14
Established International Equity	15	5	25
Emerging International Equity	8	2	14
Fixed Income	21	12	32
Core Fixed Income	3	0	10
Global Multi-Sector	14	9	19
Emerging Market Debt	4	1	9
Alternative Assets	24	14	34
Private Markets	20	15	25
Absolute Return	4	0	9
Cash	1	0	8

Implementation

LASERS recognizes that special expertise is required to properly invest the majority of the assets described. However, certain highly efficient passively managed investment strategies lend themselves to internal management, resulting in lower management fees for the Fund as a whole. Where appropriate, LASERS will manage these assets internally, so long as the same level of care, prudence, and oversight is maintained that an outside professional investment advisor would typically provide.

Rebalancing

The CIO will review LASERS asset allocation at least quarterly to determine if it is consistent with the exposure ranges established for LASERS described herein. The CIO will direct staff and investment managers to transfer funds to rebalance the asset allocation as necessary. The CIO will consider market conditions and transaction costs, as well as any other relevant factors when rebalancing.

VII. Risk Management

It is recognized that risk issues permeate the entire investment process, and risk is considered throughout the investment process from asset allocation to performance evaluation. Ongoing monitoring will be accomplished through a “mosaic” approach, in which various forms of analysis and reporting contribute to the total picture. Inspection of levels of diversification, nominal risk exposures, risk/return plots, sortino ratio, Value at Risk, tracking error, and worst-case scenarios modeling form the core of the monitoring process.

VIII. Manager Selection

LASERS reserves the right to retain managers to oversee portions of the System’s assets. Manager selection is accomplished in accordance with the vendor selection criteria in LASERS Board Governance Policy.

LASERS will not consider the selection of any manager without first setting a target allocation to a particular asset class, and determining that a manager is needed to implement that allocation strategy. Once LASERS has determined that a manager search is warranted, it will establish certain minimum criteria for a manager to be considered eligible to participate in the search. LASERS intends that any qualified candidate receive fair consideration. As such, industry recognized databases will be used for screening purposes to ensure that an unbiased and objective search process is achieved.

In selecting investment managers LASERS will follow a due diligence process, so as to avoid selecting managers on an ad-hoc basis. The process will involve analyzing investment manager candidates in terms of appropriate criteria. LASERS shall strive to hire investment managers that offer the greatest incremental benefit to the Fund, net of fees and expenses, in accordance with, but not limited to, the due diligence criteria listed below:

Qualitative Factors

- Appropriateness of investment philosophy and process
- Fit between product and existing plan assets, liabilities and objectives

- Length of key professionals' tenures

Quantitative Factors

- Absolute and relative returns, and variability of returns
- Portfolio characteristics

Organizational Factors

- Length of firm history
- Stability of the firm's client base and assets under management
- Ownership structure
- Compensation structure
- Fee structure
- References and professional qualifications

As private markets does not lend itself to traditional manager searches, LASERS shall seek to perform the same level of due diligence on these opportunities as it would in a typical manager search. Because most private markets products have only brief, discrete time periods during which they are raising assets, LASERS will consider an additional investment with an existing manager if the investment philosophy, process, people, performance and fees are materially similar to previous investments. LASERS may invest with a new manager only after the appropriate due diligence is performed.

As part of the search process, prospective candidates will be required to disclose any campaign contributions made to any LASERS Trustee, staff member or elected official in Louisiana who can influence the selection of an advisor or manager.

IX. Investment Manager Guidelines

Full discretion, within the parameters of the guidelines, is granted to the investment managers regarding the selection of securities, and the timing of transactions. Compliance with all guidelines must be monitored by the investment managers on a regular basis (monthly or more frequently when market conditions warrant), and based on then current market values. Securities that, at purchase, would move the portfolio out of compliance with these guidelines, based on the investment manager's most recent valuation, may not be purchased.

In the event that a portfolio moves out of compliance with these guidelines (as identified in the investment manager's regular review of the portfolio), through market conditions or other changes outside the control of the manager, the manager must bring the portfolio composition back into compliance within 45 days, or make a written request to LASERS Investment Committee for a compliance waiver.

X. Investment Manager Monitoring

General Guidelines

LASERS shall monitor and evaluate manager performance using the following resources:

- Monthly performance reports
- Quarterly Investment Performance and Portfolio Analysis

- Comprehensive Manager Reviews at the end of a manager's contract with LASERS
- Other analyses as needed

Monitoring and Verification

Certain guidelines lend themselves to straightforward manager compliance monitoring. These guidelines will be monitored using daily holdings and transaction information provided by the Fund's custodian bank. The custodian will monitor manager compliance by way of their investment policy reporting software, and shall be responsible for alerting the Staff if a manager is out of compliance.

Guidelines which do not lend themselves to straightforward manager compliance monitoring shall rely on manager supplied attestations of compliance. A guideline compliance checklist shall be reviewed every quarter to ensure that all managers have reported guideline compliance, and note instances where managers claim to be out of compliance.

Manager Evaluation

- LASERS portfolios shall be measured over various and appropriate time periods.
- A horizon of 3-7 years shall be used in measuring the long-term success of the manager.
- Shorter time periods shall be evaluated as appropriate and necessary. LASERS shall make every effort to look at all factors influencing manager performance, and attempt to discern market cyclicity from manager over/underperformance.
- On a timely basis, at least quarterly, the Board will review actual investment results achieved by each manager (with a perspective toward a three- to five-year time horizon or a peak-to-peak or trough-to-trough market cycle) to determine whether the investment managers performed satisfactorily when compared with the objectives set, and in relation to other similarly managed funds.
- Investment managers will periodically, upon request, present to the Board a portfolio review. This should include an update of the firm, current investments, their investment process, performance and their outlook for the market.
- The Board will periodically assess the continued appropriateness of: (1) the manager structure; (2) the allocation of assets among the managers; and (3) the investment objectives for LASERS assets.
- The Board may appoint investment consultants to assist in the ongoing evaluation process. The consultant(s) selected by the Board are expected to be familiar with the investment practices of similar retirement plans and will be responsible for suggesting appropriate changes in LASERS investment program over time.

Schedules of Investment Expenses and Asset Allocation

By Investment Manager Classificationⁱ

For Year Ended June 30, 2021

Investment Type	Fair Value	Fees	Asset Allocation	
			Target	Actual
Fixed Income Managers				
Domestic Fixed Income	\$ 664,734,294	\$ 1,503,047	3.0%	4.8%
International Fixed Income	1,886,726,986	20,883,945	18.0%	13.6%
Total Fixed Income	2,551,461,280	22,386,992	21.0%	18.4%
Equity				
Domestic Equity	4,361,324,540	1,146,983	31.0%	31.4%
International Equity	3,486,559,062	13,494,344	23.0%	25.1%
Total Equity	7,847,883,602	14,641,327	54.0%	56.5%
Alternative Investments	3,298,280,425	59,601,309	24.0%	23.8%
Cash	180,847,822	33	1.0%	1.3%
Self-Directed Plan/ORPⁱⁱ	645,406,623	1,383,178	N/A	N/A
Total	\$ 14,523,879,752	\$ 98,012,839	100.0%	100.0%

Other Investment Expenses

Investment Administrative Expenses	2,560,588
Investment Consultant Fees	774,500
Research and Data Services	681,339
Investment Performance Management	112,717
Investment Legal Expenses	11,059
Global Custodian Fees	160,190
Securities Lending Management Fees	605,387
Total Investment Expenses	\$ 102,918,619

ⁱFinancial Statements are prepared on the basis of security class. As specified in Manager Guidelines, at any given point in time, a money manager may have securities not specifically within their defined investment manager type due to market conditions.

ⁱⁱSelf-Directed and Optional Retirement Plans are managed by a third party and are not included in the target asset allocation of LASERS main plan.

Schedules of Investment Expenses and Asset Allocation

By Investment Manager Classificationⁱ

For Year Ended June 30, 2020

Investment Type	Fair Value	Fees	Asset Allocation	
			Target	Actual
Fixed Income Managers				
Domestic Fixed Income	\$ 586,493,605	\$ 1,615,985	6.0%	5.5%
International Fixed Income	1,471,593,025	13,273,531	10.0%	13.9%
Total Fixed Income	2,058,086,630	14,889,516	16.0%	19.4%
Equity				
Domestic Equity	2,185,973,930	1,031,324	23.0%	20.6%
International Equity	2,849,457,080	12,614,199	32.0%	26.9%
Total Equity	5,035,431,010	13,645,523	55.0%	47.5%
Alternative Investments	3,028,015,501	58,349,249	29.0%	28.5%
Cash	489,689,164	-	0.0%	4.6%
Self-Directed Plan/ORPⁱⁱ	606,966,904	1,299,649	N/A	N/A
Total	\$ 11,218,189,209	\$ 88,183,937	100.0%	100.0%

Other Investment Expenses

Investment Administrative Expenses	2,527,080
Investment Consultant Fees	753,000
Research and Data Services	650,356
Investment Performance Management	105,562
Investment Legal Expenses	54,594
Global Custodian Fees	142,904
Securities Lending Management Fees	9,298,755
Total Investment Expenses	\$ 101,716,188

ⁱFinancial Statements are prepared on the basis of security class. As specified in Manager Guidelines, at any given point in time, a money manager may have securities not specifically within their defined investment manager type due to market conditions.

ⁱⁱSelf-Directed and Optional Retirement Plans are managed by a third party and are not included in the target asset allocation of LASERS main plan.

Largest Equity Holdings

June 30, 2021

	Shares	Stock Description	Fair Value
1)	1,545,000	Apple Inc.	\$ 211,603,200
2)	725,500	Microsoft Corp.	\$ 196,537,950
3)	43,800	Amazon.com Inc.	\$ 150,679,008
4)	230,800	Facebook Inc.	\$ 80,251,468
5)	28,800	Alphabet Inc. (CL-C)	\$ 72,182,016
6)	28,900	Alphabet Inc. (CL-A)	\$ 70,567,731
7)	88,500	Tesla Inc.	\$ 60,153,450
8)	71,000	Nvidia Corp.	\$ 56,807,100
9)	133,900	PayPal Holdings Inc.	\$ 39,029,172
10)	118,200	Berkshire Hathaway Inc.	\$ 32,850,144

Largest Debt Holdings

June 30, 2021

	Par Value	Bond Description	Fair Value
1)	18,295,000	Commit To Pur FNMA SF MTG 2.000% 1-Sep-2051	\$ 18,422,882
2)	45,770,000	China Government Bond 1.990% 9-Apr-2025	\$ 6,851,067
3)	80,770,000,000	Indonesia Treasury Bond 8.375% 15-Mar-2024	\$ 6,081,578
4)	108,130,000	Mexican Bonos 7.500% 3-Jun-2027	\$ 5,659,874
5)	109,420,000	Republic Of South Africa Government 6.250% 31-Mar-2036	\$ 5,435,612
6)	33,660,000	China Government Bond 3.130% 21-Nov-2029	\$ 5,205,450
7)	4,000,000	FedEx Corp 4.900% 15-Jan-2034	\$ 4,995,760
8)	17,528,000,000	Colombian Treasury Bonds 7.500% 26-Aug-2026	\$ 4,969,914
9)	3,500,000	Valero Energy Corp 7.500% 15-Apr-2032	\$ 4,925,725
10)	4,000,000	Walgreens Boots Alliance Inc 4.800% 18-Nov-2044	\$ 4,783,120

The list of largest holdings excludes commingled funds. A complete list of LASERS portfolio holdings is available upon request.

Largest Alternative Investment Holdings

June 30, 2021

	Description		Fair Value
1)	Prisma Pelican Fund, L.L.C.	\$	285,813,042
2)	Entrust Magnolia Partners, L.P. - Class A	\$	203,836,407
3)	Cerberus Institutional Partners VI, L.P.	\$	149,143,571
4)	Vista Equity Partners Fund VI, L.P.	\$	144,623,070
5)	Siguler Guff Pelican Global Emerging Markets	\$	116,771,409
6)	GTCR Fund XI, L.P.	\$	115,594,422
7)	Doubleline Mortgage Opportunities Fund	\$	106,271,644
8)	Insight Partners X, L.P.	\$	103,038,522
9)	Vista Equity Partners Fund V, L.P.	\$	96,443,324
10)	Insight Partners XI, L.P.	\$	94,832,446

Largest Louisiana Holdings

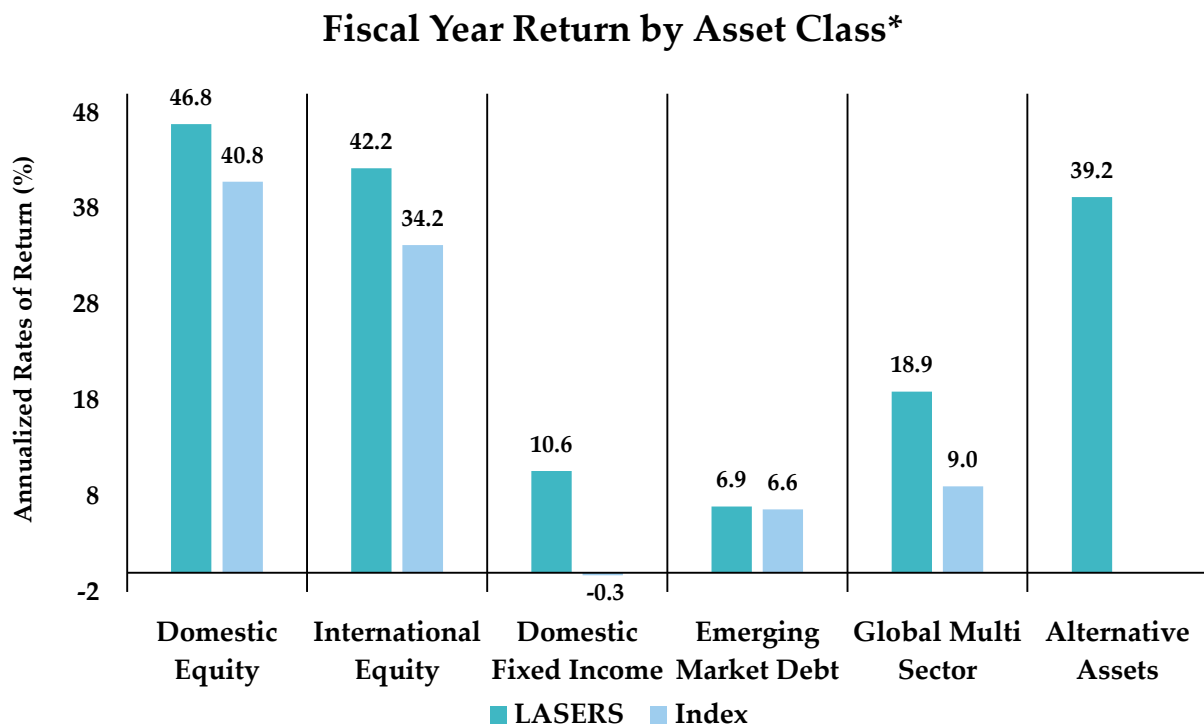
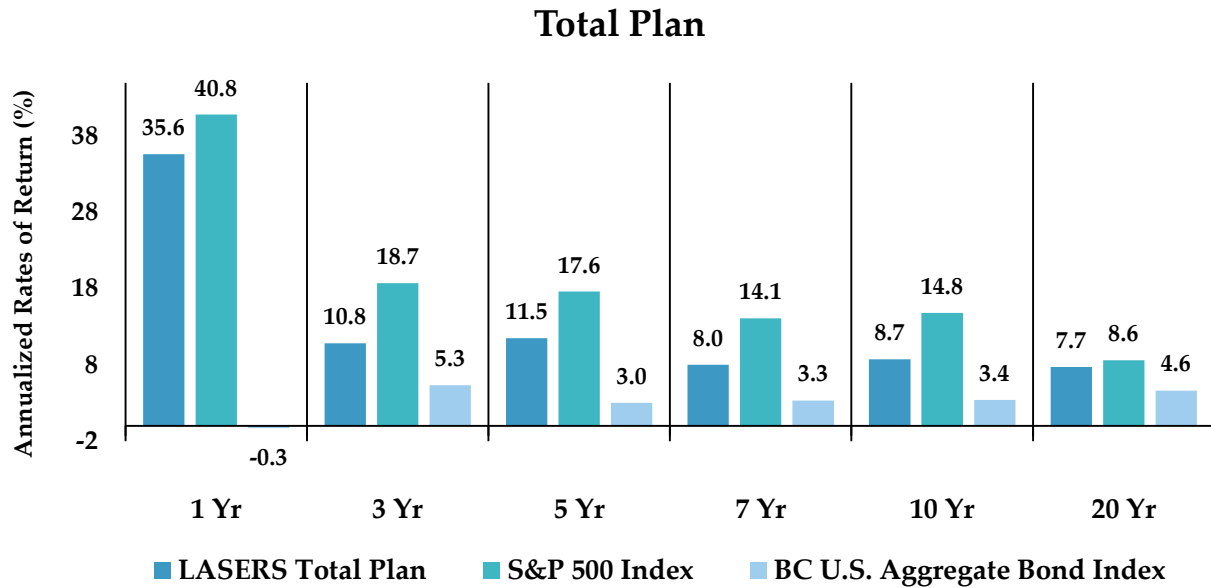
June 30, 2021

	Company		Fair Value
1)	Bernhard LLC	\$	17,470,707
2)	United Weld Holdings LP	\$	14,652,457
3)	Brown & Root Industrial Services LLC	\$	7,713,691
4)	Lemoine Services Holdings, LP	\$	6,591,922
5)	Lamar Advertising Co.	\$	2,778,581
6)	Lumen Technologies Inc.	\$	2,584,261
7)	National Water Infrastructure Holdings, LP	\$	2,461,395
8)	Amedisys Inc.	\$	2,057,412
9)	LHC Group Inc.	\$	1,642,132
10)	Entergy Corp.	\$	1,433,441

LASERS supports Louisiana by investing in companies that impact local economies. For the fiscal year ended June 30, 2021, LASERS invested approximately \$380 million in Louisiana stocks, bonds, and private markets. The above table illustrates the top ten companies headquartered in Louisiana in which LASERS invests.

Rates of Returnⁱ

June 30, 2021



*The index for each asset class in the graph is listed in the table on the following page.

Rates of Returnⁱ (Continued)

June 30, 2021

	Annual Returns			Annualized Rates of Return				
	2021	2020	2019	3 Yr	5 Yr	7 Yr	10 Yr	20 Yr
Total Fund								
LASERS Total Plan	35.6%	-3.8%	4.4%	10.8%	11.5%	8.0%	8.7%	7.7%
S&P 500 Index	40.8%	7.5%	10.4%	18.7%	17.6%	14.1%	14.8%	8.6%
BC U.S. Aggregate Bond Index	-0.3%	8.7%	7.9%	5.3%	3.0%	3.3%	3.4%	4.6%
Domestic Equity								
LASERS Domestic Equity	46.8%	-2.9%	3.5%	13.8%	15.0%	11.7%	13.0%	8.7%
S&P 500 Index	40.8%	7.5%	10.4%	18.7%	17.6%	14.1%	14.8%	8.6%
International Equity								
LASERS International Equity	42.2%	-8.0%	1.5%	9.9%	11.6%	6.0%	6.0%	7.4%
MSCI World Ex-USA Index	34.2%	-5.0%	1.8%	9.1%	10.9%	5.4%	6.2%	6.4%
Domestic Fixed Income								
LASERS Domestic Fixed Income	10.6%	2.9%	7.0%	6.8%	6.1%	5.0%	6.3%	7.2%
BC U.S. Aggregate Bond Index	-0.3%	8.7%	7.9%	5.3%	3.0%	3.3%	3.4%	4.6%
Emerging Market Debt								
LASERS Emerging Market Debt	6.9%	-1.4%	6.2%	3.8%	3.0%	-0.2%	N/A	N/A
J.P. Morgan GBI-EM Global Diversified Index	6.6%	-2.8%	9.0%	4.1%	3.2%	0.2%	N/A	N/A
Global Multi-Sector								
LASERS Global Multi-Sector	18.9%	-0.1%	6.7%	8.2%	8.1%	N/A	N/A	N/A
50/50 Bloomberg Barclays Global Aggregate Index/ Credit Suisse High Yield Index	9.0%	1.4%	6.5%	5.6%	4.8%	N/A	N/A	N/A
Alternative Assets								
LASERS Alternative Assets ⁱⁱ	39.2%	-2.6%	7.5%	13.4%	12.3%	9.2%	9.1%	6.3%

ⁱ Investment Performance calculated for periods over one year use monthly returns geometrically linked to calculate annualized “time-weighted” rates of return. All returns presented are calculated gross-of-fees one quarter in arrears. Investment Performance does not include the Self-Directed Plan and Optional Retirement Plan Funds.

ⁱⁱ Benchmark information is not available for alternative assets.

Schedule of Brokerage Commissions Paid

For the Period Ended June 30, 2021

Brokerage Firm	Commissions	Shares Traded	Average Commission Per Share
Goldman Sachs & Co.	\$ 404,148	58,245,577	\$ 0.007
Merrill Lynch Pierce Fenner Smith	151,956	191,881,601	0.001
UBS Securities LLC	69,976	63,134,272	0.001
JonesTrading Institutional Services LLC	66,840	13,395,433	0.005
Barclays Capital	53,858	15,471,524	0.003
Sanford C. Bernstein and Co., Inc.	47,779	19,574,535	0.002
JP Morgan Securities Inc.	34,994	18,164,184	0.002
Citigroup Global Markets, Ltd.	26,599	33,909,226	0.001
RBC Capital Markets	24,923	7,651,266	0.003
Morgan Stanley & Co. Inc.	22,069	9,673,546	0.002
Jefferies Group LLC	19,234	20,487,249	0.001
Credit Suisse	18,209	12,244,426	0.001
Nomura Securities International, Inc.	17,182	5,824,024	0.003
Daiwa Securities Group	15,963	10,163,563	0.002
BofA Securities, Inc.	15,385	31,036,964	0.000
National Financial Services Corporation	14,747	864,603	0.017
Cowen Inc.	13,390	1,885,062	0.007
Exane	12,393	1,666,922	0.007
Other Commissions Less than \$10,000	103,185	100,071,556	0.001
	\$ 1,132,830	615,345,533	\$ 0.002

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ACTUARIAL SECTION



Photos: (L) LASERS Board of Trustees, 2004.
(R) Old Peabody Hall in 1945, LASERS second location after leaving the State Capitol.
(Top) LASERS Certification Letter from first Actuary, W.E. Groves, 1950.

Since the establishment of LASERS, actuarial calculations and processes have served as the cornerstones to ensure sound pension funding policies. LASERS actuaries assess and project the financial condition of the System, and determine how much should be contributed each year to provide for the secure funding of benefits in a systematic fashion.

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September 23, 2021

Board of Trustees
Louisiana State Employees' Retirement System
Post Office Box 44213
Baton Rouge, Louisiana 70804-4213

Dear Board Members:

Pursuant to your request, we have completed the annual actuarial valuation for the Louisiana State Employees' Retirement System as of June 30, 2021. The valuation was prepared relying on the data submitted by the Retirement System and the actuarial assumptions adopted by the Board of Trustees and reflects the current benefit structure on the valuation date. The primary purpose of the actuarial valuation is to determine the funding requirements of the members and participating employers, to describe the current financial condition of the System, and to analyze changes in the System's funding condition since the prior valuation. In addition, the report provides various summaries of data. The report may not be appropriate for other purposes. The financial reporting requirements of the Governmental Accounting Standards Board (GASB) Statements No. 67/68 in total for the plan are included in the June 30, 2021 Actuarial Valuation Report.

Funding Objective

The funding objective of the Retirement System was established by Constitutional Amendment Number 3 during the 1987 Legislative Session, which requires the current normal cost, determined in accordance with the prescribed statutory funding method, to be fully funded, and requires the unfunded accrued liability as of June 30, 1988, to be fully liquidated by 2029 with subsequent changes in unfunded liabilities amortized as specified by statute.

Progress Toward Realization of the Funding Objective

The employer contributions determined by the June 30, 2021 actuarial valuation and the member contributions, paid as a percentage of payroll, are expected to be sufficient to achieve the funding objective set forth above. The progress toward achieving the intended funding objectives can be measured by funding level, determined as the ratio of actuarial assets to the actuarial accrued liabilities. The current funded ratio is 66.0%. If the experience develops as assumed, and if contribution requirements are met, this ratio is expected to increase over time and the unfunded accrued liabilities will be paid off according to the constitutional and statutory funding objectives of the plan.

The results of the current valuation indicate that the aggregate employer contribution rate for the plan year commencing July 1, 2021, should have been set at 40.6% of payroll, which is an increase from the 40.2% projected aggregate rate set by the Public Retirement Systems' Actuarial Committee.

The actuarial value of assets is determined as the market value of assets adjusted to gradually recognize investment gains and losses relative to the net assumed investment return, over a five-year period in 20% increments. The adjusted asset value is subject to corridor limits of 80% to 120% of the market value of assets. The objective of the asset valuation method is to smooth the volatility due to market conditions on the measurement date. The actuarial value of assets for the plan year ending on June 30, 2021, is \$13,432,636,820. After adjusting for the Experience Account balance of \$85,173,827 the valuation assets used for funding purposes is \$13,347,462,993.

Data

In performing the June 30, 2021, valuation, we have relied upon the employee data and financial information provided by the administrative staff of the Louisiana State Employees' Retirement System. Participant data was not audited but was reviewed for reasonableness and consistency relative to data used for prior year valuations. Plan assets were compared with information furnished for the prior plan year's valuation and reviewed for consistency.

Methods and Assumptions

The present values shown in the June 30, 2021, actuarial valuation and supporting statistical schedules of this certification, which comprise all the schedules of the Actuarial Section in the annual Financial Report, have been prepared in accordance with the actuarial methods specified in Louisiana Revised Statutes Title 11 Section 22(6) and assumptions which are appropriate for the purposes of this valuation. Valuation results presented in this report are based on the Entry Age Normal cost method as prescribed by state law.

The Board reduced the discount rate from 7.55% to 7.40%, effective June 30, 2021. The Board has also adopted a reduction in the discount rate to 7.25%, effective June 30, 2022.

Following the completion of an experience study for the period July 1, 2013 through June 30, 2018, the Board adopted a revised set of actuarial assumptions to better project plan experience based on the results of the study. The following actuarial assumptions were revised, effective June 30, 2019: retirement/DROP rates, inflation, salary increases, withdrawal rates, disability incidence rates, and mortality rates. The inflation and salary increase assumptions were reduced effective June 30, 2020. Sample rates from the revised assumption tables are included in the supporting schedules.

The actuarial assumptions and methods used are within the parameters set forth by the Government Accounting Standards Board (GASB) Statement No. 67 and were employed in the development of the schedules listed below for the Financial Section of this report.

Supporting Schedules

The following supporting schedules were prepared by the system's actuary for the Comprehensive Annual Financial Report:

Actuarial Section

- Summary of Actuarial Methods and Assumptions
- Summary of Unfunded Actuarial Liabilities/Solvency Test
- Summary of Actuarial and Unfunded Actuarial Liabilities
- Reconciliation of Unfunded Actuarial Liabilities
- Membership Data
- Principal Provisions of the Plan

Financial Section

- Schedules of Changes in Net Pension Liability
- Schedules of Employers' Net Pension Liability
- Schedules of Employer Contributions

We certify that, to the best of our knowledge, the methods and assumptions comply with generally recognized and accepted actuarial principles and practices set forth by the American Academy of Actuaries, are reasonable and represent our best estimate of the funding requirement to achieve the Retirement System's Funding Objective, unless otherwise noted. Shelley is an Associate in the Society of Actuaries and Pat is a Fellow in the Society of Actuaries. We are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

Respectfully submitted,

FOSTER & FOSTER INC.



Shelley R. Johnson, ASA, MAAA



D. Patrick McDonald, FSA, EA, MAAA, FCA

Summary of Actuarial Methods and Assumptions

The actuarial cost method is prescribed in Section 22 of Title 11 of the Louisiana Revised Statutes. The asset valuation method was adopted by the Board of Trustees of the Louisiana State Employees' Retirement System of Louisiana (LASERS). The assumptions outlined below were adopted by the LASERS Board of Trustees based on the recommendations presented to the Board following the completion of the 2014-2018 actuarial experience study.

I. General Actuarial Method

1. Actuarial Cost Method/Amortization of Changes in UAL

The Actuarial cost method, Entry Age Normal, is prescribed in Section 22 of Title 11 of the Louisiana Revised Statutes. Non-investment actuarial gains and losses and investment experience losses are amortized over 30 years with level payments. Investment gains up to the statutory threshold are allocated to the Original Amortization Base and Experience Account Amortization Base. Any remaining gains are amortized for 30 years with level payments. One half of the gain is then amortized as a loss over a ten-year amortization period and the funds are allocated to the Experience Account to fund future permanent benefit increases that have not yet been granted. Further details are provided below.

Historical treatment of changes in UAL:

The unfunded accrued liability on June 30, 1988, also referred to as the initial unfunded accrued liability, or initial UAL, was amortized over a forty-year period commencing in 1989. The amortization payment initially reflected a 4% increase for the first five years, reducing by 0.5% at the end of each five-year period, but has subsequently been revised by Acts of the Louisiana Legislature as described below. Changes in unfunded accrued liabilities occurring after June 30, 1988, were originally amortized as a level dollar amount as follows:

	Act 81	
	Effective	As Amended Act 257
	6/30/88	Effective 6/30/92
Experience Gains/Losses	15 years	Later of 2029 or 15 years
Actuarial Assumptions	30 years	Later of 2029 or 30 years
Actuarial Methods	30 years	Later of 2029 or 30 years
Benefit Changes	Determined by enabling statute	

Act 257 of 1992 further amended the amortization schedule to reflect a 4.5% payment increase over the remaining amortization period.

