

**PUBLIC SCHOOL RETIREMENT SYSTEM  
OF THE CITY OF ST. LOUIS**  
**MINUTES OF THE BOARD OF TRUSTEES REGULAR MEETING**  
**April 18, 2022**

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**I. ROLL CALL AND ANNOUNCEMENT OF A QUORUM**

The April meeting of the Board of Trustees of the Public School Retirement System of the City of St. Louis (PSRSSTL) was called to order at around 4:35 p.m. on Monday, April 18, 2022. The meeting was conducted by video conference through Zoom and a Livestream on YouTube. Bobbie Richardson, Vice-Chairman of the Board of Trustees, was the presiding officer until Louis Cross joined the meeting in progress.

Roll Call was taken and Angela Banks, Christina Bennett, Sheila Goodwin, Bobbie Richardson, Albert Sanders, Justin Stein, and Dorris Walker were present. The Board of Trustees had a quorum at the meeting. Trustees Louis Cross, Yvette Levy and Martel Mann joined the meeting in progress.

Executive Director Susan Kane, Accounting Specialist Terry Mayes, Attorney Representative Matt Gierse, Auditor Representative Jeanne Dee, and Actuary Representative Mike Ribble were also in attendance.

**II. APPROVAL OF MINUTES FROM LAST MEETING**

Albert Sanders made a motion, seconded by Dorris Walker, to approve the minutes of the Board of Trustees Meetings on February 28, 2022. By voice vote, the motion carried.

**III. READING OF COMMUNICATIONS TO THE BOARD OF TRUSTEES**

None

**IV. PRESENTATIONS BY INTERESTED PARTIES**

None

**V. CONSENT AGENDA**

Sheila Goodwin made a motion, seconded by Bobbie Richardson, to approve the Retirements and Benefits of February and March 2022. By voice vote, motion carried.

Sheila Goodwin made a motion, seconded by Albert Sanders, to approve the refunds and bills of February and March 2022. By voice vote, motion carried.

**VI. UNFINISHED BUSINESS**

None

**VII. REPORT OF THE CHAIRPERSON**

Chairman Cross then discussed the PSRSSTL presentation made to the St. Louis Public Schools Board of Education at the Work Session on March 29. The purpose of the presentation was to explain the funding status of the System which was impacted by the change in legislation passed in 2017 and to hopefully gain support for the proposed legislation to improve the System funding that is

being discussed with stakeholders. This may include additional meetings with the St. Louis Public Schools Board of Education.

Chairman Cross then explained that he would like to add Trustee Sanders back as a Co-Chair of the Investment Committee along with Trustee Bennett and Trustee Mann. Chairman Cross made a motion seconded by Trustee Walker to appoint Trustee Sanders as a third co-chair of the Investment Committee.

A roll call vote was taken.

|                |     |                   |     |                |     |
|----------------|-----|-------------------|-----|----------------|-----|
| Angela Banks   | Yes | Christina Bennett | Yes | Louis Cross    | Yes |
| Sheila Goodwin | Yes | Bobbie Richardson | Yes | Albert Sanders | Yes |
| Justin Stein   | Yes | Dorris Walker     | Yes |                |     |

The motion carried with eight yes votes.

Finally, Chairman Cross concluded his report with discussion of a letter received on a program sponsored by the St. Louis County Library to provide I-Pads to Retirees. He has spoken to several individuals from other organizations who are interested in this program. After discussion, it was agreed that additional information would be provided at a future meeting.

#### **VIII. REPORT OF THE EXECUTIVE DIRECTOR**

The Executive Director began by highlighting the materials included in Tab IV. She also provided follow-up on some items from the prior Board Meeting that were still ongoing. A search for a firm to assist with global class action lawsuits is still in progress. The Executive Director then mentioned that the process to provide electronic devices to interested Trustees for conducting PSRSSTL business was still continuing. Finally, she announced that there were several in person conferences sponsored by NCTR and MAPERS planned for later this year. There will be an additional meeting to explain the procedure and process for travel expenses.

The Executive Director then introduced Jeanne Dee from Anders Minkler Huber and Helm, who is the external audit firm. Ms. Dee congratulated the Board on a successful audit then reviewed several pages of the Audit Report. She mentioned that one of the Assets, Entrust, had been reclassified down to zero value, since it was indefinitely being held to resolve a legal matter with a foreign government. If this matter is resolved and the asset is later sold, then this gain can be recognized. After responding to questions and comments from the Trustees, she concluded her presentation.

#### **IX. REPORT OF THE INVESTMENT CONSULTANT**

None

#### **X. REPORT OF THE ACTUARY**

Mike Ribble from Buck, the Actuary Representative, was present to explain a brief clarification on an item that had been presented in the experience study. A part of the study included a look at the various methods, including amortization of the System's liability. Typically, this is between 15-20 years and Buck had intended to recommend a 15-year amortization. The slides had indicated 20-year amortization but the calculations in various parts of the experience study had used the 15-year amortization so there was no change in any of the numbers presented. He wanted to clarify that the

amortization should be 15 years and recommended that the Board adopt this. Since there was no further discussion, Trustee Bennett made a motion, seconded by Trustee Richardson to adopt a 15-year amortization period, which was included in the Cost effects of proposed assumptions presented to the Trustees at the December 2021 Regular Board Meeting.

A roll call vote was taken.

|                   |     |                   |     |              |     |
|-------------------|-----|-------------------|-----|--------------|-----|
| Angela Banks      | Yes | Christina Bennett | Yes | Louis Cross  | Yes |
| Sheila Goodwin    | Yes | Yvette Levy       | Yes | Martel Mann  | Yes |
| Bobbie Richardson | Yes | Albert Sanders    | Yes | Justin Stein | Yes |
| Dorris Walker     | Yes |                   |     |              |     |

The motion carried with ten yes votes

## **XI. REPORTS OF COMMITTEES OF THE BOARD OF TRUSTEES**

The Chairman asked for reports from the Committees.

### **Benefits Committee**

No report.

### **Trustee Business Committee**

Co-Chair Walker announced to the Trustees that there will be a meeting on May 11 to discuss Trustee travel and will also include a training on Fiduciary Duty.

### **Investment Committee**

No report.

### **Legislative, Rules & Regulations Committee**

No report.

### **Personnel & Professional Contracts Committee**

No report.

## **XII. NEW BUSINESS**

None

## **XIII. REPORT OF THE ATTORNEY**

The Attorney did have a report but suggested that it be conducted in closed session. Albert Sanders made the motion to close the meeting, and that all records and votes, to the extent permitted by law, pertaining to and/or resulting from this closed meeting be closed under R.S.Mo. §§ 610.021 (1) for the

purpose of having a confidential or privileged communication with the Attorney. Dorris Walker seconded the motion.

A roll call vote was taken.

|                   |     |                   |     |              |     |
|-------------------|-----|-------------------|-----|--------------|-----|
| Angela Banks      | Yes | Christina Bennett | Yes | Louis Cross  | Yes |
| Sheila Goodwin    | Yes | Yvette Levy       | Yes | Martel Mann  | Yes |
| Bobbie Richardson | Yes | Albert Sanders    | Yes | Justin Stein | Yes |
| Dorris Walker     | Yes |                   |     |              |     |

The motion carried with ten yes votes and the meeting continued in closed session.

After the closed meeting discussion, Sheila Goodwin made a motion to open the meeting pursuant to R. S. Mo. §610.021. The motion was seconded by Bobbie Richardson.

A roll call vote was taken.

|                   |     |                   |     |              |     |
|-------------------|-----|-------------------|-----|--------------|-----|
| Angela Banks      | Yes | Christina Bennett | Yes | Louis Cross  | Yes |
| Sheila Goodwin    | Yes | Yvette Levy       | Yes | Martel Mann  | Yes |
| Bobbie Richardson | Yes | Albert Sanders    | Yes | Justin Stein | Yes |
| Dorris Walker     | Yes |                   |     |              |     |

The motion carried with ten yes votes

#### **XIV. ADJOURNMENT**

Sheila Goodwin made a motion, seconded by Albert Sanders, to adjourn the meeting. By voice vote, motion carried, and the meeting adjourned at around 6:15 p.m.