Act 588 of 2004 re-amortized changes in liabilities occurring from 1993 thru 1998 as a level dollar payment to 2029. Amortization periods for changes in liabilities beginning with 1999 were extended to a thirty-year period from the date of occurrence, with a 4.5% increasing payment schedule.

Amortization periods for changes in liabilities beginning with 2004 are extended to a thirty-year period from the date of occurrence, paid as a level dollar amount.

Act 484 of 2007 and resulting Constitutional Amendment requires increases in UAL due to altered benefit provisions by legislative enactment to be amortized over a ten-year period with level payments.

Act 497 of 2009 consolidates the outstanding balance of all amortization schedules established on or before July 1, 2008, except those established due to an increase in benefits after 2007, into two amortization schedules, the Original Amortization Base (OAB) and the Experience Account Amortization Base (EAAB), beginning July 1, 2010. The outstanding balance of the OAB was credited with funds from the Initial UAL fund, excluding the subaccount of this fund. The OAB will be paid off by plan year ending June 30, 2029. The EAAB was credited with funds from the Initial UAL subaccount, which were transferred from the Employee Experience Account on June 30, 2009. The EAAB will be paid off by plan year ending June 30, 2040. Payments increased according to the requirements of Act 497, and beginning July 1, 2018, OAB payments will increase by 2.0% per year, and EAAB payments will be level.

Additionally, Act 497 changed the amortization of investment gains relative to the discount rate. Previously, one-half of any investment gain was amortized over a thirty-year period with level payments and one-half was credited to the Experience Account. Act 497 specifies that the first \$100 million of any investment experience gain will be credited to the OAB and EAAB, with re-amortization of these schedules. One-half of the remaining gain is credited to the Experience Account, up to the maximum limit of this account and any remaining gain is amortized over a thirty-year period with level payments.

Employer contribution requirements for normal costs and amortization of the unfunded accrued liabilities are determined as a percentage of payroll. The discrepancy between dollars generated by percent of payroll versus the required dollar amount is treated as a shortfall credit/debit. The five-year level amortization payment of the debit/credit is applied to the following year's contribution requirement. Act 497 provided that contribution variance credits through plan year 2016/2017 would be credited to the OAB. Subsequent overpayments through plan year 2039/2040 will be credited to the EAAB.

Act 399 of 2014 changed the allocation of investment gains to existing schedules and to the Experience Account and changed the amortization of any remaining investment gains.

Act 95 of 2016 modified the provisions of Act 399. Investment gains are first allocated to the OAB and EAAB, without re-amortization, up to the \$100 million threshold amounts, indexed beginning June 30, 2016. By not re-amortizing, gains applied to these schedules result in earlier pay-off of these schedules. One-half of any remaining gains are credited to the Experience Account up to the statutory cap. Any remaining gains are then amortized over 30 years with level payments. Beginning in 2016, the full investment gain remaining after the allocation to the OAB and EAAB will be amortized over 30 years, and any gains credited to the Experience Account will be amortized as an offsetting loss over a ten-year period. Once the system attains a 70% funded ratio, all future gains and losses will be amortized over 20 years. The OAB was re-amortized with level-dollar payments to 2029 on June 30, 2021. If the System is less than 80% funded, the net remaining liability of the OAB and EAAB shall be re-amortized after application of the "threshold allocations" in Fiscal Year

2019/2020 and in every fifth fiscal year thereafter. Once the system attains an 80% funded ratio, the OAB and EAAB will be re-amortized following allocations of “threshold allocations” or contribution variance surpluses. Act 399 extended the application of the threshold after the OAB and EAAB are paid off and provides for the allocation of funds.

Statutory provisions pertaining to LASERS provide for the automatic transfer of a portion of excess investment earnings to the Experience Account to potentially fund future post-retirement benefit increases. Since the law does not provide for automatic post-retirement benefit increases, the liabilities do not explicitly include future retiree benefit increases. However, since a portion of investment earnings will be used to fund potential future ad hoc benefit increases, the accrued benefits are discounted using a net discount rate. The net discount rate is determined as the expected long-term return net of investment expenses, less the expected return used to provide for future retiree benefit increases. Since the discount rate for funding purposes reflects LASERS specific gain sharing provisions, the assumptions recognize that investment earnings will be diverted to fund the ad hoc increases.

2. Asset Valuation Method

The actuarial value of assets is determined as the market value of assets adjusted to gradually recognize investment gains and losses relative to the net assumed investment return, over a five-year period in 20% increments, and is subject to Corridor Limits of 80% to 120% of the market value of assets.

3. Valuation Data

The administrative staff of LASERS furnishes the actuary with demographic data relating to the active life membership and retired life members. Retired life members included inactive members who are entitled to a deferred reciprocal or vested benefit. The administrative staff of LASERS provides the book value and fair value of system assets. All data is reviewed for reasonableness and consistency from year to year but is not audited by the actuary.

II. Economic Assumptions

1. Actuarially Assumed Rate of Return

The June 30, 2021 valuation for funding and GASB reporting was prepared with a discount rate of 7.40%. The discount rate for funding purposes reflects the assumed investment rate of return, net of investment expenses, and net of investment gains expected to be allocated to the Experience Account to fund permanent benefit increases. A long-term (thirty-year) average of 35 basis points is assumed to be transferred to the Experience Account annually. By excluding investment returns to be used to fund future permanent benefit increases, the discount rate for funding purposes represents the expected return on investments to be used to fund regular plan benefits. The assumed long-term geometric average nominal rate of return inherent in the funding valuation is 7.75%. For GASB reporting purposes, the discount rate reflects the assumed investment rate of return net of investment expenses.

2. Employee Salary Increases

Incorporated in the following salary scales (shown for periodic durations but representing full range of assumptions) is an explicit 2.30% inflation assumption. The following salary scale is based upon years of service:

Duration (Years)	Regular State Employees	Judges	Corrections, Haz Duty, Wildlife
0	12.80%	5.05%	13.80%
5	4.90%	2.55%	5.55%
10	3.60%	2.55%	4.80%
15	3.20%	2.55%	3.55%
20	3.00%	2.55%	3.55%
25	3.00%	2.55%	3.55%
30	3.00%	2.55%	3.55%

III. Demographic Assumptions

1. Mortality Assumption

Pre-retirement deaths and post-retirement life expectancies are projected in accordance with the following mortality tables and adjustment factors, based the mortality patterns observed in the 2014-2018 experience study.

General Active Employees

Males	RP-2014 Blue Collar Employee * 0.978
Females	RP-2014 Blue Collar Employee * 1.144

Public Safety Active Employees

Males	RP-2014 Blue Collar Employee * 1.005
Females	RP-2014 Blue Collar Employee * 1.129

General Retiree/Inactive Employees

Males	RP-2014 Blue Collar Annuitant * 1.280
Females	RP-2014 White Collar Annuitant * 1.417

Public Safety Retiree/Inactive Employees

Males	RP-2014 Blue Collar Annuitant * 1.185
Females	RP-2014 Blue Collar Annuitant * 1.017

Disability Retirees

Males	RP-2000 Disability Retiree * 1.009
Females	RP-2000 Disability Retiree * 1.043

Mortality assumptions for active and regular retirees include adjustments for expected future mortality improvement using the MP-2018 Generational Improvement Scale. Mortality assumptions for Disability Retirees include no adjustments for expected future mortality improvement, based on plan experience.

2. Disability Assumption

Rates of total and permanent disability were projected by age in accordance with the 2014-2018 disability experience of the Retirement System. Sample rates are illustrated by employment classification.

AGE	Regular State		Corrections, Haz Duty, Wildlife
	Employees	Judges	
25	0.01%	0.00%	0.01%
30	0.01%	0.00%	0.05%
35	0.05%	0.00%	0.13%
40	0.10%	0.00%	0.17%
45	0.15%	0.02%	0.28%
50	0.22%	0.02%	0.55%
55	0.30%	0.02%	0.80%

3. Termination Assumptions

Voluntary withdrawal rates are derived from the 2014-2018 termination experience study. Sample rates are illustrated by employment classification below.

Age	Regular State Employees Years of Service						Judges
	< 1	1	2-3	4-6	7-9	10+	
25	32.5%	27.0%	20.0%	16.0%	10.5%	8.0%	1.20%
30	29.0%	23.0%	18.0%	13.3%	10.5%	8.0%	1.20%
35	29.0%	22.0%	18.0%	13.3%	8.0%	5.5%	1.20%
40	28.0%	18.0%	15.0%	13.0%	8.0%	5.5%	1.20%
45	25.0%	18.0%	14.0%	12.5%	8.0%	5.0%	1.20%
50	25.0%	18.0%	12.5%	11.5%	7.5%	5.0%	1.20%

Age	Corrections/Haz Duty Years of Service							Wildlife Years of Service	
	<1	1	2	3-4	5-7	8-9	10+	<6	6+
25	48.0%	30.5%	30.0%	24.0%	15.5%	6.4%	2.8%	7.6%	0.5%
30	43.5%	25.5%	24.0%	20.0%	13.5%	6.4%	2.8%	7.6%	0.5%
35	43.5%	25.5%	20.0%	20.0%	10.0%	6.4%	2.8%	7.6%	0.5%
40	41.0%	21.0%	20.0%	15.5%	9.0%	6.4%	2.8%	7.6%	0.5%
45	32.0%	17.0%	12.0%	15.5%	9.0%	6.4%	2.8%	7.6%	0.5%
50	27.5%	17.0%	12.0%	10.0%	9.0%	6.4%	2.8%	7.6%	0.5%

For members terminating with ten or more years of service, it is assumed that 80% will not withdraw their accumulated employee contributions.

4. Retirement/DROP Assumptions

Retirement rates and DROP probabilities were projected based upon the 2014-2018 experience study. At eligibility, including eligibility for a reduced early retirement benefit, the probability of retirement or DROP is determined based upon the Retirement/DROP assumptions, based on the most recent experience study. Sample rates are illustrated by employment classification below:

Regular Members					
Years of Service					
Age	< 10	10-19	20-24	25-29	30+
45	0%	5%	5%	5%	0%
50	0%	10%	10%	10%	20%
55	0%	18%	18%	60%	60%
60	35%	35%	35%	35%	35%
65	20%	20%	20%	20%	20%
70	18%	18%	18%	18%	18%

Age	Judges			Corrections/Haz/Wildlife	
	Years of Service			Years of Service	
	<12	12-17	18+	< 10	10+
45	0.0%	0.0%	6.8%	0.0%	23.5%
50	0.0%	0.0%	6.8%	0.0%	23.5%
55	0.0%	20.8%	11.5%	0.0%	23.5%
60	10.8%	9.0%	23.8%	50.0%	24.0%
65	10.8%	18.2%	17.3%	32.5%	19.6%
70	10.8%	10.5%	12.2%	32.5%	19.6%

IV. Other Assumptions

Administrative Expenses:

Administrative expenses are assumed to be \$17,600,000 annually and are funded by employer contributions as a percentage of projected payroll.

Summary of Unfunded Actuarial Liabilities/Solvency Test

(Dollar Amounts in Millions)

	(1)	(2)	(3)		Portion of Actuarial Accrued Liabilities Covered By Assets		
Valuation Date	Active Member Contribution	Retirees Term. Vested Inactive	Active Members Employer Fin. Portion	Actuarial Valuation Assets	(1)	(2)	(3)
2012	\$ 1,649.7	\$ 11,030.2	\$ 3,478.0	\$ 9,026.4	100%	67%	0%
2013	\$ 1,578.0	\$ 11,981.3	\$ 2,622.9	\$ 9,740.9	100%	68%	0%
2014	\$ 1,516.3	\$ 13,072.6	\$ 3,288.8	\$ 10,606.5	100%	70%	0%
2015	\$ 1,513.0	\$ 13,417.1	\$ 3,286.6	\$ 11,318.4	100%	73%	0%
2016	\$ 1,527.3	\$ 13,961.6	\$ 3,087.4	\$ 11,630.8	100%	72%	0%
2017	\$ 1,538.6	\$ 13,977.8	\$ 3,275.7	\$ 11,976.8	100%	75%	0%
2018	\$ 1,555.0	\$ 14,244.0	\$ 3,304.6	\$ 12,360.5	100%	76%	0%
2019	\$ 1,582.7	\$ 14,502.0	\$ 3,442.9	\$ 12,520.9	100%	75%	0%
2020	\$ 1,607.7	\$ 14,803.6	\$ 3,280.1	\$ 12,617.2	100%	74%	0%
2021	\$ 1,622.3	\$ 15,168.6	\$ 3,429.4	\$ 13,347.5	100%	77%	0%

Summary of Actuarial and Unfunded Actuarial Liabilities

(Dollar Amounts in Millions)

Valuation Date	Actuarial Accrued Liabilities (AAL)	Actuarial Valuation Assets	Ratio Of Assets To AAL	Unfunded AAL (UAAL)	Active Member Payroll	UAAL As Percentage of Active Payroll
2012	\$ 16,157.9	\$ 9,026.4	55.86%	\$ 7,131.5	\$ 2,341.7	304.5%
2013	\$ 16,182.2	\$ 9,740.9	60.20%	\$ 6,441.3	\$ 1,952.0	330.0%
2014	\$ 17,877.7	\$ 10,606.5	59.33%	\$ 7,271.2	\$ 1,813.8	400.9%
2015	\$ 18,216.7	\$ 11,318.4	62.13%	\$ 6,898.3	\$ 1,856.7	371.5%
2016	\$ 18,576.3	\$ 11,630.8	62.61%	\$ 6,945.5	\$ 1,842.3	377.0%
2017	\$ 18,792.1	\$ 11,976.8	63.73%	\$ 6,815.3	\$ 1,821.9	374.1%
2018	\$ 19,103.6	\$ 12,360.5	64.70%	\$ 6,743.1	\$ 1,864.0	361.7%
2019	\$ 19,527.6	\$ 12,520.9	64.12%	\$ 7,006.8	\$ 1,952.5	358.9%
2020	\$ 19,691.4	\$ 12,617.2	64.07%	\$ 7,074.2	\$ 1,999.4	353.8%
2021	\$ 20,220.3	\$ 13,347.5	66.01%	\$ 6,872.9	\$ 2,004.1	342.9%

Reconciliation of Unfunded Actuarial Liabilities

(Dollar Amounts in Thousands)

	Fiscal Year Ending			
	2021	2020	2019	2018
Unfunded Actuarial Liability at Beginning of Fiscal Year (7/1)	\$ 7,074,190	\$ 7,006,759	\$ 6,743,120	\$ 6,815,313
Interest on Unfunded Liability	534,101	532,514	515,849	524,779
Investment Experience (excl. change in AVM) (gains) decreases UAL	(272,802)	430,536	285,780	20,165
Change in Asset Valuation or Actuarial Cost Method	-	-	-	-
Plan Experience (gains) decreases UAL	5,948	(150,589)	95,572	(17,939)
Employer Amortization Payments (payments) decreases UAL	(756,073)	(727,193)	(648,891)	(662,437)
Employer Contribution Variance (excess contributions) decreases UAL	(51,401)	(54,096)	(44,736)	(16,984)
Side Fund Allocation(s) (distributions) decreases UAL	-	-	-	-
Other - Miscellaneous gains and losses from transfers, assumption changes, or Acts of the Legislature	338,895	36259	60,065	80,223
Unfunded Actuarial Liability at End of Fiscal Year (6/30)	<u>\$ 6,872,858</u>	<u>\$ 7,074,190</u>	<u>\$ 7,006,759</u>	<u>\$ 6,743,120</u>

Membership Data

Data regarding the membership of the System for valuation were furnished by the System.

	2021		2020	
Active Members	Census	Avg. Sal.	Census	Avg. Sal.
Regular Members	32,231	\$ 50,562	32,673	\$ 49,245
Legislators	4	126,624	4	116,355
Judges	322	150,374	299	150,110
Appellate Law Clerks	93	89,040	101	88,530
Wildlife Agents	124	76,593	130	75,345
Corrections	1,218	57,973	1,363	55,533
Peace Officers	32	64,551	35	64,549
Alcohol Tobacco Control	7	62,676	9	63,616
Bridge Police	3	66,365	3	65,466
Hazardous Duty	2,995	41,678	3,182	40,301
Harbor Police	16	58,032	19	55,407
Active After DROP	1,527	64,243	1,669	64,512
Total	38,572	\$ 51,684	39,487	\$ 50,365

Valuation Salaries

\$2,004,062,861

\$1,999,414,595

Inactive Members	2021	2020
Due Refunds	57,464	55,676
Terminated Vested	3,724	3,691

	2021		2020	
Annuitants and Survivors	Census	Avg. Ben.	Census	Avg. Ben.
Retirees	41,449	\$ 28,340	41,271	\$ 27,712
Disabilities	2,000	14,819	2,091	14,677
Survivors	6,086	18,281	5,979	17,652
DROP	1,311	37,323	1,367	35,371
Total	50,846	\$ 26,836	50,708	\$ 26,195

Historical Membership Data

(Dollar Amounts in Thousands)

History of Active Membership Data for Last 10 Years

Year Ending 6/30	Number of Participating Employers	Number of Active Members	Percentage Change In Membership	Annual Active Member Payroll*	Annual Active Member Avg. Payroll	Percentage Change in Avg. Payroll
2012	362	52,352	-4.69%	\$ 2,341,703	\$ 44,485	2.02%
2013	355	44,111	-15.74%	\$ 1,951,988	\$ 43,957	-1.19%
2014	368	40,321	-8.59%	\$ 1,813,759	\$ 44,680	1.64%
2015	361	40,194	-0.31%	\$ 1,856,735	\$ 45,919	2.77%
2016	351	39,284	-2.26%	\$ 1,842,286	\$ 46,657	1.61%
2017	345	39,055	-0.58%	\$ 1,821,944	\$ 46,369	-0.62%
2018	346	39,293	0.61%	\$ 1,864,035	\$ 47,143	1.67%
2019	348	39,533	0.61%	\$ 1,952,496	\$ 49,070	4.09%
2020	345	39,487	-0.12%	\$ 1,999,415	\$ 50,365	2.64%
2021	341	38,572	-2.32%	\$ 2,004,063	\$ 51,864	2.98%

History of Annuitants and Survivor Annuitant Membership for Last 10 Years

Year Ending 6/30	Total Members		Members Added		Members Removed		Average Annuity	Percent Change in Annuity
	No.	Amount*	No.	Amount*	No.	Amount*		
2012	45,299	\$ 996,167	3,191	\$ 98,955	1,603	\$ 26,405	\$ 21,991	4.1%
2013	47,517	\$ 1,076,245	3,929	\$ 113,668	1,711	\$ 33,590	\$ 22,650	3.0%
2014	48,778	\$ 1,135,847	2,944	\$ 81,624	1,683	\$ 22,022	\$ 23,286	2.8%
2015	49,325	\$ 1,170,269	1,785	\$ 52,052	1,238	\$ 17,630	\$ 23,725	1.9%
2016	49,810	\$ 1,217,859	1,597	\$ 46,910	1,112	\$ 17,318	\$ 24,450	3.1%
2017	50,199	\$ 1,248,401	1,563	\$ 46,527	1,174	\$ 15,985	\$ 24,869	1.7%
2018	50,404	\$ 1,274,954	1,500	\$ 45,825	1,295	\$ 19,272	\$ 25,295	1.7%
2019	50,623	\$ 1,300,065	1,538	\$ 46,970	1,319	\$ 21,860	\$ 25,681	1.5%
2020	50,708	\$ 1,328,287	1,431	\$ 49,022	1,346	\$ 20,800	\$ 26,195	2.0%
2021	50,846	\$ 1,364,477	1,469	\$ 51,830	1,331	\$ 15,639	\$ 26,835	2.4%

* Dollar Amounts in Thousands.

Principal Provisions of the Plan

The Louisiana State Employees' Retirement System (LASERS) was enacted in 1947. Initially, the plan covered regular State Employees (Regular Plan), but membership has expanded to participating agencies, and the merger of Louisiana State University Administration Employees and the Judges Retirement System. The purpose of the plan is to provide benefits to members and their dependents at retirement or in the event of death, disability, or termination of employment. LASERS is a defined benefit plan and is funded on an actuarial reserve basis to fund benefits as prescribed by law.

I. Administration

The plan is governed by Title 11 Sections 401-699 of the Louisiana Revised Statutes. The Board of Trustees is composed of thirteen members; six elected from the active membership, three elected retired members and four ex officio members. Elected members serve staggered four-year terms. The State Treasurer, a member of the House Retirement Committee appointed by the Speaker of the House of Representatives, the chair of the Senate Retirement Committee, and the Commissioner of Administration serve as voting, ex officio members. The Board of Trustees appoints an Executive Director who is responsible for the operation of the System. The Board also retains other consultants as deemed necessary.

II. Member Contributions

Members contribute a percentage of their gross compensation, depending on plan participation:

<u>Plan</u>	<u>Current Contribution</u>
Regular Employees and Appellate Law Clerks	
Pre-Act 75 (hired before 7/1/2006)	7.5%
Post-Act 75 (hired after 6/30/2006)	8.0%
Legislators	11.5%
Judges hired before 1/1/2011	11.5%
Judges hired after 12/31/2010	13.0%
Corrections Primary and Secondary	9.0%
Wildlife	9.5%
Peace Officers & Alcohol/Tobacco Control Officers	9.0%
Bridge Police	8.5%
Hazardous Duty	9.5%
Harbor Police	9.0%
Special Legislative Employees (Sergeant at Arms, Secretary of Senate, Clerk of the House)	9.5%

III. Employer Contributions

All participating employers, regardless of plan participation, contribute a percentage of their total gross payroll to the System. The employer percentage is actuarially determined and is sufficient to pay annual accruals plus an amortization charge which liquidates the System's unfunded liability as required by law. The rate is determined annually and recommended by the Public Retirement Systems' Actuarial Committee to the State Legislature.

IV. Termination

A member who terminates covered employment, regardless of plan membership, may request a refund of the member's contributions without interest. Upon re-employment, a member may reinstate the credit forfeited through termination of previous membership by repaying the refunded contributions plus interest.

V. Retirement Benefits

Service retirement benefits are payable to members who have terminated covered employment and met both age and service eligibility requirements.

1. Normal Retirement

Regular Plan – Members hired prior to July 1, 2006, may retire with a 2.5% annual accrual rate, at age 55 with 25 years, age 60 with 10 years or at any age with 30 years of service. Members hired on or after July 1, 2006, will be eligible at age 60 with five years of service. Members hired on or after July 1, 2015 will be eligible at age 62 with five years of service.

Note: Members may retire with 20 years at any age with benefits actuarially reduced.

Judges – Judges hired prior to January 1, 2011 may retire with a 3.5% annual accrual rate at any age with 18 years of service, age 55 with 12 years, age 50 with 20 years (minimum 12 years judicial), age 65 with 10 years of service, or 70 without regard to creditable service. Judges hired on or after January 1, 2011 may retire with a 3.5% annual accrual rate with five years of service at age 60. Eligibility requirements apply to Appellate Law Clerks hired prior to January 1, 2011. Judges hired on or after July 1, 2015 may retire with a 3.5% annual accrual rate with five years of service at age 62.

Legislators, Governor, Lieutenant Governor, and State Treasurer – May retire with a 3.5% annual accrual rate with 16 years of legislative service; age 50 with 20 years (minimum 12 years legislative service) or age 55 with 12 years.

Correction Officers – Members of the Primary Component may retire with a 2.5% annual accrual rate at age 60 with 10 years of service, age 50 with 20 years, or 20 years of service regardless of age if employed prior to August 15, 1986. Effective January 1, 2002, new members accrue 3.33% per year and are eligible for retirement at 25 years of service regardless of age or age 60 with 10 years of service. Effective June 30, 2014, certain probation and parole officers in the office of adult services of the Department of Corrections who were employed prior to December 21, 2001 and did not join the Corrections Secondary plan may retire with a 3.0% accrual rate for service earned prior to June 30, 2014 and 3.33% for service earned after June 30, 2014.

Wildlife – Members hired prior to July 1, 2003 may retire at age 55 with 10 years of service, or at any age with 20 years. Benefit accrual rate is 3.0% for service earned prior to July 1, 2003 and 3.33% for service earned after July 1, 2003. Members hired on or after July 1, 2003 may retire at age 60 with 10 years or at any age with 25 years of service. Benefit accrual rate is 3.33%, or 2.5% if members retire with less than 10 years of wildlife service.

Peace Officers – Annual accrual rate is 3.33%. Eligibility is the same as regular members hired prior to July 1, 2006.

Alcohol Tobacco Control – Annual accrual rate is 3.33%. Member's eligibility to retire with 25 years of service at any age, age 60 with 10 years.

Bridge Police – Annual accrual rate is 2.5% with 10 years at age 60, or 25 years at any age. The last 10 years of service must be served as bridge police.

Hazardous Duty Plan – Annual accrual rate is 3.33%. Members are eligible to retire with 12 years at age 55. The last 10 years of service must be served in a hazardous duty position.

Harbor Police – Annual accrual rate is 3.33%. Members are eligible to retire with 25 years at any age, 12 years at age 55, 20 years at age 45, and 10 years at age 60.

2. Benefit Formula

For all plans, monthly retirement benefits are based on a formula, which multiplies the final average compensation, by the applicable accrual rate, and by the years of creditable service, plus a \$25 per month supplemental benefit for members hired prior to July 1, 1986. Final average compensation is determined as the highest successive 36 months for all but regular members hired on or after July 1, 2006, Judges whose first membership making them eligible for LASERS membership occurred on or after January 1, 2011, and members of the Hazardous Duty Plan. For these members, final average compensation is determined as the highest successive 60 months.

3. Payment Options

A retiring member is entitled to receive the maximum benefit payable until the member's death. In lieu of the maximum benefit, the member may elect to receive a reduced benefit payable in the form of a Joint and Survivor Option, or a reduced benefit with a lump-sum payment which cannot exceed 36 monthly benefit payments. In addition, beginning July 1, 2009, members may elect to receive a reduced benefit that will increase at 2.5% annually once the retiree attains age 55. This option is not available to recipients of disability retirement benefits.

Judges hired prior to January 1, 2011 receive the maximum benefit payable without reduction for a 50% Joint and Survivor Option. Wildlife members receive the maximum benefit payable without reduction for a 75% Joint and Survivor Option.

VI. Deferred Retirement Option Program (DROP)

In lieu of terminating employment and accepting a service retirement, an eligible member may begin participation on the first retirement eligibility date or within 60 days thereafter, for a period not to exceed 36 months. Delayed participation reduces the 36-month participation period. During participation, benefits otherwise payable are fixed, and deposited in an individual DROP account. Upon termination of DROP, the member may continue employment and earn additional accruals to be added to the fixed pre-DROP benefit.

Upon termination of employment, the member is entitled to the fixed benefit plus post-DROP accruals, plus the individual DROP account balance, which can be paid in a lump sum, or an additional annuity based upon the account balance.

VII. Disability Retirement Benefits

Active members with 10 or more years of service credit are eligible for disability retirement benefits if determined to be disabled from performing the duties of their job. Members receive a service retirement benefit based upon their accrued retirement benefit, except as specified below:

Judges – A service retirement benefit, but not less than 50% of current salary.

Corrections – Benefit for total disability incurred in-line-of-duty service is the greater of the accrued benefit or 40% of average compensation (60% for members of the Primary Plan). If a member of the Secondary Plan has 10 or more years of service, benefit is the greater of the accrued retirement benefit or 60% of final average compensation. Otherwise, benefit is the accrued retirement benefit.

Wildlife Agents – Minimum total disability incurred in-line-of-duty service is 60% of average compensation.

Hazardous Duty Plan – Total disability incurred in-line-of-duty benefit is 75% of average compensation.

Members of the Corrections, Wildlife, Hazardous Duty, or Harbor Police plans totally and permanently disabled by an intentional act of violence while in-line-of-duty receive 100% of final average compensation.

VIII. Survivor Benefits

Members whose first employment which makes them eligible for membership in a Louisiana state retirement system occurs prior to January 1, 2011:

A surviving spouse with minor children of an active member with five years of creditable service (two years immediately prior to death) or 20 years of creditable service is entitled to a benefit equal to the greater of 1) \$300 per month, or 2) 75% of the member's benefit calculated at the 2.5% accrual rate for all creditable service.

A surviving minor child, with no surviving spouse shall receive an amount equal to the greater of 75% of compensation or \$300. Benefits to minors cease at attainment of age 18, marriage or age 23 if enrolled in an approved institution of higher education.

A surviving spouse without minor children of an active member with 10 years of creditable service (two years immediately prior to death) or 20 years of creditable service is entitled to a benefit equal to the greater of 1) \$200 per month, or 2) 50% of the member's final average compensation.

Members whose first employment which makes them eligible for membership in a Louisiana state retirement system occurs on or after January 1, 2011:

A surviving spouse with minor children of an active member with five years of creditable service (two years immediately prior to death) or 20 years of creditable service is entitled to a benefit equal to the greater of 1) \$600 per month, or 2) 50% of the member's accrued benefit. Each child receives 50% of the spouses benefit, up to two children. Minimum benefit based on the Option 2A equivalent for the surviving spouse.

A surviving minor child, with no surviving spouse shall receive an amount equal 50% of the benefit for surviving spouse with minor children, up to two children, divided equally among all children.

A surviving spouse without minor children of an active member with 10 years of creditable service

(two years immediately prior to death) or 20 years of creditable service is entitled to a benefit based on the Option 2A equivalent for the surviving spouse.

The Option 2A equivalent is an actuarially reduced benefit whereby 100% of the actuarially reduced benefit continues for the life of the beneficiary.

A surviving spouse without minor children of an active member with a minimum of five years of creditable service in the Harbor Police Plan may receive a non-line of duty survivor benefit equal to 40% of final average compensation which ceases upon remarriage. The survivor benefit for a surviving spouse with minor children is equal to 60% of final average compensation. No minimum service credit is required for line of duty survivor benefits which are equal to 60% of final average compensation to surviving spouse, regardless of children. Line of duty survivor benefits cease upon remarriage, and the benefit is then paid to minor children.

The survivor benefit is 100% of final salary for any member who is eligible for membership in the Hazardous Duty Plan, if killed in the line of duty by an intentional act of violence.

IX. Post-Retirement Increases

Provisions regarding future Permanent Benefit Increases (PBIs) were substantially changed by Act 399 of 2014. PBIs may be granted, if requested by the Board and approved with a two-thirds vote of both houses of legislature, provided there are sufficient funds in the Experience Account to fully fund the increase on an actuarial basis.

Experience Account Credits/Debits: After allocation of the first \$100,000,000 of investment experience gains to the Unfunded Accrued Liability, the Experience Account is credited with up to 50% of the remaining excess investment income, up to a maximum balance as described below. The \$100,000,000 threshold is indexed based upon the increase in the actuarial value of assets. Excess investment income is investment income for the prior fiscal year in excess of the expected income based on the actuarial valuation rate for that fiscal year. Balances in the Experience Account accrue interest at the actuarial rate of return during the prior year; however, all credits are limited as follows:

If the system's funded ratio is less than 80%, the Experience Account is limited to the reserve necessary to grant one PBI. If the funded ratio is at least 80%, the Experience Account is limited to the reserve necessary to fund two PBI's. The Experience Account is debited for the increase in actuarial accrued liability resulting from the increases.

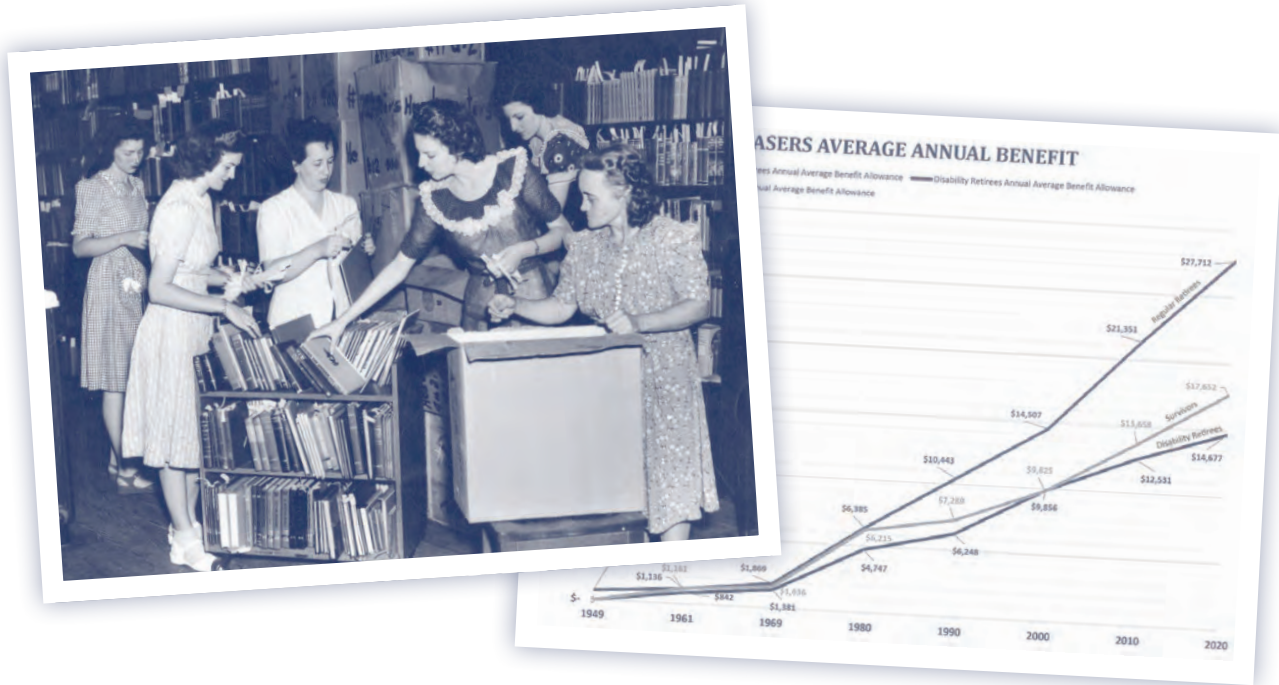
Permanent Benefit Increases: No increase can be granted if the legislature granted an increase in the preceding fiscal year, unless the system is 85% funded or greater. Additionally, PBI's are limited to the lesser of the increase in the CPI-U for the twelve-month period ending on the system's valuation date, or an amount determined by the system's funded ratio:

Funded Ratio	PBI Increase Limit
< 55%	0%
55% to <65%	1.5%
65% to <75%	2.0%
75% to <80%	2.5%
80% +	3.0%

Beginning July 1, 2015, any increase is limited to the first \$60,000 of a retiree's annual benefit, increased annually by the CPI-U for the twelve-month period ending in June. If the actuarial rate of return for the prior plan year is less than 8.25%, regardless of the discount rate, the increase is limited to the lesser of 2% or the amount described above.

Eligibility Requirements: Benefits are restricted to those retirees who have attained the age of 60 and have been retired for at least one year. The age 60 requirement does not apply to disability retirees.

STATISTICAL SECTION



Photos: (L) Louisiana employees of the Extension Department packing books to be sent to the St. Helena Parish Demonstration Library, 1940s. (R) LASERS Average Annual Benefit Chart reflecting statistics from 1949 through 2020.

In LASERS 75-year history, statistics show the growth and sustainability of the System. In the beginning, there were 216 retirees. Today, we number over 41,000. Active members totaled 15,000 in the late 1940s, and today over 39,000. LASERS average annual benefit for regular retirees has grown from \$734 in 1949 to over \$27,000 today. By adopting new strategic asset allocations annually, adjusting the discount rate, and amortizing the debt schedule, LASERS has built a solid path to strengthen the retirement fund for decades to come.

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Summary

The objective of the Statistical Section is to provide financial statement users with a historical perspective, context, and detail to assist in using the information in the financial statements and the notes to the financial statements to better understand and assess LASERS economic condition. All non-accounting data is taken from LASERS internal sources except for that information which is derived from actuarial valuations.

Financial Trends

The schedules listed below provide financial trend information that assists users in understanding and assessing how LASERS financial position has changed over time:

- Changes in Fiduciary Net Position
- Valuation Assets vs. Pension Liabilities
- Employee Contribution Rates
- Employer Contribution Rates

Operational Information

The schedules listed below are intended to provide contextual information about LASERS operations to assist in assessing the System's economic condition:

- Benefit Expenses by Type
- Average Monthly Benefit Amounts
- LASERS Membership
- LASERS Changes In Membership
- Number of Benefit Recipients
- Retired Members by Recipient Type and Plan

Demographic Information

This information is intended to assist readers in understanding the environment in which LASERS operates. The demographic information includes:

- Location of LASERS Benefit Recipients
- Fiscal Year 2021 Gross Benefits Paid by Region
- Top Ten Contributing Employers by Member Count

Changes in Fiduciary Net Position

Ten Years Ended June 30, 2021

	2012	2013	2014	2015	2016
Additions (Reductions)					
Employer Contributions	\$ 637,285,920	\$ 649,029,708	\$ 612,698,414	\$ 722,137,361	\$ 718,606,512
Employee Contributions	192,795,057	173,357,802	152,993,052	153,281,097	152,233,771
Legislative Acts Income	-	-	2,465,608	4,540,773	10,790,721
Investment Income:					
Net Investment Income (Loss)	(11,299,929)	1,104,747,865	1,770,521,381	152,809,130	(296,729,232)
Other Income	32,441,258	33,806,894	20,810,679	12,928,989	15,185,502
Total Additions (Reductions) to Fiduciary Net Position	\$ 851,222,306	\$1,960,942,269	\$2,559,489,134	\$1,045,697,350	\$ 600,087,274
Deductions					
Retirement Benefits	\$ 978,971,262	\$1,070,410,859	\$1,167,477,166	\$1,199,079,252	\$1,238,507,932
Refunds and Transfers of Member Contributions	43,221,742	61,522,162	77,118,765	38,308,757	35,997,261
Administrative Expenses	13,810,702	14,258,832	14,810,539	15,877,682	15,615,605
Other Postemployment Benefits Expenses	999,650	982,754	1,103,488	940,845	982,858
Depreciation and Amortization Expenses	1,941,249	1,943,653	1,724,101	1,193,314	419,718
Total Deductions from Fiduciary Net Position	\$1,038,944,605	\$1,149,118,260	\$1,262,234,059	\$1,255,399,850	\$1,291,523,374
Total Change in Fiduciary Net Position	\$ (187,722,299)	\$ 811,824,009	\$1,297,255,075	\$ (209,702,500)	\$ (691,436,100)

Changes in Fiduciary Net Position (continued)

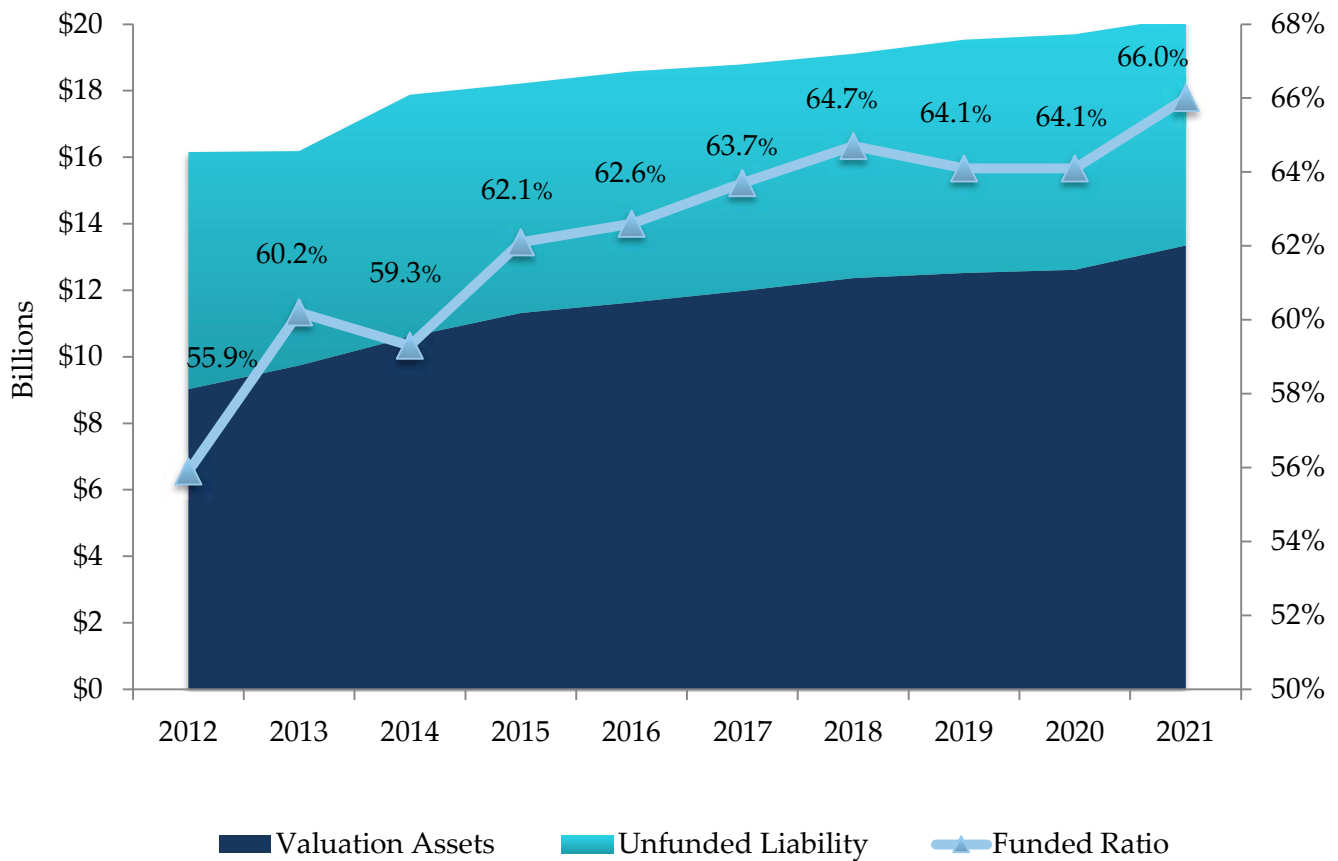
Ten Years Ended June 30, 2021

	2017	2018	2019	2020	2021
Additions (Reductions)					
Employer Contributions	\$ 675,583,750	\$ 725,802,871	\$ 760,150,449	\$ 837,449,602	\$ 844,776,387
Employee Contributions	149,931,242	152,189,709	160,338,556	164,576,018	166,954,560
Legislative Acts Income	250	3,676,833	9,479,319	16,668,183	8,438,055
Investment Income:					
Net Investment Income (Loss)	1,520,600,699	1,011,537,508	452,914,317	(480,573,814)	3,703,593,259
Other Income	14,049,005	15,198,732	13,052,134	15,955,512	14,556,140
Total Additions (Reductions) to Fiduciary Net Position	\$2,360,164,946	\$1,908,405,653	\$ 1,395,934,775	\$ 554,075,501	\$4,738,318,401
Deductions					
Retirement Benefits	\$1,274,461,022	\$1,317,635,325	\$ 1,343,892,705	\$ 1,368,004,318	\$1,394,914,135
Refunds and Transfers of Member Contributions	37,606,040	35,191,508	34,948,707	30,447,178	30,305,050
Administrative Expenses	17,074,984	14,732,258	16,785,776	16,749,257	16,606,586
Other Postemployment Benefits Expenses	904,975	9,525,495	538,097	42,750	89,651
Depreciation and Amortization Expenses	556,901	883,799	783,617	820,094	769,107
Total Deductions from Fiduciary Net Position	\$1,330,603,922	\$1,377,968,385	\$ 1,396,948,902	\$1,416,063,597	\$1,442,684,529
Total Change in Fiduciary Net Position	\$1,029,561,024	\$ 530,437,268	\$ (1,014,127)	\$ (861,988,096)	\$3,295,633,872

Valuation Assets vs. Pension Liabilities

Ten Years Ended June 30, 2021

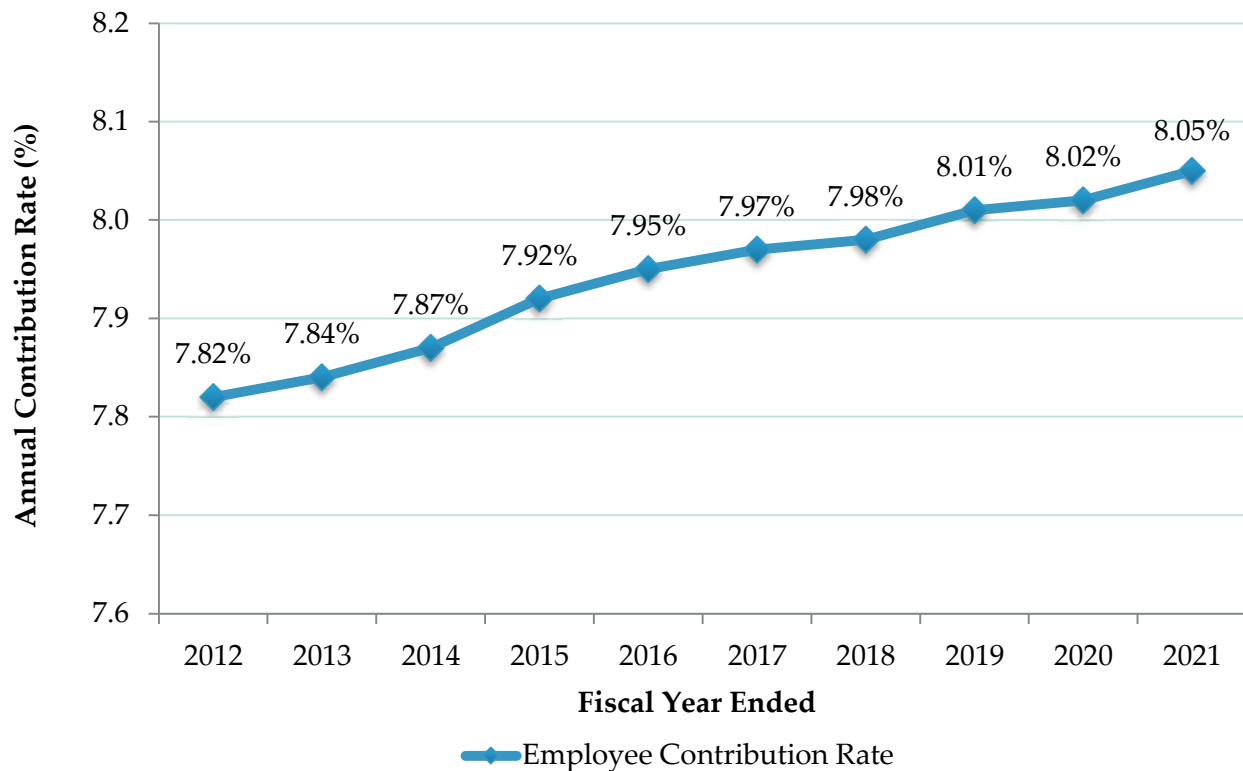
Fiscal Year	Dollars in Billions				Funded Ratio
	Valuation Assets	Unfunded Liability	Accrued Liability		
2012	\$ 9.0264	\$ 7.1315	\$ 16.1579		55.9%
2013	\$ 9.7409	\$ 6.4413	\$ 16.1822		60.2%
2014	\$ 10.6065	\$ 7.2713	\$ 17.8778		59.3%
2015	\$ 11.3184	\$ 6.8982	\$ 18.2167		62.1%
2016	\$ 11.6308	\$ 6.9455	\$ 18.5763		62.6%
2017	\$ 11.9768	\$ 6.8153	\$ 18.7921		63.7%
2018	\$ 12.3605	\$ 6.7431	\$ 19.1036		64.7%
2019	\$ 12.5208	\$ 7.0068	\$ 19.5276		64.1%
2020	\$ 12.6172	\$ 7.0742	\$ 19.6914		64.1%
2021	\$ 13.3475	\$ 6.8729	\$ 20.2203		66.0%



Employee Contribution Rates

Ten Years Ended June 30, 2021

Fiscal Year	Employee Contribution Rate
2012	7.82%
2013	7.84%
2014	7.87%
2015	7.92%
2016	7.95%
2017	7.97%
2018	7.98%
2019	8.01%
2020	8.02%
2021	8.05%



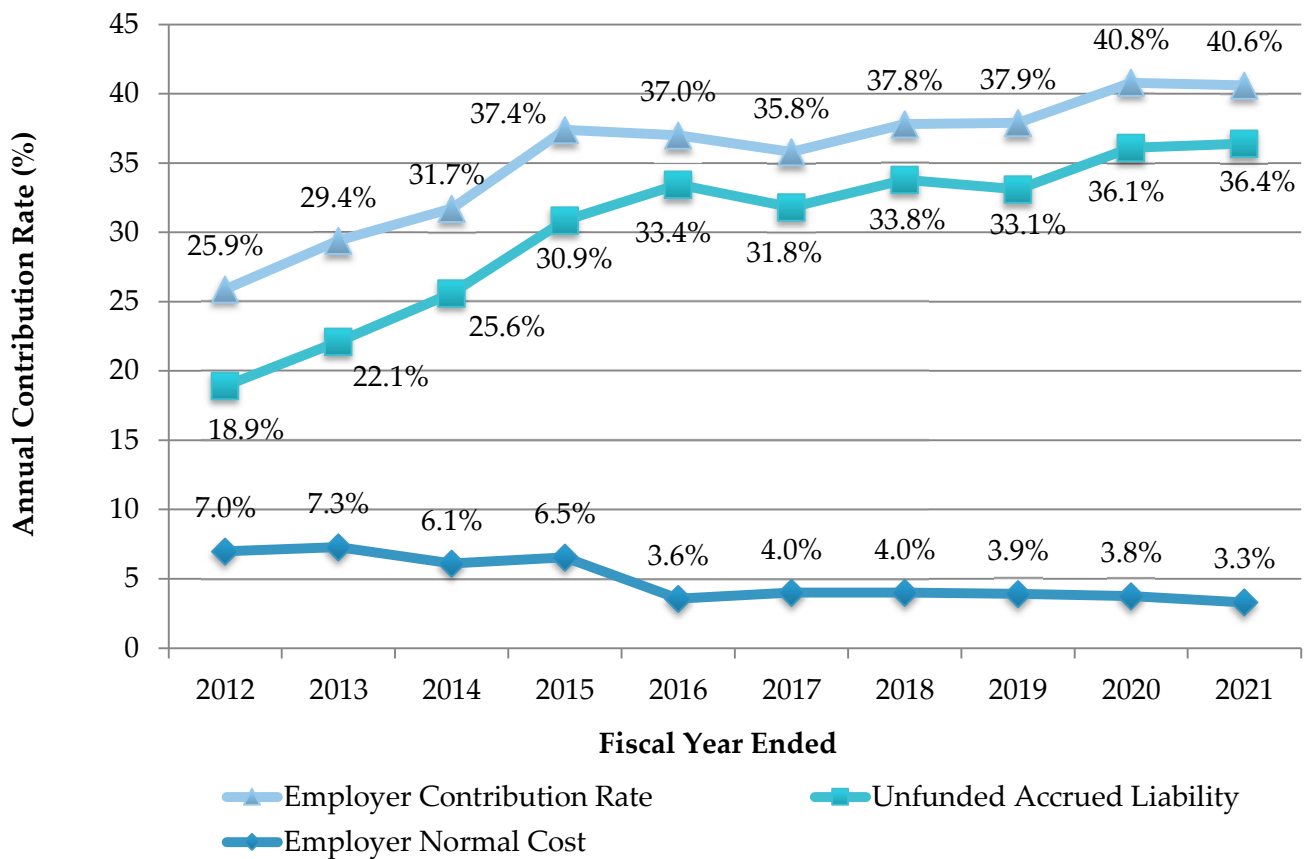
The employee contribution rate varies by plan. The rates shown above reflect the average, rather than the actual rate contributed by each employee.

The rates above for each fiscal year are determined by prior year actuarial valuations. For example, fiscal year ended 2021 rates were determined by the fiscal year ended 2019 actuarial valuation.

Employer Contribution Rates

Ten Years Ended June 30, 2021

Fiscal Year	Employer Normal Cost	Admin Expenses*	Unfunded Accrued Liability	Total Employer Contribution Rate
2012	7.0%	N/A	18.9%	25.9%
2013	7.3%	N/A	22.1%	29.4%
2014	6.1%	N/A	25.6%	31.7%
2015	6.5%	N/A	30.9%	37.4%
2016	3.6%	N/A	33.4%	37.0%
2017	4.0%	N/A	31.8%	35.8%
2018	4.0%	N/A	33.8%	37.8%
2019	3.9%	0.9%	33.1%	37.9%
2020	3.8%	0.9%	36.1%	40.8%
2021	3.3%	0.9%	36.4%	40.6%



* Beginning in 2019, per Act 94 of 2016, administrative expenses were directly funded through employer contribution, rather than as a reduction to expected investment returns.

The rates above for each fiscal year are determined by prior year actuarial valuations. For example, fiscal year ended 2021 rates were determined by the fiscal year ended 2019 actuarial valuation, and reflect the composite employer normal cost and unfunded accrued liability rates for all plans within LASERS.

Benefit Expenses by Type

For the Ten Years Ended June 30, 2021

Type	2012	2013	2014	2015	2016
Benefits					
Regular	\$ 791,945,615	\$ 872,055,895	\$ 965,434,718	\$ 1,004,660,577	\$ 1,039,666,551
Survivors	79,190,930	81,755,704	83,901,456	87,434,135	91,330,722
Deferred Retirement Option	90,928,480	99,350,219	101,306,705	91,103,968	91,683,522
Initial Benefit Option	1,686,544	1,618,364	1,537,741	1,342,856	1,248,317
Disability Benefits	15,219,693	15,630,677	15,296,546	14,537,716	14,578,820
Total Benefits	\$ 978,971,262	\$ 1,070,410,859	\$ 1,167,477,166	\$ 1,199,079,252	\$ 1,238,507,932
Refunds					
Separation	\$ 38,575,552	\$ 52,012,078	\$ 66,904,948	\$ 31,533,895	\$ 29,026,583
Death	954,378	2,235,860	1,604,857	2,548,005	1,270,829
Total Refunds	\$ 39,529,930	\$ 54,247,938	\$ 68,509,805	\$ 34,081,900	\$ 30,297,412
Transfers to Other Systems	\$ 3,691,812	\$ 7,274,224	\$ 8,608,960	\$ 4,226,857	\$ 5,699,849
Total Refunds and Transfers	\$ 43,221,742	\$ 61,522,162	\$ 77,118,765	\$ 38,308,757	\$ 35,997,261

Benefit Expenses by Type (continued)

For the Ten Years Ended June 30, 2021

Type	2017	2018	2019	2020	2021
Benefits					
Regular	\$ 1,082,037,690	\$ 1,110,489,161	\$ 1,135,621,034	\$ 1,160,619,393	\$ 1,188,720,120
Survivors	95,582,244	99,820,473	102,089,676	104,732,082	107,916,681
Deferred Retirement Option	82,211,054	93,003,819	92,872,233	89,514,511	85,265,113
Initial Benefit Option	978,686	1,423,801	1,005,140	1,242,870	1,487,983
Disability Benefits	13,651,348	12,898,071	12,304,622	11,895,462	11,524,238
Total Benefits	\$ 1,274,461,022	\$ 1,317,635,325	\$ 1,343,892,705	\$ 1,368,004,318	\$ 1,394,914,135
Refunds					
Separation	\$ 28,443,202	\$ 24,998,614	\$ 24,880,397	\$ 23,423,476	\$ 21,137,317
Death	1,266,083	2,278,608	1,397,220	1,729,104	1,665,016
Total Refunds	\$ 29,709,285	\$ 27,277,222	\$ 26,277,617	\$ 25,152,580	\$ 22,802,333
Transfers to Other Systems	\$ 7,896,755	\$ 7,914,286	\$ 8,671,090	\$ 5,294,598	\$ 7,502,717
Total Refunds and Transfers	\$ 37,606,040	\$ 35,191,508	\$ 34,948,707	\$ 30,447,178	\$ 30,305,050

Average Monthly Benefit Amounts

Ten Years Ended June 30, 2021

Summary of All Retirees

		Years of Service Credit									All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+	
2021	Average Benefit Received	\$ 682	\$ 724	\$ 912	\$ 1,444	\$ 1,789	\$ 2,546	\$ 3,107	\$ 4,062	\$ 4,161	\$ 2,214
	Average Final Average Compensation	\$ 2,433	\$ 3,658	\$ 3,004	\$ 3,349	\$ 3,640	\$ 3,857	\$ 4,066	\$ 5,031	\$ 5,208	\$ 3,739
	Number of Retirees	94	795	7,018	6,063	9,718	11,235	12,040	2,121	451	49,535
2020	Average Benefit Received	\$ 666	\$ 737	\$ 898	\$ 1,403	\$ 1,758	\$ 2,490	\$ 3,043	\$ 3,962	\$ 4,063	\$ 2,163
	Average Final Average Compensation	\$ 2,380	\$ 3,604	\$ 2,943	\$ 3,245	\$ 3,570	\$ 3,768	\$ 3,978	\$ 4,901	\$ 5,097	\$ 3,651
	Number of Retirees	100	733	7,101	6,071	9,710	11,148	11,983	2,064	431	49,341
2019	Average Benefit Received	\$ 672	\$ 740	\$ 885	\$ 1,377	\$ 1,732	\$ 2,437	\$ 2,999	\$ 3,902	\$ 3,931	\$ 2,123
	Average Final Average Compensation	\$ 2,329	\$ 3,532	\$ 2,886	\$ 3,164	\$ 3,506	\$ 3,683	\$ 3,913	\$ 4,808	\$ 4,872	\$ 3,575
	Number of Retirees	102	685	7,155	6,119	9,725	11,074	11,984	2,005	420	49,269
2018	Average Benefit Received	\$ 879	\$ 729	\$ 872	\$ 1,352	\$ 1,710	\$ 2,390	\$ 2,964	\$ 3,845	\$ 3,862	\$ 2,089
	Average Final Average Compensation	\$ 2,207	\$ 3,393	\$ 2,828	\$ 3,107	\$ 3,455	\$ 3,609	\$ 3,857	\$ 4,720	\$ 4,759	\$ 3,509
	Number of Retirees	132	628	7,184	6,119	9,652	10,975	11,954	1,954	408	49,006
2017	Average Benefit Received	\$ 913	\$ 756	\$ 860	\$ 1,329	\$ 1,682	\$ 2,340	\$ 2,924	\$ 3,763	\$ 3,843	\$ 2,052
	Average Final Average Compensation	\$ 2,246	\$ 3,337	\$ 2,763	\$ 3,032	\$ 3,390	\$ 3,523	\$ 3,796	\$ 4,599	\$ 4,698	\$ 3,435
	Number of Retirees	142	577	7,178	6,137	9,593	10,868	11,884	1,908	392	48,679
2016	Average Benefit Received	\$ 893	\$ 746	\$ 846	\$ 1,308	\$ 1,653	\$ 2,297	\$ 2,882	\$ 3,665	\$ 3,742	\$ 2,014
	Average Final Average Compensation	\$ 2,245	\$ 3,205	\$ 2,694	\$ 2,961	\$ 3,319	\$ 3,447	\$ 3,727	\$ 4,460	\$ 4,516	\$ 3,357
	Number of Retirees	144	495	7,190	6,122	9,541	10,696	11,778	1,850	385	48,201
2015	Average Benefit Received	\$ 567	\$ 725	\$ 823	\$ 1,264	\$ 1,606	\$ 2,230	\$ 2,806	\$ 3,546	\$ 3,540	\$ 1,952
	Average Final Average Compensation	\$ 2,152	\$ 2,945	\$ 2,634	\$ 2,873	\$ 3,246	\$ 3,373	\$ 3,657	\$ 4,341	\$ 4,526	\$ 3,280
	Number of Retirees	116	417	7,195	6,083	9,493	10,581	11,615	1,779	364	47,643
2014	Average Benefit Received	\$ 548	\$ 760	\$ 810	\$ 1,231	\$ 1,571	\$ 2,186	\$ 2,750	\$ 3,454	\$ 3,457	\$ 1,908
	Average Final Average Compensation	\$ 2,129	\$ 2,786	\$ 2,561	\$ 2,780	\$ 3,165	\$ 3,293	\$ 3,570	\$ 4,202	\$ 4,119	\$ 3,190
	Number of Retirees	118	360	7,142	6,067	9,375	10,443	11,340	1,742	353	46,940
2013	Average Benefit Received	\$ 538	\$ 805	\$ 786	\$ 1,188	\$ 1,519	\$ 2,106	\$ 2,667	\$ 3,320	\$ 3,372	\$ 1,844
	Average Final Average Compensation	\$ 2,383	\$ 2,675	\$ 2,638	\$ 2,876	\$ 3,154	\$ 3,334	\$ 3,641	\$ 4,224	\$ 4,114	\$ 3,237
	Number of Retirees	124	293	6,982	5,984	8,911	10,149	10,961	1,666	355	45,425
2012	Average Benefit Received	\$ 564	\$ 889	\$ 767	\$ 1,148	\$ 1,460	\$ 2,026	\$ 2,575	\$ 3,154	\$ 3,237	\$ 1,771
	Average Final Average Compensation	\$ 2,496	\$ 2,345	\$ 2,516	\$ 2,732	\$ 2,904	\$ 3,158	\$ 3,471	\$ 3,844	\$ 3,687	\$ 3,048
	Number of Retirees	132	235	6,745	5,770	8,160	9,589	10,217	1,539	335	42,722