Attachments:

Refunds & Bills: February and March 2022  
Independent Auditor's Report

## Distributions - February, 2022

[illegible]



## Distributions -March 2022

| CHECK NUMBER | CHECK DATE | LAST NAME    | FIRST NAME/MI | GROSS (B+C)   | FEDERAL TAXES W/H | NET PAY       | STATUS<br>A(ctive)<br>R(etired) | REASON<br>D(eath)<br>S(eparation) | NOTES             |
|--------------|------------|--------------|---------------|---------------|-------------------|---------------|---------------------------------|-----------------------------------|-------------------|
| 078483       | 03/18/22   | ALWAYS-BAKER | JOE E         | 15,566.23     | 3,113.25          | 12,452.98     | A                               | S                                 | CA                |
| 078484       | 03/18/22   | BANKS        | RONALD L      | 11,441.11     | 2,288.22          | 9,152.89      | A                               | S                                 |                   |
| 078485       | 03/18/22   | BEANE        | RONIKIA C     | 15,485.23     |                   | 15,485.23     | A                               | S                                 |                   |
| 078486       | 03/18/22   | BROWN        | BEVERLY J     | 2,750.93      | 550.19            | 2,200.74      | A                               | S                                 | CA                |
| 078487       | 03/18/22   | CASEL        | LESLIE        | 6,056.84      |                   | 6,056.84      | A                               | S                                 |                   |
| 078488       | 03/18/22   | COPPERSMITH  | EMILY         | 6,628.24      | 1,325.65          | 5,302.59      | A                               | S                                 | SLIS              |
| 078489       | 03/18/22   | EARL         | RENITA        | 16,395.53     | 3,279.11          | 13,116.42     | A                               | S                                 |                   |
| 078490       | 03/18/22   | FITZ         | MADISON       | 2,639.88      | 527.98            | 2,111.90      | A                               | S                                 | KAIRO             |
| 078491       | 03/18/22   | GOOLSBY      | ANTHONY       | 7,616.46      | 1,523.29          | 6,093.17      | A                               | S                                 |                   |
| 078492       | 03/18/22   | HAWKINS      | MYRA S        | 4,788.66      | 957.73            | 3,830.93      | A                               | S                                 |                   |
| 078493       | 03/18/22   | HOLEMON      | REMANECESS    | 15,452.79     | 3,090.56          | 12,362.23     | A                               | S                                 |                   |
| 078494       | 03/18/22   | HUSIC        | ADILA         | 5,790.33      | 1,158.07          | 4,632.26      | A                               | S                                 | GSA               |
| 078495       | 03/18/22   | KENNETT      | NICOLE        | 10,352.23     | 2,070.45          | 8,281.78      | A                               | S                                 | CA                |
| 078496       | 03/18/22   | KOBY         | SUSAN         | 6,558.25      | 1,311.65          | 5,246.60      | A                               | S                                 |                   |
| 078497       | 03/18/22   | MARKMAN      | STEPHANIE     | 14,481.46     |                   | 14,481.46     | A                               | S                                 | KIPP SLPS         |
| 078498       | 03/18/22   | MINER        | DANIEL        | 1,462.52      | 292.50            | 1,170.02      | A                               | S                                 |                   |
| 078499       | 03/18/22   | MITCHELL     | KENYA         | 6,079.97      | 1,215.99          | 4,863.98      | A                               | S                                 |                   |
| 078500       | 03/18/22   | MITTLER      | MEAGHAN       | 15,611.35     |                   | 15,611.35     | A                               | S                                 |                   |
| 078501       | 03/18/22   | MOORE        | NASHEA        | 1,186.27      | 237.25            | 949.02        | A                               | S                                 | LFL               |
| 078502       | 03/18/22   | NASH         | RONALD        | 12,074.18     | 2,414.84          | 9,659.34      | A                               | S                                 | EAGLE             |
| 078503       | 03/18/22   | NASH         | TYRON         | 8,363.09      | 1,672.62          | 6,690.47      | A                               | S                                 | EAGLE             |
| 078504       | 03/18/22   | OLSON        | STEPHANIE     | 9,152.08      |                   | 9,152.08      | A                               | S                                 | SLIS              |
| 078505       | 03/18/22   | PEARSON      | TOSHA         | 17,958.68     | 3,591.74          | 14,366.94     | A                               | S                                 | CA SLPS           |
| 078506       | 03/18/22   | PROFFITT     | HANNAH E      | 2,896.56      |                   | 2,896.56      | A                               | S                                 | CA                |
| 078507       | 03/18/22   | ROBERTO      | LAUREN        | 5,986.46      |                   | 5,986.46      | A                               | S                                 |                   |
| 078508       | 03/18/22   | RUFFIN       | TYSON         | 1,054.42      | 210.88            | 843.54        | A                               | S                                 | CA                |
| 078509       | 03/18/22   | SAEY         | TAMARA        | 829.98        |                   | 829.98        | A                               | S                                 |                   |
| 078510       | 03/18/22   | SCHLERETH    | CONNOR        | 8,178.01      | 1,635.60          | 6,542.41      | A                               | S                                 | KIPP SLPS         |
| 078511       | 03/18/22   | SHIELDS      | ANTENICKA     | 3,348.64      | 669.73            | 2,678.91      | A                               | S                                 | KIPP              |
| 078513       | 03/18/22   | SHORTER      | COREY         | 5,000.00      |                   | 5,000.00      | A                               | S                                 |                   |
| 078512       | 03/18/22   | SHORTER      | COREY         | 2,766.27      | 553.25            | 2,213.02      | A                               | S                                 |                   |
| 078514       | 03/18/22   | SPINK        | JAMES         | 15,731.88     |                   | 15,731.88     | A                               | S                                 |                   |
| 078515       | 03/18/22   | SUTHERLIN    | ANGELA M      | 11,053.49     | 2,210.70          | 8,842.79      | A                               | S                                 |                   |
| 078516       | 03/18/22   | WAYNE        | CARVETTA      | 1,993.59      | 398.72            | 1,594.87      | A                               | S                                 | KIPP              |
| 078517       | 03/18/22   | WIGGLEY      | VICKIE        | 9,280.33      | 1,856.07          | 7,424.26      | A                               | S                                 |                   |
| 078518       | 03/18/22   | WILKS        | CLEMESIA      | 12,232.87     | 2,446.57          | 9,786.30      | A                               | S                                 | CA                |
| 078540       | 03/23/22   | BERGER       | KATHRYN       | 25,717.52     |                   | 25,717.52     | A                               | S                                 | SLIS SLPS         |
| 078541       | 03/23/22   | GORDON       | DELANDO       | 117.87        |                   | 117.87        | A                               | S                                 | ADDL CONTRIB PREM |
| 078542       | 03/23/22   | HOGANS       | KHADIHAH      | 4,007.47      | 801.49            | 3,205.98      | A                               | S                                 |                   |
| 078543       | 03/23/22   | LARKIN       | SHANNON       | 3,456.09      | 691.22            | 2,764.87      | A                               | S                                 | KIPP              |
| 078544       | 03/23/22   | ZHAO         | JENNY F       | 88,365.63     | 17,673.13         | 70,692.50     | A                               | S                                 | VOID AND REISSUE  |
| 078462       | 02/23/22   | ZHAO         | J FANG        | (88,365.63)   | (17,673.13)       | (70,692.50)   | A                               | S                                 | VOID AND REISSUE  |
| TOTAL        |            |              |               | \$ 327,543.76 | \$ 42,095.32      | \$ 285,448.44 |                                 |                                   |                   |