Ten Years Ended June 30, 2021

Average Benefit Received	\$ 702	\$ 749	\$ 846	\$ 1,305	\$ 1,653	\$ 2,312	\$ 2,879	\$ 3,693	\$ 3,747	\$ 2,019
Average Final Average Compensation	\$ 2,295	\$ 3,292	\$ 2,748	\$ 3,014	\$ 3,344	\$ 3,513	\$ 3,775	\$ 4,545	\$ 4,600	\$ 3,410

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Summary of Regular State Employees

		Years of Service Credit									All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+	
2021	Average Benefit Received	\$ 289	\$ 613	\$ 902	\$ 1,428	\$ 1,758	\$ 2,506	\$ 3,165	\$ 4,205	\$ 4,237	\$ 2,293
	Average Final Average Compensation	\$ 1,951	\$ 3,631	\$ 3,121	\$ 3,417	\$ 3,709	\$ 3,796	\$ 4,115	\$ 5,162	\$ 5,233	\$ 3,813
	Number of Retirees	59	702	4,921	4,086	6,671	8,921	10,554	1,782	370	38,066
2020	Average Benefit Received	\$ 287	\$ 612	\$ 889	\$ 1,398	\$ 1,737	\$ 2,462	\$ 3,109	\$ 4,123	\$ 4,170	\$ 2,250
	Average Final Average Compensation	\$ 1,917	\$ 3,609	\$ 3,066	\$ 3,327	\$ 3,654	\$ 3,722	\$ 4,035	\$ 5,051	\$ 5,166	\$ 3,738
	Number of Retirees	63	642	4,968	4,106	6,695	8,913	10,561	1,737	349	38,034
2019	Average Benefit Received	\$ 301	\$ 609	\$ 875	\$ 1,367	\$ 1,715	\$ 2,419	\$ 3,070	\$ 4,055	\$ 4,067	\$ 2,214
	Average Final Average Compensation	\$ 1,831	\$ 3,552	\$ 3,008	\$ 3,233	\$ 3,598	\$ 3,648	\$ 3,976	\$ 4,953	\$ 4,945	\$ 3,666
	Number of Retirees	65	598	5,002	4,138	6,688	8,887	10,588	1,701	331	37,998
2018	Average Benefit Received	\$ 358	\$ 584	\$ 861	\$ 1,345	\$ 1,696	\$ 2,382	\$ 3,035	\$ 3,996	\$ 3,956	\$ 2,184
	Average Final Average Compensation	\$ 1,803	\$ 3,400	\$ 2,938	\$ 3,167	\$ 3,546	\$ 3,582	\$ 3,921	\$ 4,866	\$ 4,798	\$ 3,601
	Number of Retirees	70	541	5,012	4,126	6,654	8,841	10,570	1,652	327	37,793
2017	Average Benefit Received	\$ 367	\$ 583	\$ 849	\$ 1,322	\$ 1,673	\$ 2,342	\$ 2,995	\$ 3,920	\$ 3,933	\$ 2,151
	Average Final Average Compensation	\$ 1,906	\$ 3,319	\$ 2,877	\$ 3,088	\$ 3,491	\$ 3,510	\$ 3,862	\$ 4,750	\$ 4,748	\$ 3,533
	Number of Retirees	76	490	4,982	4,137	6,614	8,788	10,542	1,619	314	37,562
2016	Average Benefit Received	\$ 357	\$ 563	\$ 834	\$ 1,300	\$ 1,642	\$ 2,307	\$ 2,953	\$ 3,844	\$ 3,823	\$ 2,116
	Average Final Average Compensation	\$ 1,866	\$ 3,201	\$ 2,803	\$ 3,011	\$ 3,417	\$ 3,444	\$ 3,794	\$ 4,638	\$ 4,560	\$ 3,457
	Number of Retirees	78	408	4,983	4,117	6,562	8,699	10,465	1,557	308	37,177
2015	Average Benefit Received	\$ 366	\$ 525	\$ 812	\$ 1,259	\$ 1,592	\$ 2,244	\$ 2,879	\$ 3,721	\$ 3,620	\$ 2,055
	Average Final Average Compensation	\$ 1,847	\$ 2,938	\$ 2,748	\$ 2,931	\$ 3,341	\$ 3,379	\$ 3,732	\$ 4,513	\$ 4,302	\$ 3,382
	Number of Retirees	85	332	4,967	4,067	6,499	8,641	10,307	1,499	284	36,681
2014	Average Benefit Received	\$ 363	\$ 522	\$ 800	\$ 1,237	\$ 1,559	\$ 2,210	\$ 2,827	\$ 3,643	\$ 3,546	\$ 2,017
	Average Final Average Compensation	\$ 1,834	\$ 2,805	\$ 2,680	\$ 2,856	\$ 3,257	\$ 3,315	\$ 3,651	\$ 4,392	\$ 4,147	\$ 3,303
	Number of Retirees	89	266	4,925	4,050	6,422	8,583	10,090	1,472	272	36,169
2013	Average Benefit Received	\$ 359	\$ 516	\$ 773	\$ 1,198	\$ 1,503	\$ 2,134	\$ 2,744	\$ 3,503	\$ 3,449	\$ 1,956
	Average Final Average Compensation	\$ 2,191	\$ 2,651	\$ 2,705	\$ 2,934	\$ 3,192	\$ 3,316	\$ 3,683	\$ 4,378	\$ 4,146	\$ 3,314
	Number of Retirees	94	197	4,756	3,972	5,952	8,356	9,752	1,417	279	34,775
2012	Average Benefit Received	\$ 410	\$ 521	\$ 752	\$ 1,151	\$ 1,437	\$ 2,051	\$ 2,653	\$ 3,353	\$ 3,356	\$ 1,882
	Average Final Average Compensation	\$ 2,318	\$ 2,087	\$ 2,566	\$ 2,763	\$ 2,877	\$ 3,126	\$ 3,511	\$ 3,987	\$ 3,743	\$ 3,104
	Number of Retirees	98	138	4,578	3,760	5,256	7,859	9,063	1,286	264	32,302

Ten Years Ended June 30, 2021

Average Benefit Received	\$ 351	\$ 581	\$ 836	\$ 1,302	\$ 1,637	\$ 2,310	\$ 2,950	\$ 3,861	\$ 3,846	\$ 2,117
Average Final Average Compensation	\$ 1,962	\$ 3,313	\$ 2,854	\$ 3,076	\$ 3,423	\$ 3,490	\$ 3,835	\$ 4,701	\$ 4,627	\$ 3,500

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Regular State Employees (Hired before July 1, 2006)

		Years of Service Credit									All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+	
2021	Average Benefit Received	\$ 288	\$ 638	\$ 889	\$ 1,419	\$ 1,755	\$ 2,505	\$ 3,165	\$ 4,205	\$ 4,237	\$ 2,331
	Average Final Average Compensation	\$ 1,755	\$ 2,296	\$ 3,052	\$ 3,394	\$ 3,703	\$ 3,795	\$ 4,115	\$ 5,162	\$ 5,233	\$ 3,808
	Number of Retirees	53	92	4,567	4,057	6,653	8,915	10,552	1,782	370	37,041
2020	Average Benefit Received	\$ 286	\$ 616	\$ 881	\$ 1,393	\$ 1,735	\$ 2,462	\$ 3,109	\$ 4,123	\$ 4,170	\$ 2,283
	Average Final Average Compensation	\$ 1,731	\$ 2,248	\$ 3,014	\$ 3,313	\$ 3,649	\$ 3,722	\$ 4,035	\$ 5,051	\$ 5,166	\$ 3,732
	Number of Retirees	57	97	4,717	4,087	6,679	8,908	10,560	1,737	349	37,191
2019	Average Benefit Received	\$ 302	\$ 616	\$ 870	\$ 1,362	\$ 1,713	\$ 2,419	\$ 3,070	\$ 4,055	\$ 4,067	\$ 2,242
	Average Final Average Compensation	\$ 1,706	\$ 2,211	\$ 2,971	\$ 3,219	\$ 3,594	\$ 3,647	\$ 3,976	\$ 4,953	\$ 4,945	\$ 3,660
	Number of Retirees	60	98	4,819	4,121	6,675	8,884	10,587	1,701	331	37,276
2018	Average Benefit Received	\$ 363	\$ 611	\$ 857	\$ 1,341	\$ 1,693	\$ 2,382	\$ 3,035	\$ 3,996	\$ 3,956	\$ 2,206
	Average Final Average Compensation	\$ 1,711	\$ 2,187	\$ 2,914	\$ 3,155	\$ 3,542	\$ 3,582	\$ 3,921	\$ 4,866	\$ 4,798	\$ 3,597
	Number of Retirees	66	100	4,903	4,114	6,644	8,839	10,569	1,652	327	37,214
2017	Average Benefit Received	\$ 374	\$ 617	\$ 846	\$ 1,320	\$ 1,671	\$ 2,342	\$ 2,995	\$ 3,920	\$ 3,933	\$ 2,169
	Average Final Average Compensation	\$ 1,872	\$ 2,142	\$ 2,861	\$ 3,084	\$ 3,487	\$ 3,509	\$ 3,862	\$ 4,750	\$ 4,745	\$ 3,530
	Number of Retirees	73	106	4,931	4,130	6,606	8,787	10,541	1,619	314	37,107
2016	Average Benefit Received	\$ 360	\$ 605	\$ 831	\$ 1,300	\$ 1,639	\$ 2,307	\$ 2,953	\$ 3,844	\$ 3,823	\$ 2,129
	Average Final Average Compensation	\$ 1,835	\$ 2,146	\$ 2,791	\$ 3,010	\$ 3,413	\$ 3,444	\$ 3,794	\$ 4,638	\$ 4,560	\$ 3,454
	Number of Retirees	76	109	4,955	4,113	6,555	8,698	10,464	1,557	308	36,835
2015	Average Benefit Received	\$ 367	\$ 596	\$ 810	\$ 1,258	\$ 1,592	\$ 2,244	\$ 2,879	\$ 3,721	\$ 3,620	\$ 2,064
	Average Final Average Compensation	\$ 1,805	\$ 2,115	\$ 2,739	\$ 2,930	\$ 3,339	\$ 3,379	\$ 3,731	\$ 4,513	\$ 4,302	\$ 3,381
	Number of Retirees	84	118	4,951	4,064	6,495	8,641	10,306	1,499	284	36,442
2014	Average Benefit Received	\$ 364	\$ 586	\$ 798	\$ 1,237	\$ 1,558	\$ 2,209	\$ 2,827	\$ 3,643	\$ 3,546	\$ 2,023
	Average Final Average Compensation	\$ 1,794	\$ 2,105	\$ 2,674	\$ 2,856	\$ 3,255	\$ 3,314	\$ 3,651	\$ 4,392	\$ 4,147	\$ 3,302
	Number of Retirees	88	122	4,913	4,047	6,418	8,582	10,090	1,472	272	36,004
2013	Average Benefit Received	\$ 360	\$ 542	\$ 771	\$ 1,197	\$ 1,503	\$ 2,134	\$ 2,744	\$ 3,503	\$ 3,449	\$ 1,959
	Average Final Average Compensation	\$ 2,156	\$ 2,131	\$ 2,701	\$ 2,933	\$ 3,192	\$ 3,316	\$ 3,683	\$ 4,378	\$ 4,146	\$ 3,313
	Number of Retirees	93	125	4,750	3,969	5,951	8,356	9,752	1,417	279	34,692
2012	Average Benefit Received	\$ 411	\$ 529	\$ 752	\$ 1,151	\$ 1,437	\$ 2,051	\$ 2,653	\$ 3,353	\$ 3,356	\$ 1,883
	Average Final Average Compensation	\$ 2,287	\$ 2,068	\$ 2,566	\$ 2,763	\$ 2,877	\$ 3,126	\$ 3,511	\$ 3,987	\$ 3,743	\$ 3,105
	Number of Retirees	97	128	4,577	3,759	5,256	7,859	9,063	1,286	264	32,289

Ten Years Ended June 30, 2021

Average Benefit Received	\$ 354	\$ 592	\$ 831	\$ 1,299	\$ 1,636	\$ 2,310	\$ 2,950	\$ 3,861	\$ 3,846	\$ 2,134
Average Final Average Compensation	\$ 1,894	\$ 2,158	\$ 2,828	\$ 3,069	\$ 3,420	\$ 3,490	\$ 3,835	\$ 4,701	\$ 4,627	\$ 3,495

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Regular State Employees 2 (Hired on or after July 1, 2006)

		Years of Service Credit									All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+	
2021	Average Benefit Received	\$ 278	\$ 607	\$ 1,059	\$ 2,727	\$ 3,340	\$ 2,745	\$ 4,267	\$ -	\$ -	\$ 915
	Average Final Average Compensation	\$ 3,332	\$ 3,745	\$ 3,963	\$ 6,778	\$ 6,421	\$ 5,231	\$ 5,921	\$ -	\$ -	\$ 3,977
	Number of Retirees	4	453	336	24	15	4	2	0	0	838
2020	Average Benefit Received	\$ 278	\$ 613	\$ 1,028	\$ 2,620	\$ 3,161	\$ 2,745	\$ 3,558	\$ -	\$ -	\$ 856
	Average Final Average Compensation	\$ 3,332	\$ 3,776	\$ 4,002	\$ 6,546	\$ 6,060	\$ 5,231	\$ 5,756	\$ -	\$ -	\$ 3,963
	Number of Retirees	4	441	239	16	13	4	1	0	0	718
2019	Average Benefit Received	\$ 278	\$ 613	\$ 993	\$ 2,760	\$ 3,349	\$ 1,928	\$ 3,558	\$ -	\$ -	\$ 815
	Average Final Average Compensation	\$ 3,332	\$ 3,774	\$ 3,916	\$ 6,865	\$ 6,203	\$ 4,927	\$ 5,756	\$ -	\$ -	\$ 3,925
	Number of Retirees	4	425	171	14	10	2	1	0	0	627
2018	Average Benefit Received	\$ 278	\$ 581	\$ 987	\$ 2,894	\$ 3,608	\$ 2,808	\$ 3,558	\$ -	\$ -	\$ 762
	Average Final Average Compensation	\$ 3,332	\$ 3,633	\$ 3,969	\$ 7,494	\$ 6,573	\$ 5,620	\$ 5,756	\$ -	\$ -	\$ 3,826
	Number of Retirees	4	400	100	10	9	1	1	0	0	525
2017	Average Benefit Received	\$ 201	\$ 577	\$ 1,091	\$ 2,366	\$ 3,720	\$ -	\$ 3,588	\$ -	\$ -	\$ 720
	Average Final Average Compensation	\$ 2,749	\$ 3,622	\$ 4,214	\$ 5,686	\$ 6,764	\$ -	\$ 5,756	\$ -	\$ -	\$ 3,771
	Number of Retirees	3	363	45	6	8	0	1	0	0	426
2016	Average Benefit Received	\$ 217	\$ 547	\$ 1,369	\$ 1,726	\$ 3,649	\$ -	\$ 3,558	\$ -	\$ -	\$ 693
	Average Final Average Compensation	\$ 3,055	\$ 3,567	\$ 5,064	\$ 3,960	\$ 6,770	\$ -	\$ 5,756	\$ -	\$ -	\$ 3,756
	Number of Retirees	2	291	25	3	7	0	1	0	0	329
2015	Average Benefit Received	\$ 299	\$ 486	\$ 1,550	\$ 1,701	\$ 2,455	\$ -	\$ 3,506	\$ -	\$ -	\$ 614
	Average Final Average Compensation	\$ 5,355	\$ 3,391	\$ 5,644	\$ 3,960	\$ 5,415	\$ -	\$ 5,756	\$ -	\$ -	\$ 3,594
	Number of Retirees	1	212	15	3	4	0	1	0	0	236
2014	Average Benefit Received	\$ 299	\$ 469	\$ 1,537	\$ 1,701	\$ 2,455	\$ 9,200	\$ -	\$ -	\$ -	\$ 664
	Average Final Average Compensation	\$ 5,355	\$ 3,397	\$ 5,691	\$ 3,960	\$ 5,415	\$ 12,041	\$ -	\$ -	\$ -	\$ 3,675
	Number of Retirees	1	144	11	3	4	1	0	0	0	164
2013	Average Benefit Received	\$ 295	\$ 471	\$ 1,805	\$ 1,666	\$ 2,174	\$ -	\$ -	\$ -	\$ -	\$ 615
	Average Final Average Compensation	\$ 5,355	\$ 3,539	\$ 6,780	\$ 3,960	\$ 4,596	\$ -	\$ -	\$ -	\$ -	\$ 3,787
	Number of Retirees	1	72	5	3	1	0	0	0	0	82
2012	Average Benefit Received	\$ 295	\$ 411	\$ 876	\$ 723	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 462
	Average Final Average Compensation	\$ 5,355	\$ 3,278	\$ 3,151	\$ 1,409	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,284
	Number of Retirees	1	10	1	1	0	0	0	0	0	13

Ten Years Ended June 30, 2021

Average Benefit Received	\$ 267	\$ 575	\$ 1,058	\$ 2,533	\$ 3,300	\$ 3,152	\$ 3,733	\$ -	\$ -	\$ 793
Average Final Average Compensation	\$ 3,564	\$ 3,653	\$ 4,067	\$ 6,283	\$ 6,277	\$ 5,780	\$ 5,797	\$ -	\$ -	\$ 3,864

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Regular State Employees 3 (Hired on or after January 1, 2011)

		Years of Service Credit										All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+		
2021	Average Benefit Received	\$ 338	\$ 621	\$ 1,410	\$ 2,164	\$ 900	\$ 4,352	\$ -	\$ -	\$ -	\$ 782	
	Average Final Average Compensation	\$ 4,388	\$ 4,093	\$ 5,063	\$ 5,498	\$ 3,873	\$ 7,259	\$ -	\$ -	\$ -	\$ 4,259	
	Number of Retirees	2	150	17	5	3	2	0	0	0	179	
2020	Average Benefit Received	\$ 338	\$ 593	\$ 1,398	\$ 2,001	\$ 900	\$ 2,706	\$ -	\$ -	\$ -	\$ 720	
	Average Final Average Compensation	\$ 4,388	\$ 4,119	\$ 5,057	\$ 5,072	\$ 3,873	\$ 5,888	\$ -	\$ -	\$ -	\$ 4,239	
	Number of Retirees	2	103	11	3	3	1	0	0	0	123	
2019	Average Benefit Received	\$ 370	\$ 562	\$ 1,388	\$ 2,001	\$ 900	\$ 2,706	\$ -	\$ -	\$ -	\$ 745	
	Average Final Average Compensation	\$ 3,362	\$ 3,967	\$ 4,903	\$ 5,072	\$ 3,873	\$ 5,888	\$ -	\$ -	\$ -	\$ 4,133	
	Number of Retirees	1	74	12	3	3	1	0	0	0	94	
2018	Average Benefit Received	\$ -	\$ 520	\$ 1,379	\$ 2,216	\$ 822	\$ 2,706	\$ -	\$ -	\$ -	\$ 777	
	Average Final Average Compensation	\$ -	\$ 3,953	\$ 4,665	\$ 5,962	\$ 4,615	\$ 5,888	\$ -	\$ -	\$ -	\$ 4,199	
	Number of Retirees	0	40	9	2	1	1	0	0	0	53	
2017	Average Benefit Received	\$ -	\$ 507	\$ 1,949	\$ 1,019	\$ -	\$ 2,706	\$ -	\$ -	\$ -	\$ 899	
	Average Final Average Compensation	\$ -	\$ 4,023	\$ 6,088	\$ 3,748	\$ -	\$ 5,888	\$ -	\$ -	\$ -	\$ 4,505	
	Number of Retirees	0	21	6	1	0	1	0	0	0	29	
2016	Average Benefit Received	\$ -	\$ 583	\$ 1,114	\$ 1,019	\$ -	\$ 2,706	\$ -	\$ -	\$ -	\$ 902	
	Average Final Average Compensation	\$ -	\$ 4,283	\$ 3,769	\$ 3,748	\$ -	\$ 5,888	\$ -	\$ -	\$ -	\$ 4,247	
	Number of Retirees	0	8	3	1	0	1	0	0	0	13	
2015	Average Benefit Received	\$ -	\$ 487	\$ 1,168	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 714	
	Average Final Average Compensation	\$ -	\$ 3,568	\$ 3,405	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,514	
	Number of Retirees	0	2	1	0	0	0	0	0	0	3	
2014	Average Benefit Received	\$ -	\$ -	\$ 1,168	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,168	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,405	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,405	
	Number of Retirees	0	0	1	0	0	0	0	0	0	1	
2013	Average Benefit Received	\$ -	\$ -	\$ 1,151	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,151	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,405	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,405	
	Number of Retirees	0	0	1	0	0	0	0	0	0	1	
2012	Average Benefit Received	No Activity										
	Average Final Average Compensation	No Activity										
	Number of Retirees	No Activity										

Ten Years Ended June 30, 2021

Average Benefit Received	\$ 344	\$ 585	\$ 1,425	\$ 1,953	\$ 892	\$ 3,176	\$ -	\$ -	\$ -	\$ 770
Average Final Average Compensation	\$ 4,183	\$ 4,060	\$ 4,927	\$ 5,156	\$ 3,947	\$ 6,280	\$ -	\$ -	\$ -	\$ 4,230

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Regular State Employees 4 (Hired on or after July 1, 2015)

		Years of Service Credit										All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+		
2021	Average Benefit Received	\$ -	\$ 547	\$ 830	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 582
	Average Final Average Compensation	\$ -	\$3,890	\$ 3,064	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,787
	Number of Retirees	0	7	1	0	0	0	0	0	0	0	8
2020	Average Benefit Received	\$ -	\$1,793	\$ 830	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,312
	Average Final Average Compensation	\$ -	\$9,601	\$ 3,064	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,333
	Number of Retirees	0	1	1	0	0	0	0	0	0	0	2
2019	Average Benefit Received	\$ -	1,793	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,793
	Average Final Average Compensation	\$ -	9,601	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,601
	Number of Retirees	0	1	0	0	0	0	0	0	0	0	1
2018	Average Benefit Received	\$ -	\$1,793	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,793
	Average Final Average Compensation	\$ -	\$9,601	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,601
	Number of Retirees	0	1	0	0	0	0	0	0	0	0	1
2012-2017	Average Benefit Received	No Activity										
	Average Final Average Compensation	No Activity										
	Number of Retirees	No Activity										

Ten Years Ended June 30, 2021

Average Benefit Received	\$ -	\$ 921	\$ 830	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 906
Average Final Average Compensation	\$ -	\$5,603	\$ 3,064	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,180

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Summary of Corrections Employees

		Years of Service Credit										All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+		
2021	Average Benefit Received	\$ -	\$ -	\$ 1,126	\$ 1,815	\$ 1,840	\$ 3,389	\$ 4,310	\$ 5,086	\$ 6,757	\$ 2,514	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,477	\$ 4,122	\$ 3,529	\$ 4,991	\$ 5,705	\$ 6,512	\$ 7,917	\$ 4,245	
	Number of Retirees	0	0	179	187	1,087	764	187	37	3	2,444	
2020	Average Benefit Received	\$ -	\$ -	\$ 1,133	\$ 1,759	\$ 1,824	\$ 3,297	\$ 4,177	\$ 4,768	\$ 7,105	\$ 2,436	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,494	\$ 4,059	\$ 3,511	\$ 4,917	\$ 5,570	\$ 6,203	\$ 8,574	\$ 4,173	
	Number of Retirees	0	0	177	176	1,091	721	171	34	4	2,374	
2019	Average Benefit Received	\$ -	\$ -	\$ 1,114	\$ 1,735	\$ 1,795	\$ 3,223	\$ 4,050	\$ 4,584	\$ 7,104	\$ 2,362	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,468	\$ 4,033	\$ 3,458	\$ 4,855	\$ 5,485	\$ 6,055	\$ 8,574	\$ 4,094	
	Number of Retirees	0	0	169	164	1,081	675	158	27	4	2,278	
2018	Average Benefit Received	\$ -	\$ -	\$ 1,104	\$ 1,699	\$ 1,775	\$ 3,166	\$ 3,990	\$ 4,705	\$ 7,104	\$ 2,318	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,474	\$ 4,002	\$ 3,424	\$ 4,808	\$ 5,409	\$ 6,124	\$ 8,574	\$ 4,046	
	Number of Retirees	0	0	161	159	1,078	645	155	23	4	2,225	
2017	Average Benefit Received	\$ -	\$ -	\$ 1,093	\$ 1,712	\$ 1,766	\$ 3,085	\$ 3,858	\$ 4,709	\$ 6,757	\$ 2,254	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,458	\$ 4,019	\$ 3,395	\$ 4,731	\$ 5,275	\$ 6,009	\$ 7,917	\$ 3,969	
	Number of Retirees	0	0	146	153	1,081	592	144	18	3	2,137	
2016	Average Benefit Received	\$ -	\$ -	\$ 1,059	\$ 1,684	\$ 1,751	\$ 2,981	\$ 3,787	\$ 4,642	\$ 6,757	\$ 2,185	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,418	\$ 3,998	\$ 3,370	\$ 4,635	\$ 5,189	\$ 5,790	\$ 7,917	\$ 3,892	
	Number of Retirees	0	0	132	144	1,082	536	133	15	3	2,045	
2015	Average Benefit Received	\$ -	\$ -	\$ 1,027	\$ 1,633	\$ 1,717	\$ 2,886	\$ 3,691	\$ 4,363	\$ 6,683	\$ 2,100	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,401	\$ 3,972	\$ 3,336	\$ 4,554	\$ 5,122	\$ 5,568	\$ 7,917	\$ 3,812	
	Number of Retirees	0	0	122	130	1,084	475	120	13	3	1,947	
2014	Average Benefit Received	\$ -	\$ -	\$ 997	\$ 1,621	\$ 1,697	\$ 2,782	\$ 3,639	\$ 4,110	\$ 5,977	\$ 2,028	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,341	\$ 3,972	\$ 3,296	\$ 4,452	\$ 5,036	\$ 5,290	\$ 7,515	\$ 3,723	
	Number of Retirees	0	0	112	118	1,078	424	107	8	3	1,850	
2013	Average Benefit Received	\$ -	\$ -	\$ 972	\$ 1,594	\$ 1,665	\$ 2,657	\$ 3,562	\$ 4,330	\$ 4,542	\$ 1,952	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,305	\$ 3,954	\$ 3,243	\$ 4,320	\$ 4,969	\$ 5,575	\$ 5,577	\$ 3,629	
	Number of Retirees	0	0	105	105	1,055	373	97	6	4	1,745	
2012	Average Benefit Received	\$ 1,645	\$ -	\$ 966	\$ 1,574	\$ 1,622	\$ 2,552	\$ 3,495	\$ 4,256	\$ 4,542	\$ 1,886	
	Average Final Average Compensation	\$ 3,474	\$ -	\$ 3,284	\$ 3,942	\$ 3,165	\$ 4,205	\$ 4,871	\$ 5,586	\$ 5,577	\$ 3,529	
	Number of Retirees	1	0	86	93	1,036	337	84	5	4	1,646	

Ten Years Ended June 30, 2021

Average Benefit Received	\$ 1,645	\$ -	\$ 1,072	\$ 1,697	\$ 1,746	\$ 3,069	\$ 3,915	\$ 4,696	\$ 6,297	\$ 2,228
Average Final Average Compensation	\$ 3,474	\$ -	\$ 3,428	\$ 4,017	\$ 3,374	\$ 4,710	\$ 5,324	\$ 6,061	\$ 7,573	\$ 3,939

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Corrections Employees Primary (Hired before January 1, 2002)

		Years of Service Credit										All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+		
2021	Average Benefit Received	\$ -	\$ -	\$ 945	\$ 1,539	\$ 1,731	\$ 2,515	\$ 3,295	\$ 3,398	\$ 4,912	\$ 1,877	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,252	\$ 3,878	\$ 3,360	\$ 4,038	\$ 4,365	\$ 4,728	\$ 5,808	\$ 3,531	
	Number of Retirees	0	0	51	67	928	195	49	6	1	1,297	
2020	Average Benefit Received	\$ -	\$ -	\$ 945	\$ 1,527	\$ 1,723	\$ 2,498	\$ 3,243	\$ 3,398	\$ 4,912	\$ 1,866	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,274	\$ 3,850	\$ 3,346	\$ 4,000	\$ 4,284	\$ 4,728	\$ 5,808	\$ 3,513	
	Number of Retirees	0	0	53	69	937	203	48	6	1	1,317	
2019	Average Benefit Received	\$ -	\$ -	\$ 951	\$ 1,542	\$ 1,708	\$ 2,498	\$ 3,181	\$ 3,387	\$ 4,912	\$ 1,856	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,291	\$ 3,864	\$ 3,308	\$ 3,997	\$ 4,251	\$ 4,752	\$ 5,808	\$ 3,485	
	Number of Retirees	0	0	51	69	941	204	49	5	1	1,320	
2018	Average Benefit Received	\$ -	\$ -	\$ 955	\$ 1,530	\$ 1,694	\$ 2,484	\$ 3,079	\$ 3,617	\$ 4,912	\$ 1,838	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,335	\$ 3,854	\$ 3,277	\$ 3,966	\$ 4,131	\$ 4,839	\$ 5,808	\$ 3,454	
	Number of Retirees	0	0	52	69	943	203	51	3	1	1,322	
2017	Average Benefit Received	\$ -	\$ -	\$ 963	\$ 1,551	\$ 1,686	\$ 2,467	\$ 3,057	\$ 3,750	\$ 4,912	\$ 1,831	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,330	\$ 3,866	\$ 3,250	\$ 3,954	\$ 4,095	\$ 4,455	\$ 5,808	\$ 3,432	
	Number of Retirees	0	0	54	70	948	207	53	2	1	1,335	
2016	Average Benefit Received	\$ -	\$ -	\$ 950	\$ 1,527	\$ 1,678	\$ 2,444	\$ 2,982	\$ 3,750	\$ 4,912	\$ 1,814	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,307	\$ 3,843	\$ 3,232	\$ 3,910	\$ 4,017	\$ 4,455	\$ 5,808	\$ 3,402	
	Number of Retirees	0	0	53	65	956	204	51	2	1	1,332	
2015	Average Benefit Received	\$ -	\$ -	\$ 919	\$ 1,517	\$ 1,647	\$ 2,387	\$ 2,938	\$ 3,695	\$ 4,840	\$ 1,781	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,245	\$ 3,844	\$ 3,198	\$ 3,870	\$ 4,017	\$ 4,455	\$ 5,808	\$ 3,367	
	Number of Retirees	0	0	51	60	959	202	51	2	1	1,326	
2014	Average Benefit Received	\$ -	\$ -	\$ 900	\$ 1,534	\$ 1,629	\$ 2,371	\$ 2,936	\$ 3,695	\$ 4,066	\$ 1,767	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,218	\$ 3,855	\$ 3,159	\$ 3,834	\$ 4,005	\$ 4,455	\$ 5,005	\$ 3,331	
	Number of Retirees	0	0	49	57	960	201	50	2	2	1,321	
2013	Average Benefit Received	\$ -	\$ -	\$ 876	\$ 1,521	\$ 1,604	\$ 2,278	\$ 2,858	\$ 3,640	\$ 4,542	\$ 1,736	
	Average Final Average Compensation	\$ -	\$ -	\$ 3,133	\$ 3,851	\$ 3,120	\$ 3,693	\$ 3,962	\$ 4,455	\$ 5,577	\$ 3,277	
	Number of Retirees	0	0	46	52	947	194	49	2	4	1,294	
2012	Average Benefit Received	\$ 1,645	\$ -	\$ 873	\$ 1,510	\$ 1,577	\$ 2,244	\$ 2,850	\$ 3,640	\$ 4,542	\$ 1,708	
	Average Final Average Compensation	\$ 3,474	\$ -	\$ 3,078	\$ 3,847	\$ 3,060	\$ 3,626	\$ 3,922	\$ 4,455	\$ 5,577	\$ 3,217	
	Number of Retirees	1	0	44	50	948	191	47	2	4	1,287	

Ten Years Ended June 30, 2021

Average Benefit Received	\$ 1,645	\$ -	\$ 930	\$ 1,531	\$ 1,667	\$ 2,420	\$ 3,042	\$ 3,528	\$ 4,634	\$ 1,808
Average Final Average Compensation	\$ 3,474	\$ -	\$ 3,251	\$ 3,856	\$ 3,230	\$ 3,891	\$ 4,104	\$ 4,640	\$ 5,605	\$ 3,401

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Corrections Employees Secondary (Hired on or after January 1, 2002)

		Years of Service Credit											
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+	All Members		
2021	Average Benefit Received	\$	-	\$	-	\$ 1,197	\$ 1,969	\$ 2,474	\$ 3,689	\$ 4,670	\$ 5,413	\$ 7,679	\$ 3,234
	Average Final Average Compensation	\$	-	\$	-	\$ 3,567	\$ 4,259	\$ 4,513	\$ 5,318	\$ 6,181	\$ 6,857	\$ 8,971	\$ 5,052
	Number of Retirees		0		0	128	120	159	569	138	31	2	1,147
2020	Average Benefit Received	\$	-	\$	-	\$ 1,212	\$ 1,910	\$ 2,442	\$ 3,610	\$ 4,542	\$ 5,062	\$ 7,835	\$ 3,145
	Average Final Average Compensation	\$	-	\$	-	\$ 3,588	\$ 4,194	\$ 4,513	\$ 5,276	\$ 6,072	\$ 6,519	\$ 9,496	\$ 4,995
	Number of Retirees		0		0	124	107	154	518	123	28	3	1,057
2019	Average Benefit Received	\$	-	\$	-	\$ 1,184	\$ 1,875	\$ 2,385	\$ 3,536	\$ 4,442	\$ 4,856	\$ 7,835	\$ 3,060
	Average Final Average Compensation	\$	-	\$	-	\$ 3,544	\$ 4,156	\$ 4,470	\$ 5,226	\$ 6,040	\$ 6,351	\$ 9,496	\$ 4,934
	Number of Retirees		0		0	118	95	140	471	109	22	3	958
2018	Average Benefit Received	\$	-	\$	-	\$ 1,173	\$ 1,828	\$ 2,340	\$ 3,479	\$ 4,437	\$ 4,868	\$ 7,835	\$ 3,021
	Average Final Average Compensation	\$	-	\$	-	\$ 3,541	\$ 4,116	\$ 4,455	\$ 5,194	\$ 6,036	\$ 6,317	\$ 9,496	\$ 4,913
	Number of Retirees		0		0	109	90	135	442	104	20	3	903
2017	Average Benefit Received	\$	-	\$	-	\$ 1,169	\$ 1,849	\$ 2,334	\$ 3,418	\$ 4,325	\$ 4,829	\$ 7,679	\$ 2,960
	Average Final Average Compensation	\$	-	\$	-	\$ 3,533	\$ 4,149	\$ 4,430	\$ 5,149	\$ 5,963	\$ 6,204	\$ 8,971	\$ 4,864
	Number of Retirees		0		0	92	83	133	385	91	16	2	802
2016	Average Benefit Received	\$	-	\$	-	\$ 1,132	\$ 1,813	\$ 2,298	\$ 3,311	\$ 4,288	\$ 4,779	\$ 7,679	\$ 2,876
	Average Final Average Compensation	\$	-	\$	-	\$ 3,492	\$ 4,125	\$ 4,416	\$ 5,080	\$ 5,918	\$ 5,995	\$ 8,971	\$ 4,805
	Number of Retirees		0		0	79	79	126	332	82	13	2	713
2015	Average Benefit Received	\$	-	\$	-	\$ 1,106	\$ 1,732	\$ 2,249	\$ 3,255	\$ 4,248	\$ 4,485	\$ 7,604	\$ 2,781
	Average Final Average Compensation	\$	-	\$	-	\$ 3,513	\$ 4,082	\$ 4,395	\$ 5,059	\$ 5,939	\$ 5,771	\$ 8,971	\$ 4,761
	Number of Retirees		0		0	71	70	125	273	69	11	2	621
2014	Average Benefit Received	\$	-	\$	-	\$ 1,072	\$ 1,703	\$ 2,249	\$ 3,152	\$ 4,255	\$ 4,248	\$ 9,800	\$ 2,680
	Average Final Average Compensation	\$	-	\$	-	\$ 3,436	\$ 4,082	\$ 4,407	\$ 5,008	\$ 5,942	\$ 5,569	\$ 12,534	\$ 4,701
	Number of Retirees		0		0	63	61	118	223	57	6	1	529
2013	Average Benefit Received	\$	-	\$	-	\$ 1,047	\$ 1,667	\$ 2,193	\$ 3,067	\$ 4,280	\$ 4,676	\$ -	\$ 2,572
	Average Final Average Compensation	\$	-	\$	-	\$ 3,440	\$ 4,055	\$ 4,323	\$ 4,999	\$ 5,997	\$ 6,135	\$ -	\$ 4,639
	Number of Retirees		0		0	59	53	108	179	48	4	0	451
2012	Average Benefit Received	\$	-	\$	-	\$ 1,062	\$ 1,648	\$ 2,106	\$ 2,954	\$ 4,338	\$ 4,667	\$ -	\$ 2,525
	Average Final Average Compensation	\$	-	\$	-	\$ 3,495	\$ 4,050	\$ 4,282	\$ 4,962	\$ 6,111	\$ 6,340	\$ -	\$ 4,644
	Number of Retirees		0		0	42	43	88	146	37	3	0	359

Ten Years Ended June 30, 2021

Average Benefit Received	\$ -	\$ -	\$ 1,153	\$ 1,828	\$ 2,323	\$ 3,437	\$ 4,424	\$ 4,939	\$ 7,867	\$ 2,961
Average Final Average Compensation	\$ -	\$ -	\$ 3,528	\$ 4,144	\$ 4,431	\$ 5,173	\$ 6,033	\$ 6,356	\$ 9,431	\$ 4,876

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Peace Officers (Hired before January 1, 2011)

		Years of Service Credit										All Members				
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+						
2021	Average Benefit Received	\$	-	\$	-	\$ 1,547	\$ 1,834	\$ 2,224	\$ 3,601	\$ 4,406	\$	-	\$ 4,688	\$	3,145	
	Average Final Average Compensation	\$	-	\$	-	\$ 4,457	\$ 3,607	\$ 4,586	\$ 4,538	\$ 4,882	\$	-	\$ 5,285	\$	4,604	
	Number of Retirees		0		0	13	4	9	11	22		0		1		60
2020	Average Benefit Received	\$	-	\$	-	\$ 1,527	\$ 1,839	\$ 2,221	\$ 3,601	\$ 4,269	\$	-	\$ 8,745	\$	3,190	
	Average Final Average Compensation	\$	-	\$	-	\$ 4,323	\$ 3,634	\$ 4,586	\$ 4,538	\$ 4,752	\$	-	\$ 5,285	\$	4,545	
	Number of Retirees		0		0	12	3	9	11	21		0		1		57
2019	Average Benefit Received	\$	-	\$	-	\$ 1,527	\$ 1,802	\$ 2,266	\$ 3,524	\$ 4,149	\$	-	\$ 8,745	\$	3,129	
	Average Final Average Compensation	\$	-	\$	-	\$ 4,323	\$ 3,634	\$ 4,586	\$ 4,481	\$ 4,612	\$	-	\$ 5,285	\$	4,482	
	Number of Retirees		0		0	12	3	9	10	21		0		1		56
2018	Average Benefit Received	\$	-	\$	-	\$ 1,522	\$ 2,011	\$ 2,392	\$ 3,504	\$ 4,135	\$	-	\$ 8,745	\$	3,145	
	Average Final Average Compensation	\$	-	\$	-	\$ 4,243	\$ 3,749	\$ 4,295	\$ 4,437	\$ 4,601	\$	-	\$ 5,285	\$	4,422	
	Number of Retirees		0		0	13	2	7	9	20		0		1		52
2017	Average Benefit Received	\$	-	\$	-	\$ 1,527	\$ 2,011	\$ 2,101	\$ 3,504	\$ 4,089	\$	-	\$ 8,745	\$	3,121	
	Average Final Average Compensation	\$	-	\$	-	\$ 4,323	\$ 3,749	\$ 4,138	\$ 4,437	\$ 4,561	\$	-	\$ 5,285	\$	4,410	
	Number of Retirees		0		0	12	2	6	9	19		0		1		49
2016	Average Benefit Received	\$	-	\$	-	\$ 1,527	\$ 2,011	\$ 2,101	\$ 3,341	\$ 4,042	\$	-	\$ 8,745	\$	3,046	
	Average Final Average Compensation	\$	-	\$	-	\$ 4,323	\$ 3,749	\$ 4,138	\$ 4,318	\$ 4,540	\$	-	\$ 5,285	\$	4,378	
	Number of Retirees		0		0	12	2	6	8	18		0		1		47
2015	Average Benefit Received	\$	-	\$	-	\$ 1,500	\$ 1,982	\$ 2,061	\$ 3,298	\$ 4,010	\$	-	\$ 8,675	\$	3,039	
	Average Final Average Compensation	\$	-	\$	-	\$ 4,258	\$ 3,749	\$ 4,138	\$ 4,214	\$ 4,540	\$	-	\$ 5,285	\$	4,348	
	Number of Retirees		0		0	11	2	6	7	18		0		1		45
2014	Average Benefit Received	\$	-	\$	-	\$ 1,555	\$ 1,982	\$ 2,258	\$ 3,298	\$ 3,831	\$	-	\$ 8,675	\$	3,001	
	Average Final Average Compensation	\$	-	\$	-	\$ 4,243	\$ 3,749	\$ 4,222	\$ 4,214	\$ 4,289	\$	-	\$ 5,285	\$	4,254	
	Number of Retirees		0		0	10	2	5	7	15		0		1		40
2013	Average Benefit Received	\$	-	\$	-	\$ 1,532	\$ 1,952	\$ 2,338	\$ 3,219	\$ 3,622	\$	-	\$ 8,675	\$	2,879	
	Average Final Average Compensation	\$	-	\$	-	\$ 4,243	\$ 3,749	\$ 4,252	\$ 4,158	\$ 4,056	\$	-	\$ 5,285	\$	4,164	
	Number of Retirees		0		0	10	2	4	6	13		0		1		36
2012	Average Benefit Received	\$	-	\$	-	\$ 1,435	\$ 1,952	\$ 2,338	\$ 3,219	\$ 3,658	\$	-	\$	-	\$	2,776
	Average Final Average Compensation	\$	-	\$	-	\$ 4,078	\$ 3,749	\$ 4,252	\$ 4,158	\$ 4,056	\$	-	\$	-	\$	4,085
	Number of Retirees		0		0	8	2	4	6	13		0		0		33

Ten Years Ended June 30, 2021

Average Benefit Received	\$ -	\$ -	\$ 1,523	\$ 1,919	\$ 2,226	\$ 3,441	\$ 4,062	\$ -	\$ 8,271	\$ 3,068
Average Final Average Compensation	\$ -	\$ -	\$ 4,291	\$ 3,697	\$ 4,361	\$ 4,380	\$ 4,533	\$ -	\$ 5,285	\$ 4,397

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Summary of Appellate Law Clerks

		Years of Service Credit									All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+	
2021	Average Benefit Received	\$ -	\$ -	\$1,888	\$ 2,905	\$ 3,785	\$ 4,332	\$5,942	\$ 8,310	\$ -	\$ 4,381
	Average Final Average Compensation	\$ -	\$ -	\$5,602	\$ 6,426	\$ 7,030	\$ 7,306	\$7,973	\$ 9,015	\$ -	\$ 7,186
	Number of Retirees	0	0	5	20	13	9	12	8	0	67
2020	Average Benefit Received	\$ -	\$ -	\$1,888	\$ 2,838	\$ 3,784	\$ 4,332	\$5,927	\$ 8,310	\$ -	\$ 4,500
	Average Final Average Compensation	\$ -	\$ -	\$5,602	\$ 6,193	\$ 7,024	\$ 7,306	\$7,935	\$ 9,015	\$ -	\$ 7,184
	Number of Retirees	0	0	5	16	11	9	13	8	0	62
2019	Average Benefit Received	\$ -	\$ -	\$1,888	\$ 2,838	\$ 3,741	\$ 4,351	\$5,733	\$ 8,201	\$ -	\$ 4,356
	Average Final Average Compensation	\$ -	\$ -	\$5,602	\$ 6,193	\$ 7,024	\$ 7,388	\$7,814	\$ 8,953	\$ -	\$ 7,117
	Number of Retirees	0	0	5	16	11	8	12	7	0	59
2018	Average Benefit Received	\$ -	\$ -	\$1,775	\$ 2,813	\$ 3,802	\$ 4,351	\$5,527	\$ 7,871	\$ -	\$ 4,332
	Average Final Average Compensation	\$ -	\$ -	\$5,338	\$ 6,164	\$ 7,105	\$ 7,388	\$7,637	\$ 8,743	\$ -	\$ 7,082
	Number of Retirees	0	0	5	14	12	8	10	8	0	57
2017	Average Benefit Received	\$ -	\$ -	\$1,777	\$ 2,702	\$ 3,768	\$ 4,342	\$5,503	\$ 7,510	\$ -	\$ 4,232
	Average Final Average Compensation	\$ -	\$ -	\$5,325	\$ 5,935	\$ 7,133	\$ 7,350	\$7,653	\$ 8,410	\$ -	\$ 6,989
	Number of Retirees	0	0	4	11	11	6	9	6	0	47
2016	Average Benefit Received	\$ -	\$ -	\$1,777	\$ 2,637	\$ 3,814	\$ 4,342	\$5,482	\$ 7,562	\$ -	\$ 3,916
	Average Final Average Compensation	\$ -	\$ -	\$5,325	\$ 5,848	\$ 7,172	\$ 7,350	\$7,595	\$ 8,618	\$ -	\$ 6,840
	Number of Retirees	0	0	4	10	10	6	8	2	0	40
2015	Average Benefit Received	\$ -	\$ -	\$1,756	\$ 2,621	\$ 3,724	\$ 4,288	\$5,372	\$ 7,487	\$ -	\$ 3,822
	Average Final Average Compensation	\$ -	\$ -	\$5,325	\$ 5,848	\$ 6,883	\$ 7,350	\$7,612	\$ 8,618	\$ -	\$ 6,738
	Number of Retirees	0	0	4	10	7	6	7	2	0	36
2014	Average Benefit Received	\$ -	\$ -	\$1,806	\$ 2,432	\$ 3,724	\$ 4,282	\$5,308	\$ 7,487	\$ -	\$ 3,837
	Average Final Average Compensation	\$ -	\$ -	\$5,271	\$ 5,585	\$ 6,635	\$ 7,178	\$7,645	\$ 8,618	\$ -	\$ 6,625
	Number of Retirees	0	0	3	8	5	4	6	2	0	28
2013	Average Benefit Received	\$ -	\$ -	\$1,795	\$ 2,595	\$ 3,840	\$ 4,063	\$4,207	\$ 5,406	\$ -	\$ 3,292
	Average Final Average Compensation	\$ -	\$ -	\$5,271	\$ 5,813	\$ 6,787	\$ 7,217	\$7,355	\$ 7,277	\$ -	\$ 6,412
	Number of Retirees	0	0	3	7	4	3	3	1	0	21
2012	Average Benefit Received	\$ -	\$ -	\$2,032	\$ 2,464	\$ 3,944	\$ 4,446	\$4,906	\$ 5,406	\$ -	\$ 3,387
	Average Final Average Compensation	\$ -	\$ -	\$5,930	\$ 5,837	\$ 7,038	\$ 7,255	\$6,833	\$ 7,277	\$ -	\$ 6,484
	Number of Retirees	0	0	2	5	3	2	1	1	0	14

Ten Years Ended June 30, 2021

Average Benefit Received	\$ -	\$ -	\$ 1,833	\$ 2,740	\$ 3,782	\$ 4,322	\$ 5,590	\$ 7,873	\$ -	\$ 4,162
Average Final Average Compensation	\$ -	\$ -	\$ 5,453	\$ 6,067	\$ 7,023	\$ 7,326	\$ 7,737	\$ 8,746	\$ -	\$ 6,974

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Appellate Law Clerks (Hired before July 1, 2006)

		Years of Service Credit									All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+	
2021	Average Benefit Received	\$ -	\$ -	\$ 1,852	\$ 2,905	\$ 3,785	\$ 4,332	\$ 5,942	\$ 8,310	\$ -	\$ 4,416
	Average Final Average Compensation	\$ -	\$ -	\$ 5,320	\$ 6,426	\$ 7,030	\$ 7,306	\$ 7,973	\$ 9,015	\$ -	\$ 7,193
	Number of Retirees	0	0	4	20	13	9	12	8	0	66
2020	Average Benefit Received	\$ -	\$ -	\$ 1,852	\$ 2,838	\$ 3,784	\$ 4,332	\$ 5,927	\$ 8,310	\$ -	\$ 4,540
	Average Final Average Compensation	\$ -	\$ -	\$ 5,320	\$ 6,193	\$ 7,024	\$ 7,306	\$ 7,935	\$ 9,015	\$ -	\$ 7,191
	Number of Retirees	0	0	4	16	11	9	13	8	0	61
2019	Average Benefit Received	\$ -	\$ -	\$ 1,852	\$ 2,838	\$ 3,741	\$ 4,351	\$ 5,733	\$ 8,201	\$ -	\$ 4,396
	Average Final Average Compensation	\$ -	\$ -	\$ 5,320	\$ 6,193	\$ 7,024	\$ 7,388	\$ 7,814	\$ 8,953	\$ -	\$ 7,124
	Number of Retirees	0	0	4	16	11	8	12	7	0	58
2018	Average Benefit Received	\$ -	\$ -	\$ 1,775	\$ 2,813	\$ 3,802	\$ 4,351	\$ 5,527	\$ 7,871	\$ -	\$ 4,332
	Average Final Average Compensation	\$ -	\$ -	\$ 5,338	\$ 6,164	\$ 7,105	\$ 7,388	\$ 7,637	\$ 8,743	\$ -	\$ 7,082
	Number of Retirees	0	0	5	14	12	8	10	8	0	57
2017	Average Benefit Received	\$ -	\$ -	\$ 1,777	\$ 2,702	\$ 3,768	\$ 4,342	\$ 5,503	\$ 7,510	\$ -	\$ 4,232
	Average Final Average Compensation	\$ -	\$ -	\$ 5,325	\$ 5,935	\$ 7,133	\$ 7,350	\$ 7,653	\$ 8,410	\$ -	\$ 6,989
	Number of Retirees	0	0	4	11	11	6	9	6	0	47
2016	Average Benefit Received	\$ -	\$ -	\$ 1,777	\$ 2,637	\$ 3,814	\$ 4,342	\$ 5,482	\$ 7,562	\$ -	\$ 3,916
	Average Final Average Compensation	\$ -	\$ -	\$ 5,325	\$ 5,848	\$ 7,172	\$ 7,350	\$ 7,595	\$ 8,618	\$ -	\$ 6,840
	Number of Retirees	0	0	4	10	10	6	8	2	0	40
2015	Average Benefit Received	\$ -	\$ -	\$ 1,756	\$ 2,621	\$ 3,724	\$ 4,288	\$ 5,372	\$ 7,487	\$ -	\$ 3,822
	Average Final Average Compensation	\$ -	\$ -	\$ 5,325	\$ 5,848	\$ 6,883	\$ 7,350	\$ 7,612	\$ 8,618	\$ -	\$ 6,738
	Number of Retirees	0	0	4	10	7	6	7	2	0	36
2014	Average Benefit Received	\$ -	\$ -	\$ 1,806	\$ 2,432	\$ 3,724	\$ 4,282	\$ 5,308	\$ 7,487	\$ -	\$ 3,837
	Average Final Average Compensation	\$ -	\$ -	\$ 5,271	\$ 5,585	\$ 6,635	\$ 7,178	\$ 7,645	\$ 8,618	\$ -	\$ 6,625
	Number of Retirees	0	0	3	8	5	4	6	2	0	28
2013	Average Benefit Received	\$ -	\$ -	\$ 1,795	\$ 2,595	\$ 3,840	\$ 4,063	\$ 4,207	\$ 5,406	\$ -	\$ 3,292
	Average Final Average Compensation	\$ -	\$ -	\$ 5,271	\$ 5,813	\$ 6,787	\$ 7,217	\$ 7,355	\$ 7,277	\$ -	\$ 6,412
	Number of Retirees	0	0	3	7	4	3	3	1	0	21
2012	Average Benefit Received	\$ -	\$ -	\$ 2,032	\$ 2,464	\$ 3,944	\$ 4,446	\$ 4,906	\$ 5,406	\$ -	\$ 3,387
	Average Final Average Compensation	\$ -	\$ -	\$ 5,930	\$ 5,837	\$ 7,038	\$ 7,255	\$ 6,833	\$ 7,277	\$ -	\$ 6,484
	Number of Retirees	0	0	2	5	3	2	1	1	0	14

Ten Years Ended June 30, 2021

Average Benefit Received	\$ -	\$ -	\$ 1,816	\$ 2,740	\$ 3,782	\$ 4,322	\$ 5,590	\$ 7,873	\$ -	\$ 4,176
Average Final Average Compensation	\$ -	\$ -	\$ 5,349	\$ 6,067	\$ 7,023	\$ 7,326	\$ 7,737	\$ 8,746	\$ -	\$ 6,976

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Appellate Law Clerks (Hired between July 1, 2006 and December 31, 2010)

		Years of Service Credit										All Members				
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+						
2021	Average Benefit Received	\$	-	\$	-	\$ 2,036	\$	-	\$	-	\$	-	\$	-	\$	2,036
	Average Final Average Compensation	\$	-	\$	-	\$ 6,729	\$	-	\$	-	\$	-	\$	-	\$	6,729
	Number of Retirees		0		0		1		0		0		0		0	
2020	Average Benefit Received	\$	-	\$	-	\$ 2,036	\$	-	\$	-	\$	-	\$	-	\$	2,036
	Average Final Average Compensation	\$	-	\$	-	\$ 6,729	\$	-	\$	-	\$	-	\$	-	\$	6,729
	Number of Retirees		0		0		1		0		0		0		0	
2019	Average Benefit Received	\$	-	\$	-	\$ 2,036	\$	-	\$	-	\$	-	\$	-	\$	2,036
	Average Final Average Compensation	\$	-	\$	-	\$ 6,729	\$	-	\$	-	\$	-	\$	-	\$	6,729
	Number of Retirees		0		0		1		0		0		0		0	
2012-2018	Average Benefit Received	No Activity														
	Average Final Average Compensation	No Activity														
	Number of Retirees	No Activity														

Ten Years Ended June 30, 2021												
Average Benefit Received		\$ -	\$ -	\$ 2,036	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2,036
Average Final Average Compensation		\$ -	\$ -	\$ 6,729	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6,729

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Alcohol and Tobacco Control (Hired after June 30, 2007)