| Public School Retirement System of the City of St. Louis<br>Checks Written During the Month of February, 2022 |            |   |                     |
|---|------------|---|---------------------|
| Payee   | Ck. Number | Description                                 | Amount              |
| <b>Date Paid February 7, 2022</b>   |            |   |                     |
| ACC Business  | 78338      | Telephone Fiberoptics                       | 528.08              |
| Charter Communications  | 78339      | Charter Internet and Voice                  | 214.96              |
| Republic Services #346  | 78340      | Trash Pick-Up                               | 245.28              |
| Clayton Parking   | 78341      | February 2022 Parking - 2 Employees         | 140.00              |
| Microtek Document Imaging Systems, Inc.   | 78342      | Imaging Hosting For The Month of Jan. 2022  | 424.80              |
| The Berwyn Group  | 78343      | Online Address Search December 2021         | 150.00              |
| Blade Technologies  | 78344      | Professional Services                       | 2,343.00            |
| Mitel   | 78345      | Telephone Service                           | 284.37              |
| Office Essentials   | 78346      | Office Supplies                             | 125.31              |
| Specialty Mailing   | 78347      | Service - Pension Notices                   | 353.34              |
| Specialty Mailing   | 78348      | Service - Retiree Newsletters               | 712.75              |
| American Solutions For Business   | 78349      | 1099R Blank Forms, Envelopes                | 1,162.36            |
| CBRE - 608844   | 78350      | Engineer Services                           | 167.38              |
| St. Louis Mat & Linen Company   | 78351      | Floor Mats                                  | 220.00              |
| Blue Chip Pest Services   | 78352      | Pest Control                                | 46.00               |
| Full Care   | 78353      | Snow and Ice management                     | 475.00              |
| Causeway Capital Management LLC   | 78354      | 4th Quarter 2021 Management Fee             | 77,544.69           |
| Manulife Investment Management U.S. LLC   | 78355      | 4th Quarter 2021 Management Fee             | 30,329.90           |
| TCW Asset Management Company  | 78356      | 4th Quarter 2021 Management Fee             | 59,062.89           |
| Xponance, Inc.  | 78357      | 4th Quarter 2021 Management Fee             | 79,693.16           |
| Xponance, Inc.  | 78358      | 4th Quarter 2021 Management Fee             | 10,727.55           |
| Board of Education St. Louis Benefits Trust   | 78359      | Office Employees Insurance - Dental         | 189.56              |
| Board of Education St. Louis Benefits Trust   | 78360      | Office Employees Insurance - Vision         | 12.78               |
| Board of Education St. Louis Benefits Trust   | 78361      | Office Employees Insurance - Life           | 173.60              |
| Specialty Mailing   | 78362      | Postage - 1099R's                           | 2,455.07            |
| <b>Date Paid February 11, 2022</b>  |            |   |                     |
| Office Payroll  | ACH        | Office Payroll                              | 10,847.75           |
| AXA Equitable   | ACH        | 457 Contributions                           | 2,576.00            |
| Ameren Missouri   | 78363      | Electric Service                            | 2,810.65            |
| The Hartford  | 78364      | Workers Compensation                        | 220.00              |
| <b>Date Paid February 18, 2022</b>  |            |   |                     |
| Absopure Water Company  | 78365      | Water Cooler Service                        | 22.85               |
| Blade Technologies, Inc.  | 78366      | Professional Services                       | 2,077.00            |
| Gallagher Benefit Services, Inc.  | 78367      | Group Ins. Consulting Services Monthly Fee  | 3,320.25            |
| Konika Minolta Business Solutions USA Inc.  | 78368      | Service for Copier C360I, C364E             | 382.42              |
| BuildingStars STL Operations, Inc.  | 78369      | Janitorial Services                         | 1,386.00            |
| Purchase Power  | 78370      | Postage                                     | 1,000.00            |
| Buck Global, LLC  | 78371      | Actuarial & Consulting Services - Jan. 2022 | 10,816.00           |
| Specialty Mailing   | 78372      | Daily Pick-Up                               | 200.00              |
| Specialty Mailing   | 78373      | Service - Insurance Letters                 | 630.00              |
| Specialty Mailing   | 78374      | Service - 2099Rs                            | 708.68              |
| Hartnett Reyes-Jones. L.L.C.  | 78375      | Legal Fees                                  | 9,259.00            |
| Office Essentials   | 78376      | Office Supplies                             | 425.31              |
| MSD   | 78377      | Sewer Service                               | 68.05               |
| Tech Electronics, Inc.  | 78378      | Monitoring of Fire and Security Alarm       | 360.00              |
| CBRE - 60884  | 78379      | Management Fee - February 2022              | 1,228.29            |
| CBRE - 60884  | 78380      | Engineer Services                           | 59.15               |
| Blue Chip Pest Services   | 78381      | Pest Control                                | 46.00               |
| Full Care   | 78382      | Snow and Ice Management                     | 1,225.00            |
| Krause Key & Lock Service, Inc.   | 78383      | Repair Lock On 2nd Floor Restroom           | 99.48               |
| The Edgar Lomax Company   | 78384      | 4th Quarter 2021 Management Fee             | 80,308.11           |
| Westfield Capital Management Company, LP  | 78385      | 4th Quarter 2021 Management Fee             | 76,354.71           |
| NEPC, LLC   | 78386      | 4th Quarter 2021 Consulting Fee Fee         | 34,153.29           |
| NEPC, LLC   | 78387      | 4th Quarter 2021 Alt. Investment Mgmt. Fee  | 12,500.00           |
| US Bank   | 78388      | 4th Quarter 2021 Custodial Fee              | 26,688.04           |
| <b>Date Paid February 25, 2022</b>  |            |   |                     |
| Office Payroll  | ACH        | Office Payroll                              | 10,847.75           |
| AXA Equitable   | ACH        | 457 Contributions                           | 2,576.00            |
|   |            | <b>TOTAL</b>                                | <b>\$560,977.61</b> |



| Public School Retirement System of the City of St. Louis<br>Checks Written During the Month of March, 2022 |            |   |                     |
|--|------------|---|---------------------|
| Payee  | Ck. Number | Description                                     | Amount              |
| <b>Date Paid March 4, 2022</b>   |            |   |                     |
| Ameren Missouri  | 78464      | Electric Service                                | 2,317.38            |
| ACC Business   | 78465      | Telephone Fiberoptics                           | 520.94              |
| Charter Communications   | 78466      | Charter Internet and Voice                      | 219.96              |
| Republic Services #346   | 78467      | Trash Pick-Up                                   | 245.28              |
| Clayton Parking  | 78468      | March 2022 Parking - 2 Employees                | 140.00              |
| Microtek Document Imaging Systems, Inc.  | 78469      | Imaging Hosting For The Month of Feb. 2022      | 424.80              |
| Blade Technologies   | 78470      | Professional Services                           | 667.00              |
| Office Essentials  | 78471      | Office Supplies                                 | 372.65              |
| Anders CPAs & Advisors   | 78472      | Audit of Financial Stmtts., Process 1099R Forms | 7,500.00            |
| Tech Electronics, Inc.   | 78473      | Final Billing For Camera Additions              | 3,370.00            |
| Pitney Bowes Global Financial Services LLC   | 78474      | Lease Charges                                   | 1,256.22            |
| Justin Stein   | 78475      | Visit With Legislators-Missouri State Capitol   | 147.84              |
| Louis C. Cross III   | 78476      | Visit With Legislators-Missouri State Capitol   | 352.24              |
| Christina C. Bennett   | 78477      | NASP 32nd Annual Convergence Virtual Reg. Fee   | 75.00               |
| VSP Construction Services, Inc.  | 78478      | Trasnsition Strip                               | 195.00              |
| Fidelity Institutional Asset Mgmt. Trust Co.   | 78479      | 4th Quarter 2021 Management Fee                 | 76,160.82           |
| Board of Education St. Louis Benefits Trust  | 78480      | Office Employees Insurance - Dental             | 189.56              |
| Board of Education St. Louis Benefits Trust  | 78481      | Office Employees Insurance - Vision             | 12.78               |
| Board of Education St. Louis Benefits Trust  | 78482      | Office Employees Insurance - Life               | 173.60              |
| <b>Date Paid March 11, 2022</b>  |            |   |                     |
| Office Payroll   | ACH        | Office Payroll                                  | 10,847.75           |
| AXA Equitable  | ACH        | 457 Contributions                               | 2,576.00            |
| <b>Date Paid March 21, 2022</b>  |            |   |                     |
| Absopure Water Company   | 78519      | Water Cooler Service                            | 21.95               |
| Blade Technologies, Inc.   | 78520      | Professional Services                           | 2,107.00            |
| Gallagher Benefit Services, Inc.   | 78521      | Group Ins. Consulting Services Monthly Fee      | 3,320.25            |
| Konika Minolta Business Solutions USA Inc.   | 78522      | Service for Copier C360I, C364E                 | 232.85              |
| Purchase Power   | 78523      | Postage   | 600.00              |
| Buck Global, LLC   | 78524      | Actuarial & Consulting Services - Feb. 2022     | 5,816.00            |
| Specialty Mailing  | 78525      | Daily Pick-Up                                   | 140.00              |
| Hartnett Reyes-Jones. L.L.C.   | 78526      | Legal Fees                                      | 9,710.20            |
| Office Essentials  | 78527      | Office Supplies                                 | 204.38              |
| MSD  | 78528      | Sewer Service                                   | 62.88               |
| Mitel  | 78529      | Telephone Service                               | 287.20              |
| Gregory F.X. Daly - Collector of Revenue   | 78530      | Water - City                                    | 110.58              |
| Randy Elam   | 78531      | Efax Renewal, Microsoft 365 Annual Renewal      | 340.12              |
| Richard Cadice   | 78532      | Repayment For Postage Due Letter                | 3.97                |
| CBRE - 60884   | 78533      | Management Fee - March 2022                     | 1,228.29            |
| CBRE - 60884   | 78534      | Engineer Services                               | 167.37              |
| Blue Chip Pest Services  | 78535      | Pest Control                                    | 46.00               |
| St. Louis Mat & Linen Company  | 78536      | Floor Mats                                      | 220.00              |
| Full Care  | 78537      | Snow and Ice Management                         | 9,121.25            |
| Yardi Marketplace  | 78538      | Touchless Hand Towels                           | 353.70              |
| Weber Fire And Safety  | 78539      | Annual Inspection                               | 85.00               |
| <b>Date Paid March 25, 2022</b>  |            |   |                     |
| Office Payroll   | ACH        | Office Payroll                                  | 10,847.75           |
| AXA Equitable  | ACH        | 457 Contributions                               | 2,576.00            |
| Zoom Video Communications, Inc.  | 78545      | Zoom, Cloud Recording, Webinar                  | 1,029.90            |
| Specialty Mailing  | 78546      | Postage - Retiree Newsletters                   | 1,164.13            |
| AndCo  | 78547      | 1st Quarter 2022 Consulting Fee                 | 47,500.00           |
|  |            | <b>TOTAL</b>                                    | <b>\$205,061.59</b> |

**PUBLIC SCHOOL  
RETIREMENT SYSTEM**  
OF THE CITY OF ST LOUIS

# **PUBLIC SCHOOL RETIREMENT SYSTEM OF THE CITY OF ST. LOUIS**

Financial Statements with Required Supplementary  
Information and Other Supplementary Information and  
Independent Auditors' Report

**YEARS ENDED DECEMBER 31, 2021 AND 2020**



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## **Independent Auditors' Report**

The Board of Trustees  
Public School Retirement System of the City of St. Louis  
St. Louis, Missouri

### ***Opinion***

We have audited the accompanying financial statements of Public School Retirement System of the City of St. Louis (the "System"), which comprise the statements of fiduciary net position as of December 31, 2021 and 2020, and the related statements of changes in fiduciary net position for the years then ended, and the related notes to the financial statements.

In our opinion, the financial statements referred to above present fairly, in all material respects, the fiduciary net position of Public School Retirement System of the City of St. Louis as of December 31, 2021 and 2020, and the changes in its fiduciary net position for the years then ended in accordance with accounting principles generally accepted in the United States of America.

### ***Basis for Opinion***

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the System and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

### ***Responsibilities of Management for the Financial Statements***

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for 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.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the System's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

## ***Auditors' Responsibilities for the Audit of the Financial Statements***

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with generally accepted auditing standards, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the System's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the System's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

## ***Required Supplementary Information***

Accounting principles generally accepted in the United States of America require that Management's Discussion and Analysis and the other required supplementary information, as listed in the Table of Contents, be presented to supplement the basic financial statements. Such information is the responsibility of management and 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 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 audits 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 Supplementary Information***

Our audits were conducted for the purpose of forming an opinion on the System's basic financial statements. The other supplementary information on pages 43 - 49 is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audits of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the other supplementary information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

A handwritten signature in blue ink that reads "Anders Minkler Huber & Helms LLP". The signature is written in a cursive, flowing style.

April 18, 2022

**Public School Retirement System of the City of St. Louis  
Management's Discussion and Analysis  
Year Ended December 31, 2021**

The Management Discussion and Analysis ("MD&A") for the Public School Retirement System of the City of St. Louis ("PSRSSTL") provides an overview of PSRSSTL financial activities for the fiscal year ended December 31, 2021. This MD&A is presented as required supplementary information to the financial statements and should be read in conjunction with the PSRSSTL financial statements, notes to the financial statements, required supplementary information, and other supplementary information.

The basic financial statements contained in this section of the MD&A consist of:

- The Condensed Statements of Fiduciary Net Position illustrate the System's assets, liabilities, and resulting fiduciary net position where  $\text{Assets} - \text{Liabilities} = \text{Fiduciary Net Position}$  held in trust for pension benefits available at the end of a fiscal year. These statements are a snapshot of the financial position of the System at specific points in time.
- The Condensed Statements of Changes in Fiduciary Net Position summarize the System's financial transactions throughout a fiscal year where  $\text{Additions} - \text{Deductions} = \text{Change in Fiduciary Net Position}$ . These statements support the change from the prior year's net position on the Statements of Fiduciary Net Position.
- The Notes to the Financial Statements are an integral part of these basic financial statements and contain information that helps better understand them.
- The required supplementary MD&A information, the Required Supplementary Information, and Other Supplementary Information following the Notes to the Financial Statements provide detailed historical information that is useful in evaluating the condition of the retirement plan administered by PSRSSTL.

The System's fiduciary net position was \$972,827,656 at December 31, 2021, which represents an increase of \$58,050,702 from December 31, 2020. This increase was due to investment returns during the 2020 fiscal year that were far above the System's assumed rate of return. The performance results increased the System's asset values for most investment categories at December 31, 2021.

The System's investment returns were 12.4% in fiscal year 2021, 8.9% in fiscal year 2020, and 16.8% in fiscal year 2019. The System's investment return in fiscal year 2021, when compared to fiscal year 2020, represents positive increases in investment values for most asset categories while volatility continued in the financial markets during the one year period. Predicting conditions in the marketplace is always challenging yet the Board of Trustees stands behind a sound Asset Allocation Policy by remaining focused on active monitoring of its money managers and long-term investment objectives. The actuarial assumed rate of return set by the Board of Trustees changed to 7.0% in fiscal year 2021.

Additions to fiduciary net position were \$173.2 million, \$136.3 million and \$188.6 million for fiscal years 2021, 2020 and 2019, respectively. The two highest additions to fiduciary net position in 2021 were net investment income of \$116 million and employer contributions of \$41.2 million. The main additions to fiduciary net position in 2020 were net investment income of \$69.4 and employer contributions \$41.8 million of member contributions. The main additions to fiduciary net position during 2019 were \$126.2 million of employer contributions and \$43.9 million of member contributions.

**Public School Retirement System of the City of St. Louis  
Management's Discussion and Analysis  
Year Ended December 31, 2021**

Deductions from fiduciary net position were \$115.2 million, \$114.5 million and \$114.9 million in fiscal years 2021, 2020 and 2019, respectively. Overall, most deductions, including operating expenses, decreased from the prior year, but the large increase in refunds to members drove the overall slight increase in deductions from fiduciary net position from 2021 to 2020. The nearly \$400,000 decrease in fiduciary net position between fiscal years 2020 and 2019 was due mainly to the decrease in contribution refunds paid to terminated or deceased members in fiscal year 2020.

## **FINANCIAL STATEMENTS**

The PSRSSTL financial report consists of two financial statements, (1) the Statements of Fiduciary Net Position, and (2) the Statements of Changes in Fiduciary Net Position. The Statements of Fiduciary Net Position provide details concerning PSRSSTL assets and liabilities other than long-term benefit obligations. However, PSRSSTL assets are the only source available to the System to pay pension benefits. The Statements of Changes in Fiduciary Net Position provide details regarding PSRSSTL financial activity during fiscal year 2021 that caused the change in fiduciary net position from fiscal year 2020 to fiscal year 2021.

Additionally, the financial report contains notes, supplementary information and actuarial data that provide further information to use while analyzing the System's financial statements.

## **FINANCIAL ANALYSIS**

On December 31, 2021, total assets and deferred outflow of resources of the System were \$974,941,723. Total assets consisted of cash, receivables, investments and an office building. When compared to fiscal year 2020, total assets and deferred outflows in fiscal year 2021 increased by 6.3%, or \$57,371,533, and can be attributed to higher than expected investment returns.

On December 31, 2021, total liabilities and deferred inflow of resources of the System were \$2,114,067. Total liabilities consisted of accounts payable and accrued expenses and net pension liability. Total liabilities and deferred inflows in fiscal year 2021, when compared to fiscal year 2020, decreased by \$(679,169), primarily because of the decrease in the System's deferred inflow of resources as required by GASB Statement No. 68.

On December 31, 2021, the fiduciary net position restricted for pensions was \$972,827,656, an increase of 6.3%, or \$58,050,702, from fiscal year 2020.

On December 31, 2020, total assets and deferred outflow of resources of the System were \$917,570,190. Total assets consisted of cash, receivables, investments and an office building. When compared to fiscal year 2019, total assets and deferred outflows in fiscal year 2020 increased by 2.5%, or \$21,948,986, and can be attributed to higher than expected investment returns.



**Public School Retirement System of the City of St. Louis**  
**Management's Discussion and Analysis**  
**Year Ended December 31, 2021**

On December 31, 2020, total liabilities and deferred inflow of resources for the System were \$2,793,236. Total liabilities consisted of accounts payable, accrued expenses, and net pension liability. Total liabilities and deferred inflows in fiscal year 2020, when compared to fiscal year 2019, increased by 8.2%, or \$211,721, primarily because of the increase in the deferred inflows of resources.

On December 31, 2020, the fiduciary net position restricted for pensions was \$914,776,954, an increase of 2.4%, or \$73,589,796, from fiscal year 2019.