		Years of Service Credit										All Members					
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+							
2021	Average Benefit Received	\$	-	\$	-	\$ 2,011	\$ 4,617	\$ 4,375	\$ 4,581	\$	-	\$	-	\$	4,332		
	Average Final Average Compensation	\$	-	\$	-	\$ 4,258	\$ 9,103	\$ 5,586	\$ 5,600	\$	-	\$	-	\$	5,795		
	Number of Retirees		0		0	1	1	1	8		0		0	0	11		
2020	Average Benefit Received	\$	-	\$	-	\$ 2,011	\$ 4,617	\$ 4,375	\$ 4,864	\$	-	\$	-	\$	4,505		
	Average Final Average Compensation	\$	-	\$	-	\$ 4,258	\$ 9,103	\$ 5,586	\$ 5,650	\$	-	\$	-	\$	5,850		
	Number of Retirees		0		0	1	1	1	7		0		0	0	10		
2019	Average Benefit Received	\$	-	\$	-	\$ 2,011	\$ 4,617	\$ 4,375	\$ 4,100	\$	-	\$	-	\$	3,956		
	Average Final Average Compensation	\$	-	\$	-	\$ 4,258	\$ 9,103	\$ 5,586	\$ 4,788	\$	-	\$	-	\$	5,297		
	Number of Retirees		0		0	1	1	1	6		0		0	0	9		
2018	Average Benefit Received	\$	-	\$	-	\$ 2,011	\$ 4,617	\$ 4,375	\$ 4,088	\$	-	\$	-	\$	3,948		
	Average Final Average Compensation	\$	-	\$	-	\$ 4,258	\$ 9,103	\$ 5,586	\$ 4,788	\$	-	\$	-	\$	5,297		
	Number of Retirees		0		0	1	1	1	6		0		0	0	9		
2017	Average Benefit Received	\$	-	\$	-	\$ 2,011	\$ 4,617	\$ 4,375	\$ 3,726	\$	-	\$	-	\$	3,704		
	Average Final Average Compensation	\$	-	\$	-	\$ 4,258	\$ 9,103	\$ 5,586	\$ 4,629	\$	-	\$	-	\$	5,261		
	Number of Retirees		0		0	1	1	1	5		0		0	0	8		
2016	Average Benefit Received	\$	-	\$	-	\$ 2,011	\$ 4,617	\$ 4,375	\$ 3,700	\$	-	\$	-	\$	3,688		
	Average Final Average Compensation	\$	-	\$	-	\$ 4,258	\$ 9,103	\$ 5,586	\$ 4,506	\$	-	\$	-	\$	5,185		
	Number of Retirees		0		0	1	1	1	5		0		0	0	8		
2015	Average Benefit Received	\$	-	\$	-	\$ 1,981	\$ 4,548	\$ 4,375	\$ 3,700	\$	-	\$	-	\$	3,676		
	Average Final Average Compensation	\$	-	\$	-	\$ 4,258	\$ 9,103	\$ 5,586	\$ 4,506	\$	-	\$	-	\$	5,185		
	Number of Retirees		0		0	1	1	1	5		0		0	0	8		
2014	Average Benefit Received	\$	-	\$	-	\$ 1,981	\$ 4,548	\$ 4,375	\$ 3,554	\$	-	\$	-	\$	3,589		
	Average Final Average Compensation	\$	-	\$	-	\$ 4,258	\$ 9,103	\$ 5,586	\$ 4,445	\$	-	\$	-	\$	5,247		
	Number of Retirees		0		0	1	1	1	4		0		0	0	7		
2013	Average Benefit Received	\$	-	\$	-	\$ 1,952	\$ 4,481	\$	-	\$ 3,649	\$	-	\$	-	\$ 3,433		
	Average Final Average Compensation	\$	-	\$	-	\$ 4,258	\$ 9,103	\$	-	\$ 4,740	\$	-	\$	-	\$ 5,710		
	Number of Retirees		0		0	1	1	0	2		0		0	0	4		
2012	Average Benefit Received	\$	-	\$	-	\$ 1,604	\$	-	\$	-	\$ 2,976	\$	-	\$ 3,970	\$	-	\$ 2,882
	Average Final Average Compensation	\$	-	\$	-	\$ 4,754	\$	-	\$	-	\$ 4,425	\$	-	\$ 4,889	\$	-	\$ 4,623
	Number of Retirees		0		0	1	0	0	2		0		1	0	4		

Ten Years Ended June 30, 2021

Average Benefit Received	\$ -	\$ -	\$ 1,958	\$ 4,587	\$ 4,375	\$ 4,058	\$ -	\$ 3,970	\$ -	\$ 3,734
Average Final Average Compensation	\$ -	\$ -	\$ 4,308	\$ 9,103	\$ 5,586	\$ 4,922	\$ -	\$ 4,889	\$ -	\$ 5,394

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Summary of Wildlife Agents

		Years of Service Credit										All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+		
2021	Average Benefit Received	\$ -	\$ -	\$ 887	\$ 2,478	\$ 2,958	\$ 4,467	\$ 5,075	\$ 5,278	\$ 6,736	\$ 3,768	
	Average Final Average Compensation	\$ -	\$ -	\$ 2,764	\$ 4,148	\$ 4,388	\$ 5,148	\$ 5,303	\$ 6,091	\$ 7,505	\$ 4,798	
	Number of Retirees	0	0	1	7	89	66	21	3	2	189	
2020	Average Benefit Received	\$ -	\$ -	\$ 887	\$ 2,478	\$ 2,866	\$ 4,388	\$ 5,075	\$ 2,237	\$ 6,736	\$ 3,668	
	Average Final Average Compensation	\$ -	\$ -	\$ 2,764	\$ 4,148	\$ 4,302	\$ 5,046	\$ 5,303	\$ 3,061	\$ 7,505	\$ 4,688	
	Number of Retirees	0	0	1	7	89	69	21	2	2	191	
2019	Average Benefit Received	\$ -	\$ -	\$ 887	\$ 2,478	\$ 2,794	\$ 4,245	\$ 4,970	\$ 2,237	\$ 6,736	\$ 3,567	
	Average Final Average Compensation	\$ -	\$ -	\$ 2,764	\$ 4,148	\$ 4,202	\$ 4,891	\$ 5,136	\$ 3,061	\$ 7,505	\$ 4,565	
	Number of Retirees	0	0	1	7	90	69	21	2	2	192	
2018	Average Benefit Received	\$ -	\$ -	\$ -	\$ 2,478	\$ 2,741	\$ 4,041	\$ 4,909	\$ 2,237	\$ 6,736	\$ 3,463	
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 4,148	\$ 4,078	\$ 4,696	\$ 5,136	\$ 3,061	\$ 7,505	\$ 4,439	
	Number of Retirees	0	0	0	7	91	66	21	2	2	189	
2017	Average Benefit Received	\$ -	\$ -	\$ -	\$ 2,356	\$ 2,610	\$ 3,716	\$ 4,909	\$ 2,237	\$ 6,736	\$ 3,299	
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 3,963	\$ 3,894	\$ 4,342	\$ 5,136	\$ 3,061	\$ 7,505	\$ 4,228	
	Number of Retirees	0	0	0	7	87	67	21	2	2	186	
2016	Average Benefit Received	\$ -	\$ -	\$ -	\$ 2,356	\$ 2,541	\$ 3,557	\$ 4,909	\$ 2,237	\$ 6,736	\$ 3,222	
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 3,963	\$ 3,812	\$ 4,248	\$ 5,136	\$ 3,061	\$ 7,505	\$ 4,159	
	Number of Retirees	0	0	0	7	87	74	21	2	2	193	
2015	Average Benefit Received	\$ -	\$ -	\$ -	\$ 2,117	\$ 2,491	\$ 3,417	\$ 4,851	\$ 2,204	\$ 6,680	\$ 3,139	
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 3,644	\$ 3,697	\$ 4,210	\$ 5,136	\$ 3,061	\$ 7,505	\$ 4,085	
	Number of Retirees	0	0	0	6	87	77	21	2	2	195	
2014	Average Benefit Received	\$ -	\$ -	\$ -	\$ 1,792	\$ 2,374	\$ 3,317	\$ 4,851	\$ 2,204	\$ 6,680	\$ 3,053	
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 3,271	\$ 3,594	\$ 4,044	\$ 5,136	\$ 3,061	\$ 7,505	\$ 3,971	
	Number of Retirees	0	0	0	5	84	76	21	2	2	190	
2013	Average Benefit Received	\$ -	\$ -	\$ -	\$ 1,621	\$ 2,205	\$ 3,181	\$ 4,798	\$ 2,171	\$ 6,601	\$ 2,925	
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 2,936	\$ 3,450	\$ 3,969	\$ 5,033	\$ 3,061	\$ 7,505	\$ 3,864	
	Number of Retirees	0	0	0	6	79	76	21	2	2	186	
2012	Average Benefit Received	\$ -	\$ -	\$ -	\$ 1,597	\$ 2,056	\$ 3,037	\$ 4,751	\$ 2,171	\$ 2,434	\$ 2,761	
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 2,885	\$ 3,230	\$ 3,792	\$ 4,998	\$ 3,061	\$ 4,024	\$ 3,656	
	Number of Retirees	0	0	0	7	73	77	20	2	1	180	

Ten Years Ended June 30, 2021

Average Benefit Received	\$ -	\$ -	887	\$ 2,196	\$ 2,579	\$ 3,710	\$ 4,911	\$ 2,653	\$ 6,484	\$ 3,290
Average Final Average Compensation	\$ -	\$ -	\$ 2,764	\$ 3,752	\$ 3,884	\$ 4,415	\$ 5,146	\$ 3,494	\$ 7,322	\$ 4,249

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Wildlife Agents (Hired before July 1, 2003)

		Years of Service Credit										All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+		
2021	Average Benefit Received	\$ -	\$ -	\$ 887	\$ 1,504	\$ 1,783	\$ 2,539	\$ 3,354	\$ 2,237	\$ 2,507	\$ 2,129	
	Average Final Average Compensation	\$ -	\$ -	\$ 2,764	\$ 2,865	\$ 2,740	\$ 3,068	\$ 4,285	\$ 3,061	\$ 4,024	\$ 2,991	
	Number of Retirees	0	0	1	3	40	22	6	2	1	75	
2020	Average Benefit Received	\$ -	\$ -	\$ 887	\$ 1,504	\$ 1,780	\$ 2,520	\$ 3,354	\$ 2,237	\$ 2,507	\$ 2,123	
	Average Final Average Compensation	\$ -	\$ -	\$ 2,764	\$ 2,865	\$ 2,778	\$ 3,019	\$ 4,285	\$ 3,061	\$ 4,024	\$ 2,992	
	Number of Retirees	0	0	1	3	42	24	6	2	1	79	
2019	Average Benefit Received	\$ -	\$ -	\$ 887	\$ 1,504	\$ 1,785	\$ 2,547	\$ 3,354	\$ 2,237	\$ 2,507	\$ 2,145	
	Average Final Average Compensation	\$ -	\$ -	\$ 2,764	\$ 2,865	\$ 2,763	\$ 3,045	\$ 4,408	\$ 3,061	\$ 4,024	\$ 3,013	
	Number of Retirees	0	0	1	3	44	25	7	2	1	83	
2018	Average Benefit Received	\$ -	\$ -	\$ -	\$ 1,504	\$ 1,806	\$ 2,500	\$ 3,402	\$ 2,237	\$ 2,507	\$ 2,161	
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 2,865	\$ 2,775	\$ 2,961	\$ 4,408	\$ 3,061	\$ 4,024	\$ 2,991	
	Number of Retirees	0	0	0	3	46	27	7	2	1	86	
2017	Average Benefit Received	\$ -	\$ -	\$ -	\$ 1,219	\$ 1,809	\$ 2,476	\$ 3,402	\$ 2,237	\$ 2,507	\$ 2,156	
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 2,434	\$ 2,780	\$ 2,877	\$ 4,408	\$ 3,061	\$ 4,024	\$ 2,944	
	Number of Retirees	0	0	0	3	48	32	7	2	1	93	
2016	Average Benefit Received	\$ -	\$ -	\$ -	\$ 1,219	\$ 1,797	\$ 2,401	\$ 3,402	\$ 2,237	\$ 2,507	\$ 2,137	
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 2,434	\$ 2,740	\$ 2,961	\$ 4,408	\$ 3,061	\$ 4,024	\$ 2,949	
	Number of Retirees	0	0	0	3	50	39	7	2	1	102	
2015	Average Benefit Received	\$ -	\$ -	\$ -	\$ 1,201	\$ 1,755	\$ 2,350	\$ 3,352	\$ 2,204	\$ 2,470	\$ 2,092	
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 2,434	\$ 2,688	\$ 3,055	\$ 4,408	\$ 3,061	\$ 4,024	\$ 2,955	
	Number of Retirees	0	0	0	3	53	43	7	2	1	109	
2014	Average Benefit Received	\$ -	\$ -	\$ -	\$ 1,201	\$ 1,751	\$ 2,320	\$ 3,352	\$ 2,204	\$ 2,470	\$ 2,079	
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 2,434	\$ 2,674	\$ 2,987	\$ 4,408	\$ 3,061	\$ 4,024	\$ 2,921	
	Number of Retirees	0	0	0	3	54	45	7	2	1	112	
2013	Average Benefit Received	\$ -	\$ -	\$ -	\$ 1,113	\$ 1,730	\$ 2,264	\$ 3,302	\$ 2,171	\$ 2,434	\$ 2,036	
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 2,141	\$ 2,753	\$ 3,014	\$ 4,408	\$ 3,061	\$ 4,024	\$ 2,954	
	Number of Retirees	0	0	0	4	55	48	7	2	1	117	
2012	Average Benefit Received	\$ -	\$ -	\$ -	\$ 1,181	\$ 1,724	\$ 2,251	\$ 3,302	\$ 2,171	\$ 2,434	\$ 2,028	
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 2,228	\$ 2,727	\$ 2,969	\$ 4,408	\$ 3,061	\$ 4,024	\$ 2,921	
	Number of Retirees	0	0	0	5	56	52	7	2	1	123	

Ten Years Ended June 30, 2021

Average Benefit Received	\$ -	\$ -	\$ 887	\$ 1,301	\$ 1,770	\$ 2,385	\$ 3,358	\$ 2,217	\$ 2,485	\$ 2,102
Average Final Average Compensation	\$ -	\$ -	\$ 2,764	\$ 2,524	\$ 2,740	\$ 2,993	\$ 4,386	\$ 3,061	\$ 4,024	\$ 2,959

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Wildlife Agents (Hired on or after July 1, 2003)

		Years of Service Credit										All Members									
		<5	5 - 10		10 - 15		15 - 20		20 - 25		25 - 30		30 - 35		35 - 40		40+				
2021	Average Benefit Received	\$	-	\$	-	\$	-	\$	3,209	\$	3,916	\$	5,431	\$	5,764	\$	11,361	\$	10,964	\$	4,846
	Average Final Average Compensation	\$	-	\$	-	\$	-	\$	5,110	\$	5,733	\$	6,188	\$	5,710	\$	12,151	\$	10,986	\$	5,986
	Number of Retirees		0		0		0		4		49		44		15		1		1		114
2020	Average Benefit Received	\$	-	\$	-	\$	-	\$	3,209	\$	3,837	\$	5,385	\$	5,764	\$	-	\$	10,964	\$	4,758
	Average Final Average Compensation	\$	-	\$	-	\$	-	\$	5,110	\$	5,663	\$	6,127	\$	5,710	\$	-	\$	10,986	\$	5,884
	Number of Retirees		0		0		0		4		47		45		15		0		1		112
2019	Average Benefit Received	\$	-	\$	-	\$	-	\$	3,209	\$	3,780	\$	5,210	\$	5,663	\$	-	\$	10,964	\$	4,644
	Average Final Average Compensation	\$	-	\$	-	\$	-	\$	5,110	\$	5,578	\$	5,941	\$	5,499	\$	-	\$	10,986	\$	5,747
	Number of Retirees		0		0		0		4		46		44		14		0		1		109
2018	Average Benefit Received	\$	-	\$	-	\$	-	\$	3,209	\$	3,697	\$	5,108	\$	5,663	\$	-	\$	10,964	\$	4,550
	Average Final Average Compensation	\$	-	\$	-	\$	-	\$	5,110	\$	5,410	\$	5,897	\$	5,499	\$	-	\$	10,986	\$	5,649
	Number of Retirees		0		0		0		4		45		39		14		0		1		103
2017	Average Benefit Received	\$	-	\$	-	\$	-	\$	3,209	\$	3,595	\$	4,849	\$	5,663	\$	-	\$	10,964	\$	4,441
	Average Final Average Compensation	\$	-	\$	-	\$	-	\$	5,110	\$	5,264	\$	5,681	\$	5,499	\$	-	\$	10,986	\$	5,511
	Number of Retirees		0		0		0		4		39		35		14		0		1		93
2016	Average Benefit Received	\$	-	\$	-	\$	-	\$	3,209	\$	3,547	\$	4,845	\$	5,663	\$	-	\$	10,964	\$	4,438
	Average Final Average Compensation	\$	-	\$	-	\$	-	\$	5,110	\$	5,261	\$	5,681	\$	5,499	\$	-	\$	10,986	\$	5,515
	Number of Retirees		0		0		0		4		37		35		14		0		1		91
2015	Average Benefit Received	\$	-	\$	-	\$	-	\$	3,034	\$	3,617	\$	4,768	\$	5,601	\$	-	\$	10,889	\$	4,459
	Average Final Average Compensation	\$	-	\$	-	\$	-	\$	4,854	\$	5,269	\$	5,672	\$	5,499	\$	-	\$	10,986	\$	5,518
	Number of Retirees		0		0		0		3		34		34		14		0		1		86
2014	Average Benefit Received	\$	-	\$	-	\$	-	\$	2,678	\$	3,495	\$	4,763	\$	5,601	\$	-	\$	10,889	\$	4,451
	Average Final Average Compensation	\$	-	\$	-	\$	-	\$	4,526	\$	5,248	\$	5,578	\$	5,499	\$	-	\$	10,986	\$	5,479
	Number of Retirees		0		0		0		2		30		31		14		0		1		78
2013	Average Benefit Received	\$	-	\$	-	\$	-	\$	2,638	\$	3,294	\$	4,753	\$	5,546	\$	-	\$	10,767	\$	4,432
	Average Final Average Compensation	\$	-	\$	-	\$	-	\$	4,526	\$	5,045	\$	5,606	\$	5,345	\$	-	\$	10,986	\$	5,405
	Number of Retirees		0		0		0		2		24		28		14		0		1		69
2012	Average Monthly Benefit	\$	-	\$	-	\$	-	\$	2,638	\$	3,152	\$	4,642	\$	5,531	\$	-	\$	-	\$	4,330
	Average Final Average Compensation	\$	-	\$	-	\$	-	\$	4,526	\$	4,887	\$	5,472	\$	5,316	\$	-	\$	-	\$	5,229
	Number of Retirees		0		0		0		2		17		25		13		0		0		57

Ten Years Ended June 30, 2021

Average Benefit Received	\$ -	\$ -	\$ -	\$ 3,092	\$ 3,653	\$ 5,022	\$ 5,648	\$ 11,361	\$ 10,925	\$ 4,562
Average Final Average Compensation	\$ -	\$ -	\$ -	\$ 4,981	\$ 5,402	\$ 5,824	\$ 5,512	\$ 12,151	\$ 10,986	\$ 5,633

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Summary of Judges

		Years of Service Credit									All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+	
2021	Average Benefit Received	\$ 819	\$ 2,347	\$ 4,218	\$ 6,093	\$ 7,565	\$ 9,476	\$ 9,779	\$11,135	\$12,781	\$ 7,619
	Average Final Average Compensation	\$ 9,598	\$10,391	\$ 9,336	\$ 9,580	\$10,063	\$10,357	\$11,001	\$12,201	\$13,964	\$ 10,148
	Number of Retirees	1	7	30	77	77	78	39	8	2	319
2020	Average Benefit Received	\$ 819	\$ 2,544	\$ 4,165	\$ 5,850	\$ 7,237	\$ 9,238	\$ 9,314	\$10,169	\$15,104	\$ 7,309
	Average Final Average Compensation	\$ 9,598	\$ 9,690	\$ 8,888	\$ 9,050	\$ 9,428	\$ 9,894	\$10,005	\$10,588	\$15,104	\$ 9,512
	Number of Retirees	1	4	29	68	63	67	33	6	1	272
2019	Average Benefit Received	\$ 778	\$ 2,528	\$ 4,078	\$ 5,777	\$ 7,084	\$ 9,114	\$ 9,008	\$10,377	\$15,104	\$ 7,222
	Average Final Average Compensation	\$ 9,598	\$ 9,834	\$ 8,639	\$ 8,935	\$ 9,235	\$ 9,714	\$ 9,661	\$10,541	\$15,104	\$ 9,333
	Number of Retirees	1	3	28	69	63	65	34	8	1	272
2018	Average Benefit Received	\$ -	\$ 2,616	\$ 4,081	\$ 5,740	\$ 6,957	\$ 8,689	\$ 8,959	\$10,378	\$13,995	\$ 7,055
	Average Final Average Compensation	\$ -	\$ 8,301	\$ 8,934	\$ 9,014	\$ 9,101	\$ 9,172	\$ 9,504	\$10,502	\$13,897	\$ 9,198
	Number of Retirees	0	3	33	72	60	61	36	9	2	276
2017	Average Benefit Received	\$ -	\$ 2,219	\$ 4,097	\$ 5,737	\$ 6,716	\$ 8,512	\$ 8,990	\$10,368	\$11,977	\$ 6,956
	Average Final Average Compensation	\$ -	\$ 7,993	\$ 8,846	\$ 8,998	\$ 8,623	\$ 8,840	\$ 9,465	\$10,492	\$11,470	\$ 8,986
	Number of Retirees	0	4	32	73	58	62	35	9	3	276
2016	Average Benefit Received	\$ -	\$ 2,219	\$ 3,916	\$ 5,704	\$ 6,587	\$ 8,230	\$ 8,970	\$ 9,391	\$10,896	\$ 6,783
	Average Final Average Compensation	\$ -	\$ 7,993	\$ 8,603	\$ 8,981	\$ 8,329	\$ 8,505	\$ 9,396	\$ 9,784	\$10,375	\$ 8,777
	Number of Retirees	0	4	33	75	60	61	36	10	3	282
2015	Average Benefit Received	\$ -	\$ 2,187	\$ 3,850	\$ 5,568	\$ 6,496	\$ 8,123	\$ 8,872	\$ 9,259	\$10,821	\$ 6,726
	Average Final Average Compensation	\$ -	\$ 7,993	\$ 8,584	\$ 8,797	\$ 8,315	\$ 8,437	\$ 9,282	\$ 9,209	\$10,375	\$ 8,679
	Number of Retirees	0	4	31	72	59	61	38	10	3	278
2014	Average Benefit Received	\$ -	\$ 2,094	\$ 3,834	\$ 5,341	\$ 6,133	\$ 7,978	\$ 8,406	\$ 8,983	\$10,821	\$ 6,542
	Average Final Average Compensation	\$ -	\$ 6,742	\$ 8,079	\$ 8,159	\$ 7,663	\$ 7,859	\$ 8,393	\$ 8,927	\$10,375	\$ 8,050
	Number of Retirees	0	3	25	59	50	53	33	9	3	235
2013	Average Benefit Received	\$ -	\$ 2,100	\$ 3,788	\$ 5,197	\$ 6,047	\$ 7,775	\$ 8,213	\$ 8,485	\$10,701	\$ 6,374
	Average Final Average Compensation	\$ -	\$ 6,522	\$ 7,774	\$ 7,955	\$ 7,289	\$ 7,681	\$ 8,129	\$ 8,195	\$10,375	\$ 7,775
	Number of Retirees	0	4	25	55	48	50	35	7	3	227
2012	Average Benefit Received	\$ -	\$ 2,100	\$ 3,745	\$ 5,113	\$ 6,039	\$ 7,642	\$ 7,754	\$ 7,832	\$10,220	\$ 6,174
	Average Final Average Compensation	\$ -	\$ 6,522	\$ 7,622	\$ 7,299	\$ 7,235	\$ 6,736	\$ 5,524	\$ 5,936	\$ 3,837	\$ 6,866
	Number of Retirees	0	4	24	57	50	51	31	6	2	225

Ten Years Ended June 30, 2021

Average Benefit Received	\$ 805	\$ 2,290	\$ 3,987	\$ 5,641	\$ 6,750	\$ 8,550	\$ 8,850	\$ 9,678	\$11,732	\$ 6,914
Average Final Average Compensation	\$ 9,598	\$ 8,355	\$ 8,575	\$ 8,741	\$ 8,643	\$ 8,846	\$ 9,099	\$ 9,728	\$10,979	\$ 8,817

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Judges (Elected before January 1, 2011)

		Years of Service Credit									All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+	
2021	Average Benefit Received	\$ 819	\$ 2,544	\$ 4,187	\$ 6,093	\$ 7,565	\$ 9,476	\$ 9,779	\$11,135	\$12,781	\$ 7,680
	Average Final Average Compensation	\$ 9,598	\$ 9,690	\$ 9,221	\$ 9,580	\$10,063	\$10,357	\$11,001	\$12,201	\$13,964	\$ 10,129
	Number of Retirees	1	4	29	77	77	78	39	8	2	315
2020	Average Benefit Received	\$ 819	\$ 2,544	\$ 4,165	\$ 5,850	\$ 7,237	\$ 9,238	\$ 9,314	\$10,169	\$15,104	\$ 7,309
	Average Final Average Compensation	\$ 9,598	\$ 9,690	\$ 8,888	\$ 9,050	\$ 9,428	\$ 9,894	\$10,005	\$10,588	\$15,104	\$ 9,512
	Number of Retirees	1	4	29	68	63	67	33	6	1	272
2019	Average Benefit Received	\$ 778	\$ 2,528	\$ 4,078	\$ 5,777	\$ 7,084	\$ 9,114	\$ 9,008	\$10,377	\$15,104	\$ 7,222
	Average Final Average Compensation	\$ 9,598	\$ 9,834	\$ 8,639	\$ 8,935	\$ 9,235	\$ 9,714	\$ 9,661	\$10,541	\$15,104	\$ 9,333
	Number of Retirees	1	3	28	69	63	65	34	8	1	272
2018	Average Benefit Received	\$ -	\$ 2,616	\$ 4,081	\$ 5,740	\$ 6,957	\$ 8,689	\$ 8,959	\$10,378	\$13,995	\$ 7,055
	Average Final Average Compensation	\$ -	\$ 8,301	\$ 8,934	\$ 9,014	\$ 9,101	\$ 9,172	\$ 9,504	\$10,502	\$13,897	\$ 9,198
	Number of Retirees	0	3	33	72	60	61	36	9	2	276
2017	Average Benefit Received	\$ -	\$ 2,219	\$ 4,097	\$ 5,737	\$ 6,716	\$ 8,512	\$ 8,990	\$10,368	\$11,977	\$ 6,956
	Average Final Average Compensation	\$ -	\$ 7,993	\$ 8,846	\$ 8,998	\$ 8,623	\$ 8,840	\$ 9,465	\$10,492	\$11,470	\$ 8,986
	Number of Retirees	0	4	32	73	58	62	35	9	3	276
2016	Average Benefit Received	\$ -	\$ 2,219	\$ 3,916	\$ 5,704	\$ 6,587	\$ 8,230	\$ 8,970	\$ 9,391	\$10,896	\$ 6,783
	Average Final Average Compensation	\$ -	\$ 7,993	\$ 8,603	\$ 8,981	\$ 8,329	\$ 8,505	\$ 9,396	\$ 9,784	\$10,375	\$ 8,777
	Number of Retirees	0	4	33	75	60	61	36	10	3	282
2015	Average Benefit Received	\$ -	\$ 2,187	\$ 3,850	\$ 5,568	\$ 6,496	\$ 8,123	\$ 8,872	\$ 9,259	\$10,821	\$ 6,726
	Average Final Average Compensation	\$ -	\$ 7,993	\$ 8,584	\$ 8,797	\$ 8,315	\$ 8,437	\$ 9,282	\$ 9,209	\$10,375	\$ 8,679
	Number of Retirees	0	4	31	72	59	61	38	10	3	278
2014	Average Benefit Received	\$ -	\$ 2,094	\$ 3,834	\$ 5,341	\$ 6,133	\$ 7,978	\$ 8,406	\$ 8,983	\$10,821	\$ 6,542
	Average Final Average Compensation	\$ -	\$ 6,742	\$ 8,079	\$ 8,159	\$ 7,663	\$ 7,859	\$ 8,393	\$ 8,927	\$10,375	\$ 8,050
	Number of Retirees	0	3	25	59	50	53	33	9	3	235
2013	Average Benefit Received	\$ -	\$ 2,100	\$ 3,788	\$ 5,197	\$ 6,047	\$ 7,775	\$ 8,213	\$ 8,485	\$10,701	\$ 6,374
	Average Final Average Compensation	\$ -	\$ 6,522	\$ 7,774	\$ 7,955	\$ 7,289	\$ 7,681	\$ 8,129	\$ 8,195	\$10,375	\$ 7,775
	Number of Retirees	0	4	25	55	48	50	35	7	3	227
2012	Average Benefit Received	\$ -	\$ 2,100	\$ 3,745	\$ 5,113	\$ 6,039	\$ 7,642	\$ 7,754	\$ 7,832	\$10,220	\$ 6,174
	Average Final Average Compensation	\$ -	\$ 6,522	\$ 7,622	\$ 7,299	\$ 7,235	\$ 6,736	\$ 5,524	\$ 5,936	\$ 3,837	\$ 6,866
	Number of Retirees	0	4	24	57	50	51	31	6	2	225

Ten Years Ended June 30, 2021

Average Benefit Received	\$ 805	\$ 2,307	\$ 3,983	\$ 5,641	\$ 6,750	\$ 8,550	\$ 8,850	\$ 9,678	\$11,732	\$ 6,921
Average Final Average Compensation	\$ 9,598	\$ 8,115	\$ 8,561	\$ 8,741	\$ 8,643	\$ 8,846	\$ 9,099	\$ 9,728	\$10,979	\$ 8,813

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Judges 2 (Elected on or after January 1, 2011)

		Years of Service Credit										All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+		
2021	Average Benefit Received	\$ -	\$ 2,084	\$ 5,110	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,841
	Average Final Average Compensation	\$ -	\$11,325	\$12,695	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,668
	Number of Retirees	0	3	1	0	0	0	0	0	0	0	4
2012-2020	Average Benefit Received	No Activity										
	Average Final Average Compensation	No Activity										
	Number of Retirees	No Activity										

Ten Years Ended June 30, 2021

Average Benefit Received	\$ -	\$ 2,084	\$ 5,110	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,841
Average Final Average Compensation	\$ -	\$11,325	\$12,695	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,668

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Legislators (Elected before January 1, 2011)