**Condensed Statements of Fiduciary Net Position**

|   | <u>FY 2021</u>        | <u>FY 2020</u>        | <u>FY 2019</u>        | <u>FY 2021</u><br><u>% Change</u> | <u>FY 2020</u><br><u>% Change</u> |
|---|-----------------------|-----------------------|-----------------------|-----------------------------------|-----------------------------------|
| <b>Assets</b>                                       |                       |                       |                       |                                   |                                   |
| Cash  | \$ 9,538,225          | \$ 9,863,612          | \$ 9,803,323          | (3.3)%                            | 0.6 %                             |
| Receivables   | 809,964               | 822,998               | 827,629               | (1.6)%                            | (0.6)%                            |
| Investments   | 962,858,918           | 904,831,520           | 882,624,263           | 6.4 %                             | 2.5 %                             |
| Property and building, net                          | <u>1,520,115</u>      | <u>1,571,742</u>      | <u>1,623,368</u>      | (3.3)%                            | (3.2)%                            |
| Total Assets  | <u>974,727,222</u>    | <u>917,089,872</u>    | <u>894,878,583</u>    | 6.3 %                             | 2.5 %                             |
| <b>Deferred Outflows of Resources</b>               |                       |                       |                       |                                   |                                   |
| Deferred outflows of resources                      | <u>214,501</u>        | <u>480,318</u>        | <u>742,621</u>        | (55.3)%                           | (27.2)%                           |
| Total Assets and Deferred Outflows of Resources     | <u>974,941,723</u>    | <u>917,570,190</u>    | <u>895,621,204</u>    | 6.3 %                             | 2.5 %                             |
| <b>Liabilities</b>                                  |                       |                       |                       |                                   |                                   |
| Accounts payable and accrued expenses               | 818,796               | 867,927               | 728,909               | (5.7)%                            | 19.1 %                            |
| Net pension liability                               | <u>688,612</u>        | <u>1,051,687</u>      | <u>1,621,273</u>      | (34.5)%                           | (35.1)%                           |
| Total Liabilities                                   | <u>1,507,408</u>      | <u>1,919,614</u>      | <u>2,350,182</u>      | (21.5)%                           | (18.3)%                           |
| <b>Deferred Inflows of Resources</b>                |                       |                       |                       |                                   |                                   |
| Deferred inflows of resources                       | <u>606,659</u>        | <u>873,622</u>        | <u>231,333</u>        | (30.6)%                           | 58.1 %                            |
| Total Liabilities and Deferred Inflows of Resources | <u>2,114,067</u>      | <u>2,793,236</u>      | <u>2,581,515</u>      | (24.3)%                           | 8.2 %                             |
| <b>Fiduciary Net Position</b>                       | <u>\$ 972,827,656</u> | <u>\$ 914,776,954</u> | <u>\$ 893,039,689</u> | 6.3 %                             | 2.4 %                             |

**Public School Retirement System of the City of St. Louis  
Management's Discussion and Analysis  
Year Ended December 31, 2021**

**REVENUES – ADDITIONS TO FIDUCIARY NET POSITION**

The assets available to finance PSRSSTL pension benefits are accumulated through receipt of employer and member contributions as well as through earnings on investments. For fiscal year 2021, employer contributions were approximately \$41.2 million; member contributions were approximately \$20.8 million; and investments gained a net amount of approximately \$116 million. For fiscal year 2020, employer contributions were approximately \$41.8 million; member contributions were approximately \$17.6 million; and investments gained a net of approximately \$69.4 million. For fiscal year 2019, employer contributions were approximately \$43.9 million; member contributions were approximately \$17 million; and investments gained a net of approximately \$126.2 million.

Employer and member contributions combined increased by \$2.6 million in fiscal year 2021 compared to \$1.5 million in fiscal year 2020. These fluctuations in the contribution amounts are primarily due to the decrease of the employer contribution rate from 15.0% of covered compensation in fiscal year 2020 to 14.5% in fiscal year 2021, and the decrease from 19.10% of covered compensation in fiscal year 2018 to 16.00% in fiscal year 2019.

The PSRSSTL Actuary determines the amount of employer contributions required to maintain actuarial soundness of the System as part of the annual actuarial valuation report. However, through legislation passed in 2017, beginning with plan year 2018, the employer contribution rate was decreased to 16.0% of covered compensation. This rate will decrease by 0.5% in each future plan year until reaching a minimum of 9.0% and remain at 9.0% of covered compensation in all subsequent plan years.

An active member contribution rate of 5.00% of covered compensation was effective from July 1, 1999 through December 31, 2017. In 2018, through legislation passed in 2017, the active member contribution rate was increased to 5.50% of covered compensation for members hired before January 1, 2018. This rate will increase by 0.50% per year until reaching 9.00%. After that, the contribution rate will remain at 9.00% of covered compensation. The legislation requires new active members hired on or after January 1, 2018, to immediately contribute at a rate of 9.00%.

Net investment income was \$116 million, \$69.4 million and \$126.2 million in fiscal years 2021, 2020 and 2019, respectively. These fluctuations in net investment income occurred because the investment earning rates were 12.4%, 8.9% and 16.8% in fiscal years 2021, 2020 and 2019, respectively. Net investment income or (loss) reflects gross investment income or (loss) less investment expenses, such as investment manager, investment advisor and custodial fees.

**Public School Retirement System of the City of St. Louis**  
**Management's Discussion and Analysis**  
**Year Ended December 31, 2021**

**EXPENSES – DEDUCTIONS FROM FIDUCIARY NET POSITION**

The primary deductions from fiduciary net position were payments of retirement benefits, survivor benefits, disability benefits, retiree healthcare subsidies and refunds to members who have retired or terminated employment. PSRSSTL operating expenses in fiscal year 2021 were approximately .20% of assets, while operating expenses were approximately 0.21% and 0.24% of assets for 2020 and 2019, respectively.

**Condensed Statements of Changes in Fiduciary Net Position**

|   | <u>FY 2021</u>              | <u>FY 2020</u>              | <u>FY 2019</u>              | <u>FY 2021</u><br><u>% Change</u> | <u>FY 2020</u><br><u>% Change</u> |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------------|
| <b>Additions</b>                        |                             |                             |                             |                                   |                                   |
| Employer contributions                  | \$ 41,226,981               | \$ 41,822,334               | \$ 43,902,706               | (1.4)%                            | (4.7)%                            |
| Member contributions                    | 20,880,189                  | 17,607,279                  | 17,019,685                  | 18.6 %                            | 3.5 %                             |
| Net investment income                   | 116,054,836                 | 69,466,228                  | 126,231,937                 | 67.1 %                            | (45.0)%                           |
| Rental income                           | 170,397                     | 164,877                     | 161,263                     | 3.3 %                             | 2.2 %                             |
| Other income (loss)                     | <u>(5,071,188)</u>          | <u>7,264,633</u>            | <u>1,238,033</u>            | (169.8)%                          | 486.8 %                           |
| Total Additions                         | <u>173,261,215</u>          | <u>136,325,351</u>          | <u>188,553,624</u>          | 27.1 %                            | (27.7)%                           |
| <b>Deductions</b>                       |                             |                             |                             |                                   |                                   |
| Retirement benefits                     | 99,362,102                  | 99,692,129                  | 99,624,865                  | (0.3)%                            | 0.1 %                             |
| Survivor benefits                       | 2,987,195                   | 3,007,912                   | 3,043,126                   | (0.7)%                            | (1.2)%                            |
| Disability benefits                     | 3,347,554                   | 3,412,356                   | 3,575,042                   | (1.9)%                            | (4.6)%                            |
| Health care subsidies                   | 2,093,653                   | 2,129,938                   | 2,249,449                   | (1.7)%                            | (5.3)%                            |
| Operating expenses                      | 1,523,071                   | 1,906,813                   | 1,862,658                   | (20.1)%                           | 2.4 %                             |
| Refunds to members                      | <u>5,896,938</u>            | <u>4,438,938</u>            | <u>4,608,688</u>            | 32.8 %                            | (3.7)%                            |
| Total Deductions                        | <u>115,210,513</u>          | <u>114,588,086</u>          | <u>114,963,828</u>          | 0.5 %                             | (0.3)%                            |
| <b>Change in Fiduciary Net Position</b> | <u><u>\$ 58,050,702</u></u> | <u><u>\$ 21,737,265</u></u> | <u><u>\$ 73,589,796</u></u> | 167.1 %                           | (70.5)%                           |

**FINANCIAL SUMMARY**

For over 25 years, the PSRSSTL Investment Consultant has consistently calculated the System's investment performance; thereby, providing a valid basis on which performance can be compared with other public pension funds. For instance, the System's investments have provided consistent returns with cumulative PSRSSTL investment performance ranking in the top 50% of similar public pension plans for the last 25 years through the period ended December 31, 2021.

The fiduciary net position over this same timeframe has fluctuated from a low of \$780 million in fiscal year 1997 to a high of \$1.15 billion in fiscal year 2007. At the end of fiscal year 2021, the fiduciary net position was \$972.8 million. These fluctuations in the value of the System's fiduciary net position can be attributed to volatile financial market conditions, particularly due to the pandemic in the current year and other volatile market changes in other years, that caused substantial losses of investment returns in several fiscal years followed by large investment gains in other fiscal years.

**Public School Retirement System of the City of St. Louis**  
**Management's Discussion and Analysis**  
**Year Ended December 31, 2021**

Until fiscal year 2017, using the Governmental Accounting Standards Board ("GASB") calculation method implemented in 1992, the funded status of PSRSSTL remained stable by fluctuating within the range of 80.5% to 88.6% for 26 fiscal years. The funded ratio of a plan compares its assets to its liabilities; thereby, on an actuarial basis, measuring a plan's ability to fulfill future financial obligations to its members. The funded ratios of the PSRSSTL for fiscal years 2021, 2020 and 2019 were 78.7, 78.6%, and 78.5%, respectively. The dip in the System's funded ratio beginning with fiscal year 2017 was primarily due to the change in the System's actuarial assumed rate of return (discount rate) from 8.0% to 7.5%.

The Board of Trustees and the PSRSSTL Actuary assume that the PSRSSTL will continue to be funded on a sound actuarial basis provided required member and employer contributions are made as recommended, a prudent and well-diversified Asset Allocation Policy remains in place, quality investment managers continue to be selected, and the financial markets dodge sustained volatility. However, during fiscal year 2017, the Missouri General Assembly, in cooperation with then Governor Eric Greitens, enacted changes to the System's calculations for the required annual employer and member contributions that jeopardize the System's actuarial soundness. Unless this legislation is overturned or replaced, these changes will have adverse effects on the System and its ability to meet future financial obligations to its members. It is assumed that the Board of Trustees will fulfill its fiduciary duty to the System's membership by continuing to take the appropriate legal action against the legislation.

Despite the volatility in the market through 2021, the System experienced an investment return higher than anticipated.

#### **REQUESTS FOR INFORMATION**

This report is intended to provide the Board of Trustees, PSRSSTL members, and other interested parties a general overview of PSRSSTL financial matters. If any reader has questions about this report or needs additional financial information, contact the Public School Retirement System of the City of St. Louis.

**Public School Retirement System of the City of St. Louis**  
**Statements of Fiduciary Net Position**  
**December 31, 2021 and 2020**

| <b>Assets</b>                          | <u>2021</u>        | <u>2020</u>        |
|--|--------------------|--------------------|
| Cash                                   | \$ 9,538,225       | \$ 9,863,612       |
| Receivables                            |                    |                    |
| Accrued interest and dividends         | 567,667            | 582,304            |
| Other receivables                      | <u>242,297</u>     | <u>240,694</u>     |
| Total Receivables                      | <u>809,964</u>     | <u>822,998</u>     |
| Investments, at fair value             |                    |                    |
| Cash equivalents                       | 40,980,094         | 45,645,690         |
| Bonds                                  |                    |                    |
| U.S. Government and agency issues      | 28,800,098         | 30,541,590         |
| Corporate                              | 32,828,877         | 28,625,293         |
| Foreign investments (bonds and stocks) | 94,236,786         | 91,225,646         |
| Common and preferred stocks            | 230,724,806        | 209,538,964        |
| Mutual and co-mingled funds            | 402,073,191        | 389,396,506        |
| Real estate partnerships               | 54,001,917         | 46,928,887         |
| Limited partnerships                   | <u>79,213,149</u>  | <u>62,928,944</u>  |
| Total Investments                      | 962,858,918        | 904,831,520        |
| Property and Building, net             | <u>1,520,115</u>   | <u>1,571,742</u>   |
| Total Assets                           | <u>974,727,222</u> | <u>917,089,872</u> |

**Deferred Outflows of Resources**

|  |                |                |
|--|----------------|----------------|
| Deferred Outflows of Resources Related to Pensions | <u>214,501</u> | <u>480,318</u> |
|--|----------------|----------------|

**Liabilities**

|                                       |                  |                  |
|---------------------------------------|------------------|------------------|
| Accounts Payable and Accrued Expenses | 818,796          | 867,927          |
| Net Pension Liability                 | <u>688,612</u>   | <u>1,051,687</u> |
| Total Liabilities                     | <u>1,507,408</u> | <u>1,919,614</u> |

**Deferred Inflows of Resources**

|   |                |                |
|---|----------------|----------------|
| Deferred Inflows of Resources Related to Pensions | <u>606,659</u> | <u>873,622</u> |
|---|----------------|----------------|

**Net Position**

|                                      |                       |                       |
|--------------------------------------|-----------------------|-----------------------|
| Net Position Restricted for Pensions | <u>\$ 972,827,656</u> | <u>\$ 914,776,954</u> |
|--------------------------------------|-----------------------|-----------------------|

**Public School Retirement System of the City of St. Louis**  
**Statements of Changes in Fiduciary Net Position**  
**Years Ended December 31, 2021 and 2020**

|   | 2021                  | 2020                  |
|---|-----------------------|-----------------------|
| Additions   |                       |                       |
| Employer contributions                                  |                       |                       |
| St. Louis Public Schools                                | \$ 29,106,335         | \$ 29,884,664         |
| Sick leave conversion                                   | 109,983               | 117,129               |
| Charter Schools   | 11,930,457            | 11,746,232            |
| Retirement System                                       | 80,206                | 74,309                |
| Plan member contributions                               |                       |                       |
| St. Louis Public Schools                                | 14,326,129            | 11,795,498            |
| Charter Schools   | 6,512,595             | 5,775,829             |
| Retirement System                                       | 41,465                | 35,952                |
|   | <u>62,107,170</u>     | <u>59,429,613</u>     |
| Investment income (loss)                                |                       |                       |
| Cash equivalents  | 44,013                | 232,644               |
| Bonds   |                       |                       |
| U.S. Government and agency issues                       | (200,968)             | 1,928,940             |
| Corporate   | 1,245,389             | 585,817               |
| Foreign investments (bonds and stocks)                  | 15,955,237            | 4,865,413             |
| Common and preferred stock                              | 50,553,750            | 26,452,859            |
| Mutual and co-mingled funds                             | 27,208,873            | 36,832,371            |
| Limited partnerships                                    | 18,182,960            | 3,590,829             |
| Real estate partnerships                                | 7,481,063             | (1,083,252)           |
|   | <u>120,470,317</u>    | <u>73,405,621</u>     |
| Less investment expenses                                | <u>4,415,481</u>      | <u>3,939,393</u>      |
| Net investment income                                   | 116,054,836           | 69,466,228            |
| Rental income   | 170,397               | 164,877               |
| Other miscellaneous income (loss)                       | <u>(5,071,188)</u>    | <u>7,264,633</u>      |
| Net Additions   | <u>173,261,215</u>    | <u>136,325,351</u>    |
| Deductions  |                       |                       |
| Benefits paid   |                       |                       |
| Retirement benefits                                     | 99,362,102            | 99,692,129            |
| Survivor benefits                                       | 2,987,195             | 3,007,912             |
| Disability benefits                                     | 3,347,554             | 3,412,356             |
| Health care subsidies                                   | 2,093,653             | 2,129,938             |
|   | <u>107,790,504</u>    | <u>108,242,335</u>    |
| Operating expenses                                      | 1,523,071             | 1,906,813             |
| Contribution refunds due to death or resignation        | <u>5,896,938</u>      | <u>4,438,938</u>      |
| Total Deductions  | <u>115,210,513</u>    | <u>114,588,086</u>    |
| Net Increase in Net Position                            | 58,050,702            | 21,737,265            |
| Net Position Restricted for Pensions, Beginning of Year | <u>914,776,954</u>    | <u>893,039,689</u>    |
| Net Position Restricted for Pensions, End of Year       | <u>\$ 972,827,656</u> | <u>\$ 914,776,954</u> |

**Public School Retirement System of the City of St. Louis**  
**Notes to Financial Statements**  
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**1. Description of System**

**General**

The Public School Retirement System of the City of St. Louis (the "System") is the administrator of a cost-sharing multiple-employer defined benefit pension plan existing under provisions of the Revised Statutes of the State of Missouri (the "Statutes") to provide retirement benefits for all employees of the Board of Education of the City of St. Louis, of the Charter Schools located within the St. Louis School District, and of all employees of the System. The System issues a Comprehensive Annual Financial Report ("Annual Report"), a publicly available financial report that can be obtained at [www.psrstl.org](http://www.psrstl.org).