		Years of Service Credit										All Members		
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+				
2021	Average Benefit Received	\$	-	\$	-	\$ 1,181	\$ 1,784	\$ 3,160	\$ 4,591	\$ 3,277	\$ 5,183	\$	-	\$ 2,674
	Average Final Average Compensation	\$	-	\$	-	\$ 2,942	\$ 3,051	\$ 4,342	\$ 5,515	\$ 4,995	\$ 6,475	\$	-	\$ 4,030
	Number of Retirees		0		0	14	18	19	6	6	5		0	68
2020	Average Benefit Received	\$	-	\$	-	\$ 1,189	\$ 1,784	\$ 3,160	\$ 4,328	\$ 3,277	\$ 5,183	\$	-	\$ 2,721
	Average Final Average Compensation	\$	-	\$	-	\$ 2,921	\$ 3,051	\$ 4,342	\$ 4,928	\$ 4,995	\$ 6,474	\$	-	\$ 4,019
	Number of Retirees		0		0	12	18	19	7	6	5		0	67
2019	Average Benefit Received	\$	-	\$	-	\$ 1,189	\$ 1,766	\$ 3,009	\$ 4,198	\$ 3,145	\$ 6,725	\$	-	\$ 2,644
	Average Final Average Compensation	\$	-	\$	-	\$ 2,921	\$ 3,021	\$ 4,035	\$ 4,577	\$ 4,995	\$ 8,522	\$	-	\$ 3,896
	Number of Retirees		0		0	12	19	22	7	6	3		0	69
2018	Average Benefit Received	\$	-	\$	-	\$ 1,189	\$ 1,752	\$ 3,001	\$ 4,198	\$ 3,145	\$ 6,725	\$	-	\$ 2,630
	Average Final Average Compensation	\$	-	\$	-	\$ 2,921	\$ 2,978	\$ 3,996	\$ 4,577	\$ 4,995	\$ 8,522	\$	-	\$ 3,860
	Number of Retirees		0		0	12	20	23	7	6	3		0	71
2017	Average Benefit Received	\$	-	\$	-	\$ 1,189	\$ 1,735	\$ 2,959	\$ 4,198	\$ 3,145	\$ 6,725	\$	-	\$ 2,605
	Average Final Average Compensation	\$	-	\$	-	\$ 2,921	\$ 2,974	\$ 3,887	\$ 4,577	\$ 4,995	\$ 8,522	\$	-	\$ 3,813
	Number of Retirees		0		0	12	21	24	7	6	3		0	73
2016	Average Benefit Received	\$	-	\$	-	\$ 1,158	\$ 1,727	\$ 2,908	\$ 4,021	\$ 2,882	\$ 6,725	\$	-	\$ 2,565
	Average Final Average Compensation	\$	-	\$	-	\$ 2,894	\$ 2,974	\$ 3,774	\$ 4,334	\$ 4,052	\$ 8,522	\$	-	\$ 3,686
	Number of Retirees		0		0	13	21	26	8	9	3		0	80
2015	Average Benefit Received	\$	-	\$	-	\$ 1,140	\$ 1,622	\$ 2,849	\$ 3,701	\$ 2,733	\$ 6,675	\$	-	\$ 2,463
	Average Final Average Compensation	\$	-	\$	-	\$ 2,894	\$ 2,846	\$ 3,758	\$ 3,856	\$ 3,449	\$ 8,522	\$	-	\$ 3,522
	Number of Retirees		0		0	13	23	25	10	7	3		0	81
2014	Average Benefit Received	\$	-	\$	-	\$ 1,139	\$ 1,618	\$ 2,849	\$ 3,507	\$ 2,733	\$ 6,675	\$	-	\$ 2,421
	Average Final Average Compensation	\$	-	\$	-	\$ 2,894	\$ 2,691	\$ 3,758	\$ 3,596	\$ 3,449	\$ 8,522	\$	-	\$ 3,421
	Number of Retirees		0		0	13	26	25	11	7	3		0	85
2013	Average Benefit Received	\$	-	\$	-	\$ 1,119	\$ 1,598	\$ 2,764	\$ 3,491	\$ 2,634	\$ 5,702	\$	-	\$ 2,387
	Average Final Average Compensation	\$	-	\$	-	\$ 2,899	\$ 2,996	\$ 4,194	\$ 4,278	\$ 3,295	\$ 7,224	\$	-	\$ 3,712
	Number of Retirees		0		0	14	26	26	12	8	4		0	90
2012	Average Benefit Received	\$	-	\$	-	\$ 1,140	\$ 1,598	\$ 2,764	\$ 3,473	\$ 2,634	\$ 3,623	\$	-	\$ 2,292
	Average Final Average Compensation	\$	-	\$	-	\$ 2,947	\$ 2,996	\$ 4,194	\$ 4,128	\$ 3,295	\$ 5,248	\$	-	\$ 3,588
	Number of Retirees		0		0	13	26	26	13	8	2		0	88

Ten Years Ended June 30, 2021

Average Benefit Received	\$ -	\$ -	\$ 1,162	\$ 1,688	\$ 2,928	\$ 3,873	\$ 2,932	\$ 5,960	\$ -	\$ 2,527
Average Final Average Compensation	\$ -	\$ -	\$ 2,915	\$ 2,949	\$ 4,013	\$ 4,335	\$ 4,164	\$ 7,575	\$ -	\$ 3,738

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Special Legislative Employees (Hired before January 1, 2011)

		Years of Service Credit										All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+		
2021	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$13,969	\$ -	\$15,909	\$ -	\$ -	\$ -	\$ 14,939
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$21,293	\$ -	\$18,743	\$ -	\$ -	\$ -	\$ 20,018
	Number of Retirees	0	0	0	0	1	0	1	0	0	0	2
2020	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$14,465	\$ -	\$15,909	\$ -	\$ -	\$ -	\$ 15,187
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$21,293	\$ -	\$18,743	\$ -	\$ -	\$ -	\$ 20,018
	Number of Retirees	0	0	0	0	1	0	1	0	0	0	2
2019	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	15,909	\$ -	\$ -	\$ -	\$ 15,909
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	18,743	\$ -	\$ -	\$ -	\$ 18,743
	Number of Retirees	0	0	0	0	0	0	1	0	0	0	1
2018	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$15,909	\$ -	\$ -	\$ -	\$ 15,909
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$18,743	\$ -	\$ -	\$ -	\$ 18,743
	Number of Retirees	0	0	0	0	0	0	1	0	0	0	1
2017	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$15,909	\$ -	\$ -	\$ -	\$ 15,909
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$18,743	\$ -	\$ -	\$ -	\$ 18,743
	Number of Retirees	0	0	0	0	0	0	1	0	0	0	1
2016	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$15,909	\$ -	\$ -	\$ -	\$ 15,909
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$18,743	\$ -	\$ -	\$ -	\$ 18,743
	Number of Retirees	0	0	0	0	0	0	1	0	0	0	1
2015	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$15,834	\$ -	\$ -	\$ -	\$ 15,834
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$18,743	\$ -	\$ -	\$ -	\$ 18,743
	Number of Retirees	0	0	0	0	0	0	1	0	0	0	1
2012-2014	Average Benefit Received	No Activity										
	Average Final Average Compensation	No Activity										
	Number of Retirees	No Activity										

Ten Years Ended June 30, 2021

Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$14,217	\$ -	\$15,898	\$ -	\$ -	\$ -	\$ 15,525
Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$21,293	\$ -	\$18,743	\$ -	\$ -	\$ -	\$ 19,310

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Bridge Police Employees (Hired before July 1, 2006)

		Years of Service Credit										All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+		
2021	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,544	\$ 4,003	\$ -	\$ -	\$ 4,774
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,206	\$ 6,627	\$ -	\$ -	\$ 6,917
	Number of Retirees	0	0	0	0	0	0	1	1	0	0	2
2020	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,544	\$ 4,003	\$ -	\$ -	\$ 4,774
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,206	\$ 6,627	\$ -	\$ -	\$ 6,917
	Number of Retirees	0	0	0	0	0	0	1	1	0	0	2
2019	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,544	\$ 4,003	\$ -	\$ -	\$ 4,774
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,206	\$ 6,627	\$ -	\$ -	\$ 6,917
	Number of Retirees	0	0	0	0	0	0	1	1	0	0	2
2018	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,544	\$ 4,003	\$ -	\$ -	\$ 4,774
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,206	\$ 6,627	\$ -	\$ -	\$ 6,917
	Number of Retirees	0	0	0	0	0	0	1	1	0	0	2
2017	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,003	\$ -	\$ -	\$ 4,003
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,627	\$ -	\$ -	\$ 6,627
	Number of Retirees	0	0	0	0	0	0	0	1	0	0	1
2016	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,003	\$ -	\$ -	\$ 4,003
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,627	\$ -	\$ -	\$ 6,627
	Number of Retirees	0	0	0	0	0	0	0	1	0	0	1
2015	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,124	\$ -	\$ 3,944	\$ -	\$ -	\$ 3,534
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,505	\$ -	\$ 6,627	\$ -	\$ -	\$ 6,066
	Number of Retirees	0	0	0	0	0	1	0	1	0	0	2
2014	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,124	\$ -	\$ 3,944	\$ -	\$ -	\$ 3,534
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,505	\$ -	\$ 6,627	\$ -	\$ -	\$ 6,066
	Number of Retirees	0	0	0	0	0	1	0	1	0	0	2
2013	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,124	\$ -	\$ 3,886	\$ -	\$ -	\$ 3,505
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,505	\$ -	\$ 6,627	\$ -	\$ -	\$ 6,066
	Number of Retirees	0	0	0	0	0	1	0	1	0	0	2
2012	Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,886	\$ -	\$ -	\$ 3,886
	Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,627	\$ -	\$ -	\$ 6,627
	Number of Retirees	0	0	0	0	0	0	0	1	0	0	1

Ten Years Ended June 30, 2021

Average Benefit Received	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,124	\$ 5,544	\$ 3,968	\$ -	\$ -	\$ 4,190
Average Final Average Compensation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,505	\$ 7,206	\$ 6,627	\$ -	\$ -	\$ 6,565

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Hazardous Duty (Hired on or after January 1, 2011)

		Years of Service Credit										All Members				
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+						
2021	Average Benefit Received	\$	-	\$	-	\$ 1,363	\$ 1,941	\$ 2,465	\$ 4,071	\$ 4,846	\$	-	\$	-	\$ 2,594	
	Average Final Average Compensation	\$	-	\$	-	\$ 3,612	\$ 3,944	\$ 4,499	\$ 5,298	\$ 5,003	\$	-	\$	-	\$ 4,447	
	Number of Retirees		0		0	22	41	87	38	4		0		0	192	
2020	Average Benefit Received	\$	-	\$	-	\$ 1,299	\$ 1,897	\$ 2,423	\$ 4,152	\$ 4,846	\$	-	\$	-	\$ 2,567	
	Average Final Average Compensation	\$	-	\$	-	\$ 3,667	\$ 3,892	\$ 4,469	\$ 5,410	\$ 5,003	\$	-	\$	-	\$ 4,445	
	Number of Retirees		0		0	18	38	80	32	4		0		0	172	
2019	Average Benefit Received	\$	-	\$	-	\$ 1,321	\$ 1,870	\$ 2,428	\$ 3,918	\$ 4,963	\$	-	\$	-	\$ 2,474	
	Average Final Average Compensation	\$	-	\$	-	\$ 3,655	\$ 3,951	\$ 4,495	\$ 5,232	\$ 5,089	\$	-	\$	-	\$ 4,422	
	Number of Retirees		0		0	17	32	78	26	2		0		0	155	
2018	Average Benefit Received	\$	-	\$	-	\$ 1,190	\$ 1,754	\$ 2,444	\$ 3,999	\$ 4,963	\$	-	\$	-	\$ 2,444	
	Average Final Average Compensation	\$	-	\$	-	\$ 3,391	\$ 3,852	\$ 4,542	\$ 5,464	\$ 5,089	\$	-	\$	-	\$ 4,426	
	Number of Retirees		0		0	14	27	68	20	2		0		0	131	
2017	Average Benefit Received	\$	-	\$	-	\$ 1,211	\$ 1,779	\$ 2,422	\$ 3,960	\$ 4,963	\$	-	\$	-	\$ 2,352	
	Average Final Average Compensation	\$	-	\$	-	\$ 3,429	\$ 3,914	\$ 4,558	\$ 5,416	\$ 5,089	\$	-	\$	-	\$ 4,394	
	Number of Retirees		0		0	12	24	64	11	2		0		0	113	
2016	Average Benefit Received	\$	-	\$	-	\$ 1,243	\$ 1,927	\$ 2,427	\$ 3,801	\$ 4,963	\$	-	\$	-	\$ 2,352	
	Average Final Average Compensation	\$	-	\$	-	\$ 3,462	\$ 4,067	\$ 4,567	\$ 5,231	\$ 5,089	\$	-	\$	-	\$ 4,400	
	Number of Retirees		0		0	12	18	55	8	2		0		0	95	
2015	Average Benefit Received	\$	-	\$	-	\$ 1,268	\$ 1,766	\$ 2,338	\$ 3,824	\$ 4,963	\$	-	\$	-	\$ 2,206	
	Average Final Average Compensation	\$	-	\$	-	\$ 3,478	\$ 3,914	\$ 4,450	\$ 5,320	\$ 5,089	\$	-	\$	-	\$ 4,257	
	Number of Retirees		0		0	11	17	44	4	2		0		0	78	
2014	Average Benefit Received	\$	-	\$	-	\$ 1,263	\$ 1,699	\$ 2,382	\$ 3,219	\$ 4,963	\$	-	\$	-	\$ 2,180	
	Average Final Average Compensation	\$	-	\$	-	\$ 3,430	\$ 3,895	\$ 4,491	\$ 4,292	\$ 5,089	\$	-	\$	-	\$ 4,228	
	Number of Retirees		0		0	10	14	41	2	2		0		0	69	
2013	Average Benefit Received	\$	-	\$	-	\$ 1,267	\$ 1,728	\$ 2,353	\$ 4,016	\$ 5,650	\$	-	\$	-	\$ 2,152	
	Average Final Average Compensation	\$	-	\$	-	\$ 3,539	\$ 3,941	\$ 4,516	\$ 4,805	\$ 5,650	\$	-	\$	-	\$ 4,281	
	Number of Retirees		0		0	8	13	36	1	1		0		0	59	
2012	Average Benefit Received	\$	-	\$	-	\$ 1,137	\$ 1,791	\$ 2,375	\$ 4,016	\$	-	\$	-	\$	-	\$ 2,155
	Average Final Average Compensation	\$	-	\$	-	\$ 3,552	\$ 4,252	\$ 4,410	\$ 4,802	\$	-	\$	-	\$	-	\$ 4,269
	Number of Retirees		0		0	3	4	12	1	0		0		0	20	

Ten Years Ended June 30, 2021

Average Benefit Received	\$ -	\$ -	\$ 1,276	\$ 1,841	\$ 2,418	\$ 4,008	\$ 4,951	\$ -	\$ -	\$ 2,422
Average Final Average Compensation	\$ -	\$ -	\$ 3,538	\$ 3,932	\$ 4,507	\$ 5,319	\$ 5,083	\$ -	\$ -	\$ 4,391

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

New Orleans Harbor Police

		Years of Service Credit									All Members
		<5**	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+	
2021	Average Benefit Received*	\$ 3,326	\$ -		\$ 1,673	\$ 2,532	\$ 4,292	\$ -	\$ 3,227	\$ -	\$ 2,901
	Average Final Average Compensation	\$ 3,663	\$ -	\$ 6,550	\$ 2,985	\$ 3,344	\$ 4,799	\$ -	\$ 4,414	\$ -	\$ 3,779
	Number of Retirees	1	0	1	2	18	6	0	1	0	29
2020	Average Benefit Received*	\$ 3,326	\$ -	\$ -	\$ 1,586	\$ 2,456	\$ 3,750	\$ -	\$ 3,227	\$ -	\$ 2,708
	Average Final Average Compensation	\$ 3,663	\$ -	\$ 6,550	\$ 2,682	\$ 3,163	\$ 4,158	\$ -	\$ 4,414	\$ -	\$ 3,508
	Number of Retirees	1	0	1	3	16	6	0	1	0	28
2019	Average Benefit Received*	3,326	\$ -	\$ -	1,586	2,394	3,750	\$ -	3,227	\$ -	\$ 2,693
	Average Final Average Compensation	3,663	\$ -	6,550	2,682	2,931	4,158	\$ -	4,414	\$ -	\$ 3,410
	Number of Retirees	1	0	1	3	14	6	0	1	0	26
2018	Average Benefit Received*	\$ 2,311	\$ -	\$ -	\$ 2,200	\$ 2,144	\$ 4,427	\$ -	\$ 3,227	\$ -	\$ 2,590
	Average Final Average Compensation	\$ 2,651	\$ -	\$ 6,550	\$ 4,226	\$ 3,037	\$ 5,150	\$ -	\$ 4,414	\$ -	\$ 3,233
	Number of Retirees	19	0	1	1	1	3	0	1	0	26
2017	Average Benefit Received*	\$ 2,386	\$ -	\$ -	\$ 2,200	\$ 2,144	\$ 4,827	\$ -	\$ 3,227	\$ -	\$ 2,662
	Average Final Average Compensation	\$ 2,654	\$ -	\$ 6,550	\$ 4,226	\$ 3,037	\$ 5,130	\$ -	\$ 4,414	\$ -	\$ 3,173
	Number of Retirees	22	0	1	1	1	3	0	1	0	29
2016	Average Benefit Received	\$ 2,386	\$ -	\$ -	\$ 2,200	\$ 2,712	\$ 3,618	\$ -	\$ 3,227	\$ -	\$ 2,521
	Average Final Average Compensation	\$ 2,654	\$ -	\$ 6,550	\$ 4,226	\$ 3,893	\$ 4,490	\$ -	\$ 4,414	\$ -	\$ 3,115
	Number of Retirees	22	0	1	1	2	2	0	1	0	29
2012-2015	Average Benefit Received	No Activity									
	Average Final Average Compensation	No Activity									
	Number of Retirees	No Activity									

Ten Years Ended June 30, 2021

Average Benefit Received	\$ 2,407	\$ -	\$ -	\$ 1,769	\$ 2,463	\$ 4,067	\$ -	\$ 3,227	\$ -	\$ 2,680
Average Final Average Compensation	\$ 2,699	\$ -	\$ 6,550	\$ 3,158	\$ 3,186	\$ 4,558	\$ -	\$ 4,414	\$ -	\$ 3,370

* The retired member appearing in the 10-15 years of service credit column is working after DROP and is not receiving a benefit.

** Years of service credit for retirees converted into LASERS was not available from FY 2016 to 2018, therefore they appear in the <5 years of service credit column.

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Disability

		Years of Service Credit										All Members
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+		
2021	Average Benefit Received	\$ 1,325	\$ 1,677	\$ 818	\$ 1,231	\$ 1,593	\$ 1,927	\$ 2,268	\$ -	\$ -	\$ 1,235	
	Average Final Average Compensation	\$ 3,335	\$ 3,328	\$ 2,391	\$ 2,649	\$ 2,679	\$ 2,728	\$ 2,780	\$ -	\$ -	\$ 2,582	
	Number of Retirees	7	15	682	675	456	159	6	0	0	2,000	
2020	Average Benefit Received	\$ 1,248	\$ 1,604	\$ 814	\$ 1,214	\$ 1,578	\$ 1,918	\$ 2,268	\$ -	\$ -	\$ 1,223	
	Average Final Average Compensation	\$ 3,050	\$ 3,309	\$ 2,373	\$ 2,617	\$ 2,661	\$ 2,708	\$ 2,780	\$ -	\$ -	\$ 2,558	
	Number of Retirees	9	14	716	697	482	167	6	0	0	2,091	
2019	Average Benefit Received	\$ 1,140	\$ 1,516	\$ 813	\$ 1,203	\$ 1,552	\$ 1,905	\$ 2,278	\$ -	\$ -	\$ 1,215	
	Average Final Average Compensation	\$ 3,027	\$ 3,103	\$ 2,345	\$ 2,587	\$ 2,611	\$ 2,667	\$ 2,723	\$ -	\$ -	\$ 2,523	
	Number of Retirees	9	14	738	721	507	179	7	0	0	2,175	
2018	Average Benefit Received	\$ 807	\$ 1,422	\$ 803	\$ 1,181	\$ 1,549	\$ 1,893	\$ 2,278	\$ -	\$ -	\$ 1,201	
	Average Final Average Compensation	\$ 2,667	\$ 3,263	\$ 2,317	\$ 2,552	\$ 2,600	\$ 2,642	\$ 2,723	\$ -	\$ -	\$ 2,496	
	Number of Retirees	11	12	758	740	520	186	7	0	0	2,234	
2017	Average Benefit Received	\$ 871	\$ 1,189	\$ 791	\$ 1,170	\$ 1,530	\$ 1,897	\$ 2,135	\$ -	\$ -	\$ 1,187	
	Average Final Average Compensation	\$ 2,559	\$ 2,985	\$ 2,294	\$ 2,531	\$ 2,582	\$ 2,636	\$ 2,567	\$ -	\$ -	\$ 2,473	
	Number of Retirees	12	12	795	762	539	197	8	0	0	2,325	
2016	Average Benefit Received	\$ 833	\$ 1,189	\$ 794	\$ 1,161	\$ 1,522	\$ 1,888	\$ 1,984	\$ -	\$ -	\$ 1,182	
	Average Final Average Compensation	\$ 2,872	\$ 2,985	\$ 2,286	\$ 2,494	\$ 2,561	\$ 2,610	\$ 3,084	\$ -	\$ -	\$ 2,455	
	Number of Retirees	12	12	825	783	557	202	10	0	0	2,401	
2015	Average Benefit Received	\$ 743	\$ 1,079	\$ 768	\$ 1,125	\$ 1,489	\$ 1,848	\$ 1,918	\$ -	\$ -	\$ 1,154	
	Average Final Average Compensation	\$ 3,055	\$ 2,638	\$ 2,236	\$ 2,446	\$ 2,546	\$ 2,581	\$ 2,940	\$ -	\$ -	\$ 2,415	
	Number of Retirees	9	15	844	782	580	216	11	0	0	2,457	
2014	Average Benefit Received	\$ 534	\$ 981	\$ 746	\$ 1,118	\$ 1,469	\$ 1,832	\$ 1,980	\$ -	\$ -	\$ 1,143	
	Average Final Average Compensation	\$ 3,080	\$ 2,423	\$ 2,173	\$ 2,422	\$ 2,516	\$ 2,583	\$ 2,926	\$ -	\$ -	\$ 2,379	
	Number of Retirees	7	16	849	789	605	228	12	0	0	2,506	
2013	Average Benefit Received	\$ 458	\$ 922	\$ 723	\$ 1,070	\$ 1,436	\$ 1,778	\$ 1,958	\$ -	\$ -	\$ 1,112	
	Average Final Average Compensation	\$ 3,151	\$ 2,326	\$ 2,349	\$ 2,439	\$ 2,698	\$ 2,897	\$ 2,942	\$ -	\$ -	\$ 2,519	
	Number of Retirees	6	16	858	790	636	235	13	0	0	2,554	
2012	Average Benefit Received	\$ 327	\$ 1,161	\$ 692	\$ 1,040	\$ 1,396	\$ 1,760	\$ 1,958	\$ -	\$ -	\$ 1,085	
	Average Final Average Compensation	\$ 3,410	\$ 2,365	\$ 2,157	\$ 2,244	\$ 2,434	\$ 2,835	\$ 2,942	\$ -	\$ -	\$ 2,325	
	Number of Retirees	5	17	848	786	635	240	13	0	0	2,544	

Ten Years Ended June 30, 2021

Average Benefit Received	\$ 861	\$ 1,264	\$ 774	\$ 1,149	\$ 1,505	\$ 1,858	\$ 2,062	\$ -	\$ -	\$ 1,170
Average Final Average Compensation	\$ 2,960	\$ 2,841	\$ 2,288	\$ 2,493	\$ 2,584	\$ 2,692	\$ 2,869	\$ -	\$ -	\$ 2,468

Average Monthly Benefit Amounts (continued)

Ten Years Ended June 30, 2021

Survivors

		Years of Service Credit									
		<5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40+	All Members
2021	Average Benefit Received	\$ 1,279	\$ 1,463	\$ 865	\$ 1,139	\$ 1,412	\$ 1,688	\$ 2,064	\$ 2,634	\$ 3,360	\$ 1,525
	Average Final Average Compensation	\$ 2,961	\$ 3,337	\$ 2,577	\$ 2,795	\$ 3,123	\$ 3,118	\$ 3,051	\$ 3,627	\$ 4,670	\$ 2,997
	Number of Retirees	26	71	1,149	945	1,190	1,168	1,187	277	73	6,086
2020	Average Benefit Received	\$ 1,259	\$ 1,582	\$ 850	\$ 1,105	\$ 1,385	\$ 1,649	\$ 1,965	\$ 2,529	\$ 3,104	\$ 1,473
	Average Final Average Compensation	\$ 2,940	\$ 3,277	\$ 2,497	\$ 2,693	\$ 3,014	\$ 3,015	\$ 2,945	\$ 3,520	\$ 4,387	\$ 2,893
	Number of Retirees	26	73	1,161	938	1,153	1,138	1,145	271	74	5,979
2019	Average Benefit Received	\$ 1,303	\$ 1,628	\$ 842	\$ 1,103	\$ 1,367	\$ 1,601	\$ 1,896	\$ 2,473	\$ 2,958	\$ 1,439
	Average Final Average Compensation	\$ 3,000	\$ 3,176	\$ 2,438	\$ 2,646	\$ 2,931	\$ 2,921	\$ 2,837	\$ 3,394	\$ 4,192	\$ 2,810
	Number of Retirees	26	70	1,169	946	1,161	1,135	1,133	256	81	5,977
2018	Average Benefit Received	\$ 1,178	\$ 1,653	\$ 839	\$ 1,093	\$ 1,356	\$ 1,573	\$ 1,855	\$ 2,402	\$ 2,825	\$ 1,413
	Average Final Average Compensation	\$ 2,682	\$ 3,151	\$ 2,391	\$ 2,603	\$ 2,874	\$ 2,834	\$ 2,771	\$ 3,292	\$ 4,034	\$ 2,743
	Number of Retirees	32	72	1,174	950	1,137	1,122	1,125	256	72	5,940
2017	Average Benefit Received	\$ 1,164	\$ 1,791	\$ 830	\$ 1,064	\$ 1,301	\$ 1,534	\$ 1,822	\$ 2,320	\$ 2,800	\$ 1,376
	Average Final Average Compensation	\$ 2,665	\$ 3,254	\$ 2,307	\$ 2,503	\$ 2,740	\$ 2,738	\$ 2,695	\$ 3,186	\$ 3,945	\$ 2,645
	Number of Retirees	32	71	1,181	945	1,107	1,121	1,096	250	69	5,872
2016	Average Benefit Received	\$ 1,164	\$ 1,636	\$ 822	\$ 1,045	\$ 1,268	\$ 1,492	\$ 1,773	\$ 2,229	\$ 2,763	\$ 1,341
	Average Final Average Compensation	\$ 2,665	\$ 2,993	\$ 2,231	\$ 2,423	\$ 2,637	\$ 2,648	\$ 2,615	\$ 3,044	\$ 3,808	\$ 2,555
	Number of Retirees	32	71	1,174	943	1,093	1,087	1,074	260	68	5,802
2015	Average Benefit Received	\$ 1,254	\$ 1,584	\$ 803	\$ 1,004	\$ 1,217	\$ 1,433	\$ 1,685	\$ 2,142	\$ 2,619	\$ 1,285
	Average Final Average Compensation	\$ 2,961	\$ 2,743	\$ 2,171	\$ 2,326	\$ 2,568	\$ 2,568	\$ 2,510	\$ 2,974	\$ 3,616	\$ 2,469
	Number of Retirees	22	66	1,191	973	1,100	1,079	1,082	250	71	5,834
2014	Average Benefit Received	\$ 1,286	\$ 1,499	\$ 804	\$ 979	\$ 1,206	\$ 1,398	\$ 1,638	\$ 2,012	\$ 2,545	\$ 1,252
	Average Final Average Compensation	\$ 3,017	\$ 2,639	\$ 2,118	\$ 2,242	\$ 2,504	\$ 2,484	\$ 2,421	\$ 2,775	\$ 3,502	\$ 2,388
	Number of Retirees	22	75	1,194	995	1,058	1,051	1,046	246	72	5,759
2013	Average Benefit Received	\$ 1,235	\$ 1,445	\$ 769	\$ 922	\$ 1,137	\$ 1,322	\$ 1,545	\$ 1,896	\$ 2,416	\$ 1,177
	Average Final Average Compensation	\$ 2,918	\$ 2,591	\$ 2,377	\$ 2,545	\$ 2,808	\$ 2,940	\$ 2,924	\$ 3,050	\$ 3,499	\$ 2,731
	Number of Retirees	24	76	1,202	1,007	1,070	1,035	1,017	229	66	5,726
2012	Average Benefit Received	\$ 1,084	\$ 1,423	\$ 777	\$ 912	\$ 1,110	\$ 1,288	\$ 1,521	\$ 1,880	\$ 2,462	\$ 1,159
	Average Final Average Compensation	\$ 2,970	\$ 2,418	\$ 2,279	\$ 2,444	\$ 2,652	\$ 2,855	\$ 2,884	\$ 2,954	\$ 3,333	\$ 2,631
	Number of Retirees	28	76	1,182	1,030	1,065	1,001	983	236	64	5,665