An eleven member Board of Trustees is responsible for general administration of the System and investing the System's assets. Trustees are appointed by plan members and the Board of Education of the City of St. Louis.

**Membership and Eligibility**

All persons employed on a full-time basis are members of the System as a condition of employment. Membership statistics, as of the latest actuarial valuations, are as follows:

|                           | January 1,<br>2021   | January 1,<br>2020   |
|---------------------------|----------------------|----------------------|
| Active members            | 4,984                | 5,108                |
| Inactive members          | <u>3,560</u>         | <u>3,274</u>         |
| Total members not retired | 8,544                | 8,382                |
| Retired members           |                      |                      |
| Service and survivors     | 4,161                | 4,237                |
| Disability                | <u>225</u>           | <u>240</u>           |
|                           | <u>4,386</u>         | <u>4,477</u>         |
| Total membership          | <u><u>12,930</u></u> | <u><u>12,859</u></u> |

**Vesting**

Full vesting on termination of employment after at least five years of service is provided if contributions remain with the System. The full benefit is payable at age 65 or at a reduced early retirement benefit prior to age 65.

**Funding Policy**

The funding objective of the System is to meet long-term benefit promises through contributions that remain approximately level from year to year as a percentage of covered payroll.

**Public School Retirement System of the City of St. Louis**  
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**Benefits**

Upon retirement at age 65, or at any age if age plus years of credited service equals or exceeds 80 (Rule of 80), or 85 (Rule of 85) if terminated prior to August 28, 2017, members receive monthly payments for life or yearly benefits equal to years of credited service multiplied by 2% of average final compensation or 1.75% of average final compensation if hired on or after January 1, 2018, but not to exceed 60% of average final compensation. Early retirement can occur prior at age 60 with five years of service or at the age the Rule of 80 or Rule of 85 is satisfied. The service retirement allowance is reduced five ninths of one percent for each month of commencement prior to age 65 or the age at which the Rule of 80 (Rule of 85 if terminated prior to August 28, 2017) would have been satisfied had the employee continued working until that age, if earlier.

In lieu of the benefit paid over the lifetime of the participant, reduced benefit options are available for survivor and beneficiary payments.

Members are eligible, after accumulation of five years of credited service, for disability benefits prior to eligibility of normal retirement. Survivor benefits are available for beneficiaries of members who die after at least 18 months of active membership.

The System pays a portion of health insurance premiums for retirees under Section 169.476 of the Statutes, as an expense of the System.

Benefits are recorded when paid.

**Return of Contributions Upon Death**

If, after the death of a participant, no further monthly amounts are payable to a beneficiary under an optional form of payment or under the survivor benefit provisions, the participant's beneficiary shall be paid the excess, if any, of the participant's accumulated contributions over all payments made to, or on behalf of, the deceased participant.

**Contributions by Participants**

Active participants hired before January 1, 2018 contributed 7.00% and 6.50% of covered compensation for the years ended December 31, 2021 and 2020, respectively. This rate increases 0.50% per year until it reaches 9.00%. After this, the contribution rate will remain at 9.00% of covered compensation. Active participants hired on or after January 1, 2018 contribute 9.00% of covered compensation.

Accumulated contributions are credited at the rate of interest established by the Board of Trustees. The current crediting rate is 5.00%.



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**Contributions by Employers**

The System's statutory required contribution rate applied to St. Louis Public Schools and the Retirement System was 15.00% and 15.50% of annual payroll for the years ended December 31, 2021 and 2020, respectively. For all other employers, the System's contractually required contribution rate was set at 14.50% and 15.00% of covered payroll for the years ended December 31, 2021 and 2020, respectively. These contribution rates shall be decreased by 0.50% in each subsequent year until reaching 9.00% of covered payroll. After this, the contribution rate will remain at 9.00% of covered payroll.

Contributions to the pension plan for System employees were \$80,206 and \$74,309 for the years ended December 31, 2021 and 2020, respectively.

**Expenses**

Operating expenses are paid out of investment income.

**Investment Policy**

The System's policy in regards to the allocation of invested assets is established and may be amended by the System's Board of Trustees. Investments are managed on a total return basis with a long-term objective of maintaining a fully funded status for the benefits provided through the pension plan. The following was the System's adopted asset allocation policy as of February 25, 2019:

| <u>Asset Class</u>   | <u>Target Allocation</u> | <u>Long-term<br/>Expected Real<br/>Rate of Return</u> |
|----------------------|--------------------------|---|
| Domestic Equity      | 25.5 %                   | 7.5 %   |
| International Equity | 23.5 %                   | 8.5 %   |
| Domestic Bonds       | 16.0 %                   | 2.5 %   |
| International Bonds  | 8.0 %                    | 3.5 %   |
| Real Estate          | 7.0 %                    | 4.5 %   |
| Alternative Assets   | 20.0 %                   | 6.1 %   |
| Total/Average        | <u>100.0 %</u>           | <u>6.1 %</u>  |

The long-term real return expectations remove the 2.5 percent inflation rate embedded in each nominal return assumption.

The 5.0 percent target allocation to Global Equity is allocated 3.5 percent to Domestic Equity and 1.5 percent to International Equity.

Alternative Assets include the target allocations to Global Asset Allocation, Hedge Funds, Private Equity and Private Debt. The Alternative Assets return assumption is based on an aggregation of multiple global asset class assumptions.

**Public School Retirement System of the City of St. Louis**  
**Notes to Financial Statements**  
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**2. Summary of Significant Accounting Policies**

**Basis of Presentation and Accounting**

The financial statements of the System have been prepared in accordance with the criteria established by the Governmental Accounting Standards Board ("GASB"), which is the source of authoritative accounting principles generally accepted in the United States of America ("GAAP"), as applied to governmental units. The System's financial statements are prepared using the accrual basis of accounting.

**Use of Estimates**

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

**Receivables**

Receivables consist of pending interest and dividends payable on investments held at the end of the year. Other receivables are amounts due to the System from members or family members of a deceased member for overpaid benefits.

**Investment Valuation and Income Recognition**

Investments are reported at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 4 for discussion of fair value measurements. Short-term investments are reported at cost, which approximates fair value. Securities traded on national or international exchanges are valued at the latest reported sales price at current exchange rates.

**Limited Partnerships**

Fair values of the limited partnership investments are based on valuations of the underlying companies of the limited partnerships as reported by the general partner. Certain limited partnerships reflect values on a quarter lag basis due to the nature of those investments and the time it takes to value them.

**Alternative Investments**

For alternative investments where no readily ascertainable fair value exists, management, in consultation with their investment advisors, values these investments in good faith based upon audited financial statements, cash flow analysis, purchase and sales of similar investments, other practices used within the industry, or other information provided by the underlying investment advisors. The estimated fair value of these investments may differ significantly from values that would have been used had a ready market existed.

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**Investment Income**

Investment income includes: realized gains (losses), unrealized appreciation (depreciation), dividends, interest, and other investment income. Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date.

**Investment Expenses**

Investment expenses consist of investment manager, investment advisor, limited partnership, and custodial bank fees.

**Fair Value Measurements**

The System follows guidance issued by the GASB on fair value measurements, which establishes a framework for measuring fair value, clarifies the definition of fair value within that framework, and expands disclosures about the use of fair value measurements. This guidance applies whenever fair value is the applicable measurement. The three general valuation techniques used to measure fair value are the market approach, cost approach, and income approach.

**Furniture and Equipment**

Acquisitions of furniture and equipment are charged to operating expense when purchased. The value of furniture and equipment owned by the System is deemed to be immaterial in relation to the total assets of the System.

**Property and Building**

The System records property, building, and related improvements at cost while expenditures for normal repairs and maintenance, which do not extend the useful life of the assets, are charged to operations as incurred. The System uses the straight-line method for the depreciation of the building and improvements over the estimated life of 40 years.

**Long-Lived Asset Impairment**

The System evaluates the recoverability of the carrying value of long-lived assets whenever events or circumstances indicate the carrying amount may not be recoverable. If a long-lived asset is tested for recoverability and the undiscounted estimated future cash flows expected to result from the use and eventual disposition of the asset are less than the carrying amount of the asset, the asset cost is adjusted to fair value and an impairment loss is recognized as the amount by which the carrying amount of a long-lived asset exceeds its fair value. The System does not believe any impairment exists as of December 31, 2021 and 2020.