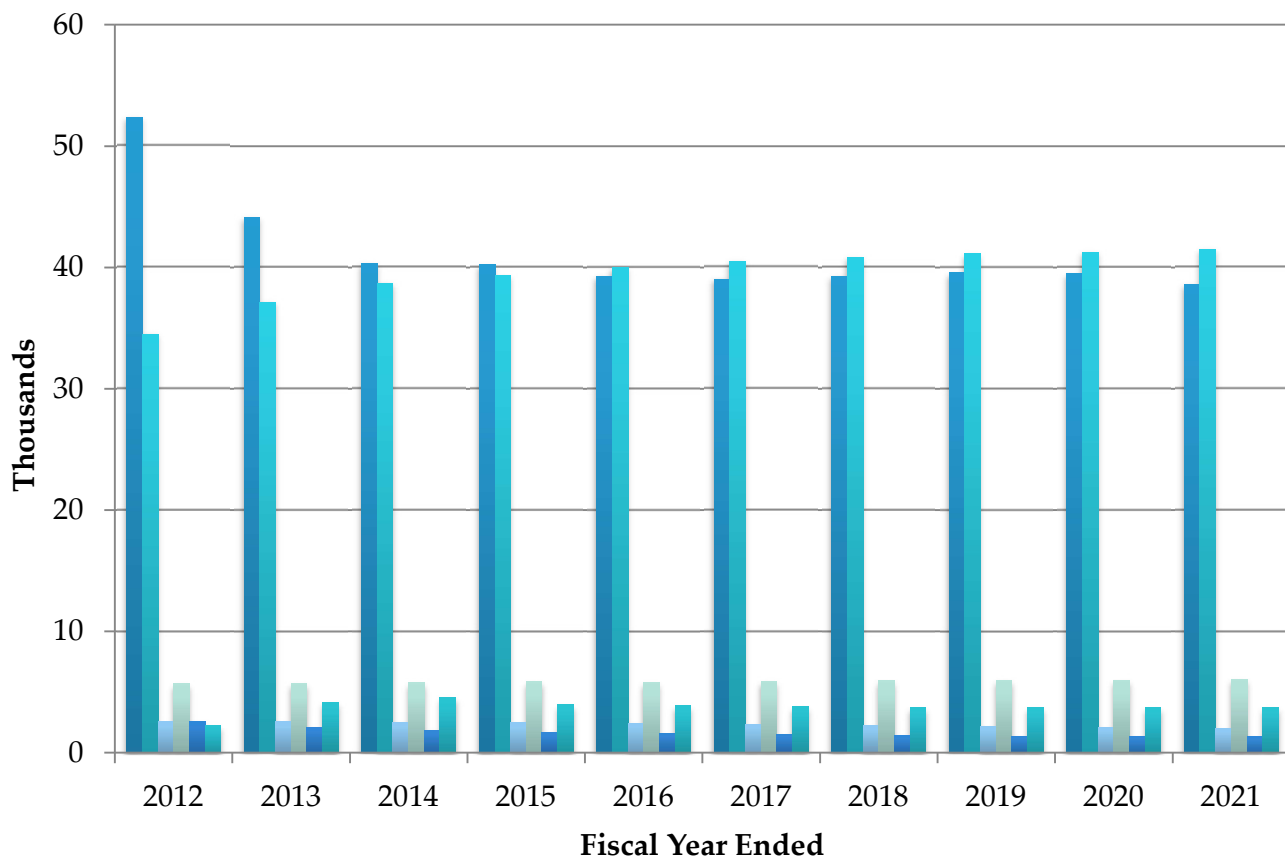
Ten Years Ended June 30, 2021

Average Benefit Received	\$ 1,215	\$ 1,568	\$ 820	\$ 1,034	\$ 1,279	\$ 1,504	\$ 1,785	\$ 2,264	\$ 2,796	\$ 1,347
Average Final Average Compensation	\$ 2,861	\$ 2,952	\$ 2,337	\$ 2,519	\$ 2,792	\$ 2,816	\$ 2,769	\$ 3,192	\$ 3,915	\$ 2,689

LASERS Membership

Fiscal Year	Active Members	Regular Retirees	Disability Retirees	Survivors	DROP	Terminated Vested	Terminated Nonvested**	Total Members
2012	52,352	34,513	2,544	5,665	2,577	2,222	50,590	150,463
2013	44,111	37,145	2,554	5,726	2,092	4,162	52,385	148,175
2014	40,321	38,675	2,506	5,759	1,838	4,558	52,042	145,699
2015	40,194	39,352	2,457	5,834	1,682	3,953	52,193	145,665
2016	39,284	39,998	2,401	5,802	1,609	3,865	52,837	145,796
2017	39,055	40,482	2,325	5,872	1,520	3,794	53,573	146,621
2018	39,293	40,832	2,234	5,940	1,398	3,720	54,370	147,787
2019	39,533	41,117	2,175	5,977	1,354	3,744	55,280	149,180
2020	39,487	41,271	2,091	5,979	1,367	3,691	55,676	149,562
2021	38,572	41,449	2,000	6,086	1,311	3,724	57,464	150,606

LASERS Changes In Membership**

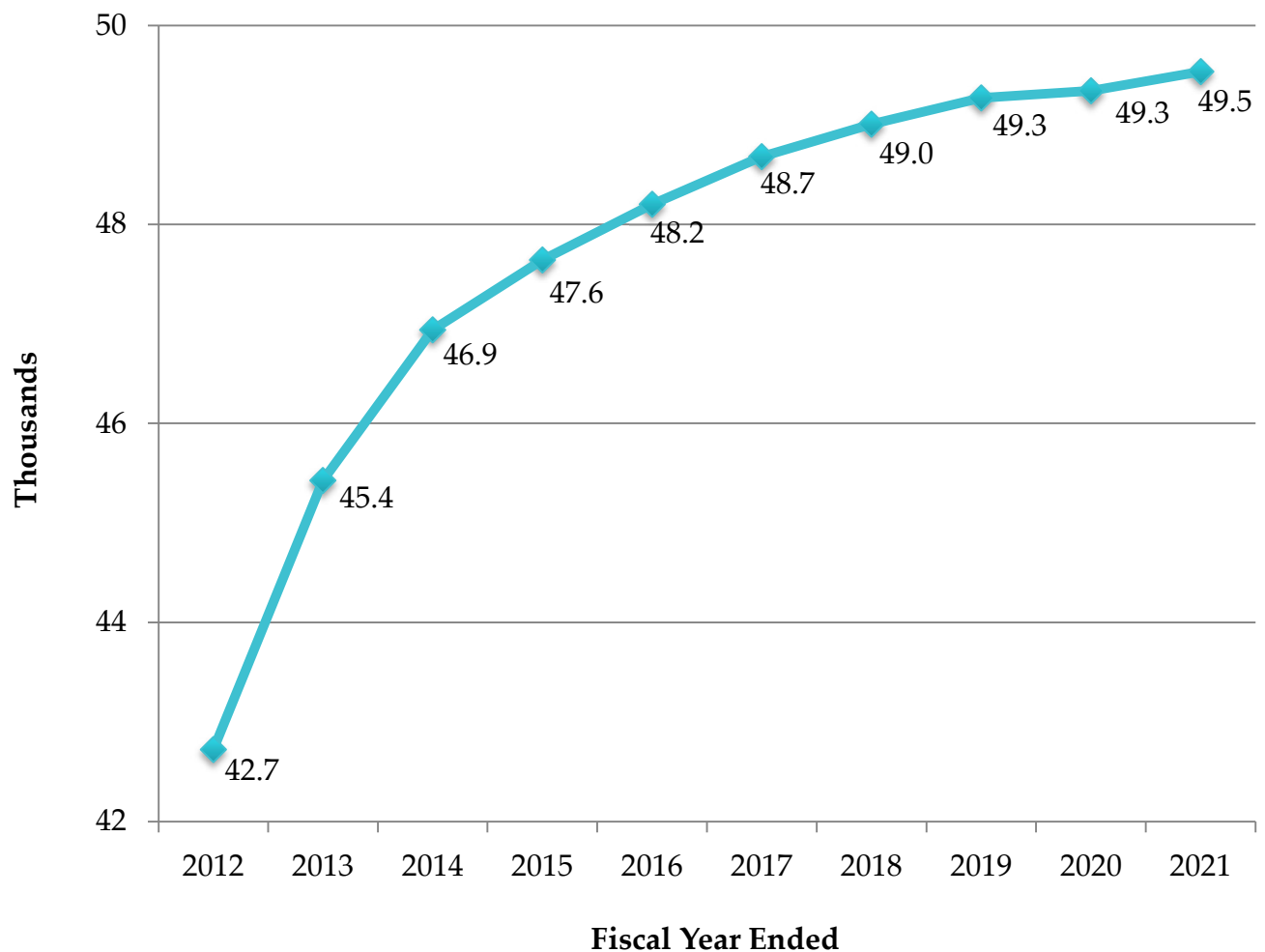


■ Active Members ■ Regular Retirees ■ Disability Retirees ■ Survivors ■ DROP ■ Terminated Vested

** Graph does not include Terminated Nonvested

Number of Benefit Recipients

Fiscal Year Ended	Recipients*	Net Change
2012	42,722	3.8%
2013	45,425	6.3%
2014	46,940	3.3%
2015	47,643	1.5%
2016	48,201	1.2%
2017	48,679	1.0%
2018	49,006	0.7%
2019	49,269	0.5%
2020	49,341	0.1%
2021	49,535	0.4%



*Recipients include Regular, Disability and Survivor retirees.

Retired Members by Recipient Type and Plan Ten Years Ended June 30, 2021

Fiscal Year

Retirement Plan	Benefit Recipient Type	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Regular State Employees (Hired before July 1, 2006)	Regular Retiree	32,289	34,692	36,004	36,442	36,835	37,107	37,214	37,276	37,191	37,041
	Survivor	5,325	5,370	5,391	5,443	5,373	5,394	5,422	5,442	5,407	5,469
	Disability Retiree	2,425	2,425	2,363	2,302	2,237	2,163	2,065	1,991	1,895	1,795
	DROP Accrual	2,469	1,989	1,714	1,535	1,473	1,367	1,246	1,184	1,211	1,152
Regular State Employees-Total		42,508	44,476	45,472	45,722	45,918	46,031	45,947	45,893	45,704	45,457
Regular State Employees 2 (Hired on or after July 1, 2006)	Regular Retiree	13	82	164	236	329	426	525	627	718	838
	Survivor	-	3	7	7	14	20	22	27	34	41
	Disability Retiree	-	-	1	3	3	3	8	13	23	26
	DROP Accrual	8	16	24	31	32	38	42	52	51	50
Regular State Employees 2-Total		21	101	196	277	378	487	597	719	826	955
Regular State Employees 3 (Hired on or after January 1, 2011)	Regular Retiree	-	1	1	3	13	29	53	94	123	179
	Survivor	-	-	-	-	-	1	3	5	7	8
	Disability Retiree	-	-	-	-	-	-	-	-	-	1
	DROP Accrual	-	-	-	1	1	9	11	15	14	15
Regular State Employees 3-Total		-	1	1	4	14	39	67	114	144	203
Regular State Employees 4 (Hired on or after July 1, 2015)	Regular Retiree	-	-	-	-	-	-	1	1	2	8
Regular State Employees 4-Total		-	-	-	-	-	-	1	1	2	8
Corrections Employees Primary (Hired before January 1, 2002)	Regular Retiree	1,287	1,294	1,321	1,326	1,332	1,335	1,322	1,320	1,317	1,297
	Survivor	146	154	158	169	180	196	211	215	222	243
	Disability Retiree	62	69	72	75	76	74	69	67	65	63
	DROP Accrual	46	32	29	20	13	8	12	13	12	11
Corrections Employees Primary-Total		1,541	1,549	1,580	1,590	1,601	1,613	1,614	1,615	1,616	1,614
Corrections Employees Secondary (Hired on or after January 1, 2002)	Regular Retiree	359	451	529	621	713	802	903	958	1,057	1,147
	Survivor	21	29	30	37	41	48	60	73	84	98
	Disability Retiree	31	34	44	48	53	52	57	65	71	76
	DROP Accrual	32	32	38	54	57	65	57	58	47	44
Corrections Employees Secondary-Total		443	546	641	760	864	967	1,077	1,154	1,259	1,365

Retired Members by Recipient Type and Plan (continued)

Ten Years Ended June 30, 2021

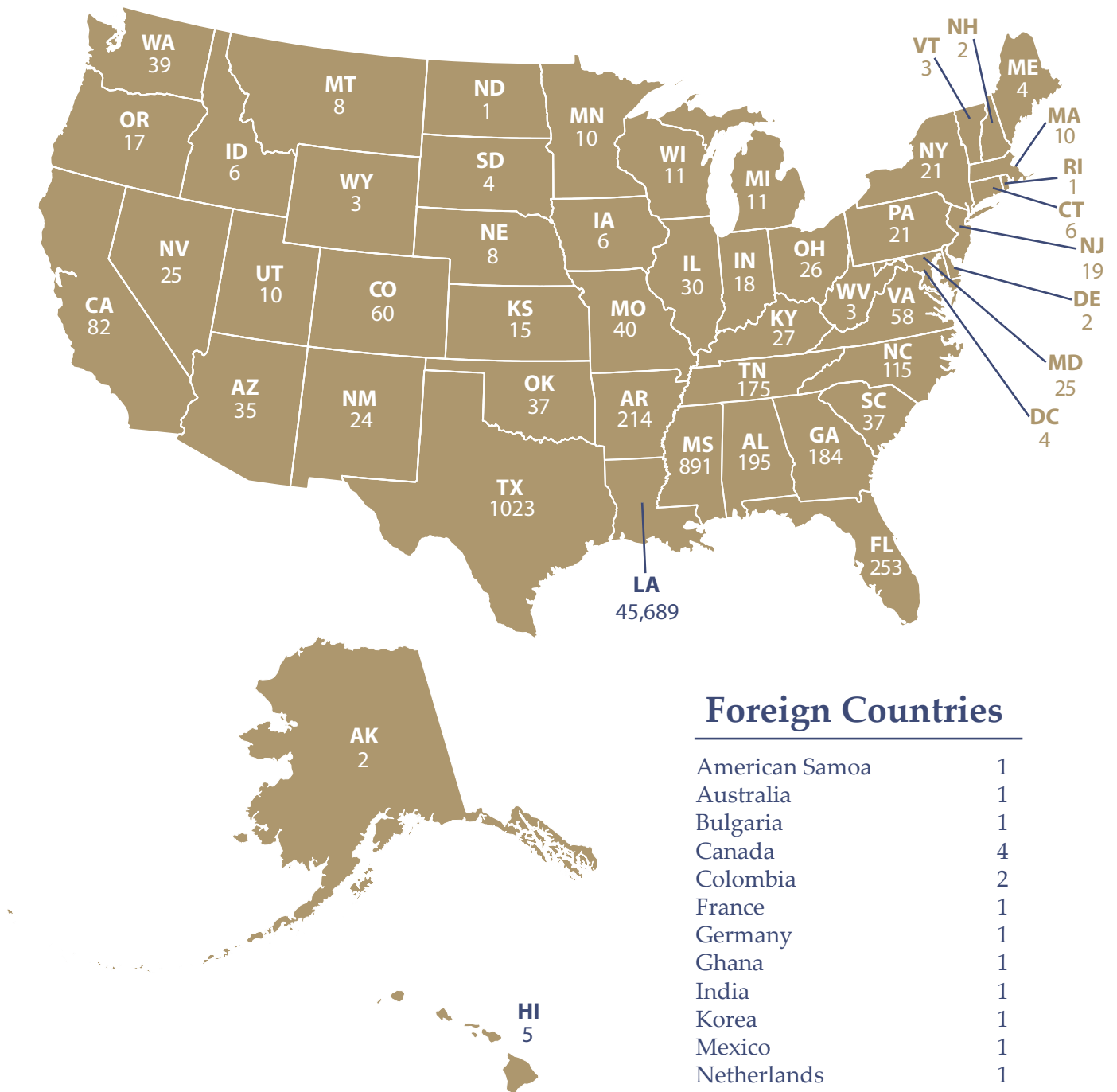
Retirement Plan	Benefit Recipient Type	Fiscal Year									
		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Peace Officers (Hired before January 1, 2011)	Regular Retiree	33	36	40	45	47	49	52	56	57	60
	Survivor	-	-	-	-	-	-	-	-	1	1
	Disability Retiree	1	1	1	1	1	1	1	1	1	1
	DROP Accrual	1	3	3	6	5	2	1	5	8	8
Peace Officers-Total		35	40	44	52	53	52	54	62	67	70
Appellate Law Clerks (Hired before July 1, 2006)	Regular Retiree	14	21	28	36	40	47	57	58	61	66
	Disability Retiree	-	-	-	1	1	1	1	1	1	1
	DROP Accrual	2	-	1	1	1	2	3	7	7	4
	Appellate Law Clerks-Total	16	21	29	38	42	50	61	66	69	71
Appellate Law Clerks 2 (Hired before July 1, 2006)	Regular Retiree	-	-	-	-	-	-	-	1	1	1
	Appellate Law Clerks 2-Total	-	-	-	-	-	-	-	1	1	1
Wildlife Agents (Hired before July 1, 2003)	Regular Retiree	123	117	112	109	102	93	86	83	79	75
	Survivor	57	55	54	51	56	60	62	59	55	53
	Disability Retiree	17	17	16	15	14	15	15	15	14	13
	DROP Accrual	-	-	-	-	-	-	-	-	-	-
Wildlife Agents (Before 2003)-Total		197	189	182	175	172	168	163	157	148	141
Wildlife Agents (Hired on or after July 1, 2003)	Regular Retiree	57	69	78	86	91	93	103	109	112	114
	Survivor	3	3	3	3	3	3	3	4	6	7
	Disability Retiree	3	3	3	3	3	3	3	4	3	3
	DROP Accrual	8	6	5	1	2	3	3	1	4	6
Wildlife Agents (After 2003)-Total		71	81	89	93	99	102	112	118	125	130
Judges (Elected before January 1, 2011)	Regular Retiree	225	227	235	278	282	276	276	272	272	315
	Survivor	88	89	90	95	98	107	112	107	115	117
	Disability Retiree	5	5	5	5	5	5	5	5	4	4
	DROP Accrual	11	13	21	22	15	10	10	8	5	8
Judges (Before 2011)-Total		329	334	351	400	400	398	403	392	396	444

Retired Members by Recipient Type and Plan (continued)

Ten Years Ended June 30, 2021

Retirement Plan	Benefit Recipient Type	Fiscal Year									
		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Judges	Regular Retiree	-	-	-	-	-	-	-	-	0	4
(Elected after January 1, 2011)											
Judges (After 2011)-Total		-	-	-	-	-	-	-	-	-	4
Legislators	Regular Retiree	88	90	85	81	80	73	71	69	67	68
(Elected before January 1, 2011)											
	Survivor	25	23	26	28	28	33	34	32	32	29
Legislators-Total		113	113	111	109	108	106	105	101	99	97
Special Legislative Employees	Regular Retiree	-	-	-	1	1	1	1	1	2	2
	DROP Accrual	-	-	-	1	1	1	-	-	-	-
Special Legislative Employees-Total		-	-	-	2	2	2	1	1	2	2
Bridge Police Employees	Regular Retiree	1	2	2	2	1	1	2	2	2	2
(Hired before July 1, 2006)											
	Survivor	-	-	-	-	1	-	-	-	-	-
	DROP Accrual	-	-	-	1	1	1	-	-	-	-
Bridge Police Employees-Total		1	2	2	3	3	2	2	2	2	2
Hazardous Duty	Regular Retiree	20	59	69	78	95	113	131	155	172	192
(Hired on or after January 1, 2011)											
	Survivor	-	-	-	1	1	2	2	3	6	9
	Disability Retiree	-	-	1	3	5	5	6	9	10	12
	DROP Accrual	1	1	3	9	8	11	8	6	4	9
Hazardous Duty-Total		21	60	73	91	109	131	147	173	192	222
Alcohol and Tobacco Control	Regular Retiree	4	4	7	8	8	8	9	9	10	11
(Hired on or after June 30, 2007)											
	Disability Retiree	-	-	-	1	1	1	1	1	1	1
	DROP Accrual	-	-	-	-	-	-	-	1	1	1
Alcohol and Tobacco Control-Total		4	4	7	9	9	9	10	11	12	13
NO Harbor Police	Regular Retiree	-	-	-	-	29	29	26	26	28	29
(Hired on or after June 30, 2007)											
	Survivor	-	-	-	-	7	8	9	10	10	11
	Disability Retiree	-	-	-	-	2	2	3	3	3	4
	DROP Accrual	-	-	-	-	-	3	5	4	3	3
NO Harbor Police		-	-	-	-	38	42	43	43	44	47
Grand Total Benefit Recipients		45,300	47,517	48,778	49,325	49,810	50,199	50,404	50,623	50,708	50,846

Location of LASERS Benefit Recipients¹



¹Recipients include Regular, Disability and Survivor retirees

Fiscal Year 2021 Gross Benefits Paid by Region

This chart provides a regional snapshot of benefits paid to retirees during the 2020-2021 fiscal year. It does not include DROP, IBO, and lump sum leave payments. The parishes are separated into eight regions: Shreveport, Monroe, Alexandria, Lake Charles, Acadiana, Baton Rouge, New Orleans, and North Shore.



Fiscal Year 2021 Gross Benefits Paid by Region (continued)

Acadiana

Acadia	\$ 8,717,198
Evangeline	7,134,251
Iberia	7,673,364
Lafayette	43,198,026
St. Landry	14,314,712
St. Martin	10,038,680
St. Mary	3,282,390
Vermilion	6,682,131
	<hr/>
	\$ 101,040,752

Alexandria

Avoyelles	21,933,684
Catahoula	2,358,329
Concordia	2,705,109
Grant	8,105,902
La Salle	2,297,562
Natchitoches	10,017,094
Rapides	56,041,270
Sabine	3,895,440
Vernon	6,041,973
Winn	2,413,217
	<hr/>
	\$ 115,809,580

Baton Rouge

Ascension	33,379,862
Assumption	1,934,773
East Baton Rouge	267,305,590
East Feliciana	29,853,956
Iberville	14,302,486
Livingston	57,106,538
Pointe Coupee	11,334,219
St. James	2,891,504
West Baton Rouge	14,117,673
West Feliciana	13,411,778
	<hr/>
	\$ 445,638,379

Lake Charles

Allen	3,308,047
Beauregard	5,205,855
Calcasieu	29,692,682
Cameron	585,950
Jefferson Davis	4,695,700
	<hr/>
	\$ 43,488,234

Monroe

Caldwell	\$ 3,515,031
East Carroll	835,121
Franklin	6,367,665
Jackson	3,454,954
Lincoln	16,331,733
Madison	2,143,604
Morehouse	4,042,178
Ouachita	36,074,793
Richland	5,305,544
Tensas	1,535,257
Union	5,508,956
West Carroll	1,978,764
	<hr/>
	\$ 87,093,600

New Orleans

Jefferson	67,888,857
Lafourche	16,748,874
Orleans	76,355,519
Plaquemines	2,231,033
St. Bernard	4,542,377
St. Charles	4,808,955
St. John the Baptist	5,173,140
Terrebonne	15,566,518
	<hr/>
	\$ 193,315,273

North Shore

St. Helena	3,942,561
St. Tammany	39,524,315
Tangipahoa	39,934,548
Washington	17,014,652
	<hr/>
	\$ 100,416,076

Shreveport

Bienville	3,832,683
Bossier	21,824,180
Caddo	52,910,963
Claiborne	5,238,987
De Soto	4,121,494
Red River	2,225,709
Webster	8,242,062
	<hr/>
	\$ 98,396,078

Total

\$ 1,185,197,972

Top 10 Contributing Employers by Member Count

Ten Years Ended June 30, 2021

	Agency Name	Member Count	% of Total Members
2021	Department of Corrections	4,248	10.8%
	Department of Transportation & Development	3,958	10.0%
	Department of Children & Family Services	3,350	8.5%
	Louisiana State University	1,593	4.0%
	Division of Administration Office of Human Resources	1,556	3.9%
	Office for Citizens With Disabilities	1,512	3.8%
	Office of Behavioral Health	1,469	3.7%
	Department of Public Safety	1,392	3.5%
	Department of Health & Hospitals Office of Public Health	1,181	3.0%
	Department of Health & Hospitals Medical Vendor Administration	879	2.2%
2020	Department of Corrections	4,528	11.2%
	Department of Transportation & Development	3,918	9.7%
	Department of Children & Family Services	3,420	8.5%
	Louisiana State University	1,570	3.9%
	Office for Citizens With Disabilities	1,535	3.8%
	Office of Behavioral Health	1,529	3.8%
	Division of Administration Office of Human Resources	1,521	3.8%
	Department of Public Safety	1,407	3.5%
	Department of Health & Hospitals Office of Public Health	1,147	2.8%
	Department of Health & Hospitals Medical Vendor Administration	811	2.0%
2019	Department of Corrections	4,588	11.3%
	Department of Transportation & Development	3,986	9.9%
	Department of Children & Family Services	3,406	8.4%
	Louisiana State University	1,616	4.0%
	Division of Administration Office of Human Resources	1,522	3.8%
	Office for Citizens With Disabilities	1,505	3.7%
	Office of Behavioral Health	1,376	3.4%
	Department of Public Safety	1,346	3.3%
	Department of Health & Hospitals Office of Public Health	1,119	2.8%
	Department of Health & Hospitals Medical Vendor Administration	761	1.9%
2018	Department of Corrections	4,606	11.4%
	Department of Transportation & Development	3,977	9.9%
	Department of Children & Family Services	3,328	8.3%
	Louisiana State University	1,699	4.2%
	Division of Administration Office of Human Resources	1,463	3.6%
	Department of Public Safety	1,386	3.4%
	Office for Citizens With Disabilities	1,385	3.4%
	Office of Behavioral Health	1,337	3.3%
	Department of Health & Hospitals Office of Public Health	1,086	2.7%
	Department of Health & Hospitals Medical Vendor Administration	802	2.0%

Top 10 Contributing Employers by Member Count (continued)

Ten Years Ended June 30, 2021

	Agency Name	Member Count	% of Total Members
2017	Department of Corrections	4,531	11.3%
	Department of Transportation & Development	3,966	9.9%
	Department of Children & Family Services	3,299	8.2%
	Division of Administration Office of Human Resources	1,847	4.6%
	Louisiana State University	1,434	3.6%
	Department of Public Safety	1,328	3.3%
	Office for Citizens With Disabilities	1,281	3.2%
	Office of Behavioral Health	1,279	3.2%
	Department of Health & Hospitals Office of Public Health	1,058	2.6%
	Department of Health & Hospitals Medical Vendor Administration	841	2.1%
2016	Department of Corrections	4,611	11.5%
	Department of Transportation & Development	3,919	9.7%
	Department of Children & Family Services	3,120	7.8%
	Louisiana State University	1,760	4.4%
	Division of Administration Office of Human Resources	1,633	4.1%
	Department of Public Safety	1,313	3.3%
	Office for Citizens With Disabilities	1,262	3.1%
	Office of Behavioral Health	1,239	3.1%
	Department of Health & Hospitals Office of Public Health	1,058	2.6%
	Department of Health & Hospitals Medical Vendor Administration	873	2.2%
2015	Department of Corrections	4,679	11.4%
	Department of Transportation & Development	3,976	9.7%
	Department of Children & Family Services	3,345	8.1%
	Louisiana State University	1,775	4.3%
	Division of Administration Office of Human Resources	1,499	3.6%
	Department of Public Safety	1,357	3.3%
	Office for Citizens With Disabilities	1,276	3.1%
	Office of Behavioral Health	1,264	3.1%
	Department of Health & Hospitals Office of Public Health	1,060	2.6%
	Department of Labor	851	2.1%
2014	Department of Corrections	4,635	11.1%
	Department of Transportation & Development	3,965	9.5%
	Department of Children & Family Services	3,419	8.2%
	Louisiana State University Medical Center in Shreveport	1,804	4.3%
	Louisiana State University	1,477	3.5%
	Medical Center of Louisiana New Orleans	1,388	3.3%
	Department of Public Safety	1,257	3.0%
	Office of Behavioral Health	1,239	3.0%
	Office for Citizens With Disabilities	1,038	2.5%
	Department of Health & Hospitals Office of Public Health	849	2.0%

Top 10 Contributing Employers by Member Count (continued)

Ten Years Ended June 30, 2021

	Agency Name	Member Count	% of Total Members
2013	Department of Corrections	4,657	9.6%
	Department of Transportation & Development	4,098	8.5%
	Department of Children & Family Services	3,446	7.1%
	Louisiana State University Medical Center in Shreveport	2,625	5.4%
	Office for Citizens With Disabilities	1,864	3.9%
	Office of Behavioral Health	1,603	3.3%
	Louisiana State University	1,561	3.2%
	Medical Center of Louisiana New Orleans	1,470	3.0%
	Department of Public Safety	1,285	2.7%
	Department of Health & Hospitals Office of Public Health	1,051	2.2%
2012	Department of Corrections	5,043	9.4%
	Department of Transportation & Development	4,173	7.8%
	Department of Children & Family Services	3,685	6.9%
	Louisiana State University Medical Center in Shreveport	2,849	5.3%
	Office for Citizens With Disabilities	2,362	4.4%
	Office of Behavioral Health	2,078	3.9%
	Louisiana State University	1,886	3.5%
	Medical Center of Louisiana New Orleans	1,787	3.3%
	Department of Public Safety	1,528	2.8%
	Department of Health & Hospitals Office of Public Health	1,162	2.2%

The LASERS Mission

To provide a sound retirement plan for our members through prudent management and exceptional service

The LASERS Vision

Confidence in our service, assuring financial security for your future

LASERS Core Values

Highest Ethical Standards
Integrity
Prudent Management

2021 Comprehensive Annual Financial Report

For Fiscal Years Ended June 30, 2021 & 2020

LOUISIANA RETIREMENT
SYSTEMS BUILD
8401
LASERS

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