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**Deferred Outflows and Inflows of Resources**

In addition to assets and liabilities, the statements of fiduciary net position will sometimes include separate sections for deferred outflows and inflows of resources. These separate financial statement elements represent the use or acquisition of net position that applies to a future period or periods and will not be recognized as an outflow or inflow of resources until then. The System has deferred outflows and inflows in the statements of fiduciary net position that relate to pension related deferrals required by GASB Statement No. 68.

**Pensions**

Pension-related expenses, liabilities, deferred outflows of resources, and deferred inflows of resources have been determined on the same basis as they are reported by the System. For this purpose, benefit payments are recognized when due and payable in accordance with the benefit terms.

**Subsequent Events**

The System has evaluated subsequent events through April 18, 2022, the date the financial statements were available to be issued.

**Reclassifications**

Certain amounts in the 2020 financial statements have been reclassified to conform to the current year presentation.

**Recent Accounting Pronouncements**

The following GASB Statements are effective for various reporting periods beginning after December 15, 2021.

- GASB Statement No. 87: *Leases*
- GASB Statement No. 91: *Conduit Debt Obligations*
- GASB Statement No. 92: *Omnibus 2020*
- GASB Statement No. 94: *Public-Private and Public-Public Partnerships and Availability Payment Arrangements*
- GASB Statement No. 96: *Subscription-Based Information Technology Arrangements*
- GASB Statement No. 97: *Certain Component Unit Criteria, and Accounting and Financial Reporting for Internal Revenue Code Section 457 Deferred Compensation Plans - an amendment of GASB Statements No. 14 and No. 84, and a superseding of GASB Statement No. 32.*

Based on preliminary analysis, the System does not expect the new guidance to have a significant impact on its financial statements.

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**3. Investments**

At December 31, 2021 and 2020, investments consisted of the following:

|  | 2021                 |                      |
|--|----------------------|----------------------|
|  | <u>Fair Value</u>    | <u>Cost</u>          |
| Cash equivalents                       | \$ 40,980,094        | \$ 40,980,094        |
| Bonds                                  |                      |                      |
| U.S. Government and agency issues      | 28,800,098           | 29,576,387           |
| Corporate                              | 32,828,877           | 34,292,287           |
| Foreign investments (bonds and stocks) | 94,236,786           | 79,731,976           |
| Common and preferred stocks            | 230,724,806          | 159,315,378          |
| Mutual and co-mingled funds            | 402,073,191          | 261,297,717          |
| Real estate partnerships               | 54,001,917           | 69,463,204           |
| Limited partnerships                   | 79,213,149           | 71,822,292           |
|  | <u>\$962,858,918</u> | <u>\$746,479,335</u> |
|  | 2020                 |                      |
|  | <u>Fair Value</u>    | <u>Cost</u>          |
| Cash equivalents                       | \$ 45,645,690        | \$ 45,645,690        |
| Bonds                                  |                      |                      |
| U.S. Government and agency issues      | 30,541,590           | 30,392,441           |
| Corporate                              | 28,625,293           | 29,647,263           |
| Foreign investments (bonds and stocks) | 91,225,646           | 76,121,495           |
| Common and preferred stocks            | 209,538,964          | 149,191,094          |
| Mutual and co-mingled funds            | 389,396,506          | 268,518,468          |
| Real estate partnerships               | 46,928,887           | 67,629,540           |
| Limited partnerships                   | 62,928,944           | 62,406,444           |
|  | <u>\$904,831,520</u> | <u>\$729,552,435</u> |

**4. Fair Value Measurements**

The framework for measuring fair value establishes a fair value hierarchy which prioritizes the inputs to valuation techniques used to measure fair value into Levels 1, 2, and 3. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). The three levels of the fair value hierarchy are described as follows:

- Level 1      Inputs to the valuation methodology are unadjusted quoted prices for identical instruments in active markets.
  
- Level 2      Inputs to the valuation methodology include quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in inactive markets, inputs other than quoted prices that are observable for the instrument, or inputs that are derived principally from or corroborated by observable market data by correlation or other means.

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Level 3      Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

Investments that are measured at fair value using the net asset value ("NAV") per share (or its equivalent) as a practical expedient are not classified in the fair value hierarchy.

The fair value amounts presented in the tables are intended to permit reconciliation of the fair value hierarchy to the line items presented in the statements of fiduciary net position. The instrument's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques maximize the use of relevant observable inputs and minimize the use of unobservable inputs.

Carrying amounts of certain financial instruments such as cash, receivables, accounts payable, and accrued expenses approximate fair value due to their short maturities or because the terms are similar to market terms. There have been no changes in the methodologies used at December 31, 2021 and 2020.

Following is a description of the valuation methodologies used for investments measured at fair value.

- Level 1      Investments consist of publicly traded common and preferred stocks and mutual funds. These investments are valued using the closing price reported on the active market on which the individual securities are traded.
- Level 2      Investments consist of corporate and foreign bonds and stocks, U.S. government securities and agency issues, and cash equivalent accounts. These securities are valued using pricing models maximizing the use of observable inputs for similar securities. This includes basing value on yields currently available on comparable securities of issuers with similar credit ratings.
- Level 3      Investments consist of real estate partnerships and limited partnerships. Real estate partnerships are valued at fair value as determined by the general partner. Limited partnerships are valued based on valuations of the underlying companies of the limited partnerships as reported by the general partner.

Investments also consist of co-mingled funds. These securities are valued at the NAV based on shares held by the System at year-end. The NAV is used as a practical expedient to estimate fair value.

The preceding methods described may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the System believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

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The following table presents the fair value measurements of instruments recognized in the accompanying statements of fiduciary net position measured at fair value on a recurring basis and the level within the fair value hierarchy in which the fair value measurements are categorized at December 31, 2021 and 2020:

|                                      | 2021                 |                         |                      |                      |
|--------------------------------------|----------------------|-------------------------|----------------------|----------------------|
|                                      | Total                | Fair Value Measurements |                      |                      |
|                                      |                      | Level 1                 | Level 2              | Level 3              |
| Cash equivalents                     | \$ 40,980,094        | \$ -                    | \$ 40,980,094        | \$ -                 |
| U.S. Government and agency issues    | 28,800,098           | -                       | 28,800,098           | -                    |
| Corporate bonds                      | 32,828,877           | -                       | 32,828,877           | -                    |
| Foreign investments                  | 94,236,786           | -                       | 94,236,786           | -                    |
| Common and preferred stocks          | 230,724,806          | 230,724,806             | -                    | -                    |
| Mutual funds                         | 262,128,076          | 262,128,076             | -                    | -                    |
| Real estate partnerships             | 54,001,917           | -                       | -                    | 54,001,917           |
| Limited partnerships                 | 79,213,149           | -                       | -                    | 79,213,149           |
| Total assets in fair value hierarchy | 822,913,803          | <u>\$492,852,882</u>    | <u>\$196,845,855</u> | <u>\$133,215,066</u> |
| Investments measured at NAV          | <u>139,945,115</u>   |                         |                      |                      |
|                                      | <u>\$962,858,918</u> |                         |                      |                      |

  

|                                      | 2020                 |                         |                      |                      |
|--------------------------------------|----------------------|-------------------------|----------------------|----------------------|
|                                      | Total                | Fair Value Measurements |                      |                      |
|                                      |                      | Level 1                 | Level 2              | Level 3              |
| Cash equivalents                     | \$ 45,645,690        | \$ -                    | \$ 45,645,690        | \$ -                 |
| U.S. Government and agency issues    | 30,541,590           | -                       | 30,541,590           | -                    |
| Corporate bonds                      | 28,625,293           | -                       | 28,625,293           | -                    |
| Foreign investments                  | 91,225,646           | -                       | 91,225,646           | -                    |
| Common and preferred stocks          | 209,538,964          | 209,538,964             | -                    | -                    |
| Mutual funds                         | 251,327,162          | 251,327,162             | -                    | -                    |
| Real estate partnerships             | 46,928,887           | -                       | -                    | 46,928,887           |
| Limited partnerships                 | 62,928,944           | -                       | -                    | 62,928,944           |
| Total assets in fair value hierarchy | 766,762,176          | <u>\$460,866,126</u>    | <u>\$196,038,219</u> | <u>\$109,857,831</u> |
| Investment measured at NAV           | <u>138,069,344</u>   |                         |                      |                      |
|                                      | <u>\$904,831,520</u> |                         |                      |                      |

Investments measured at fair value based on NAV per share practical expedient as of December 31, are as follows:

| December 31, 2021 | Fair Value     | Unfunded Commitments | Redemption Frequency | Redemption Notice Period |
|-------------------|----------------|----------------------|----------------------|--------------------------|
| Co-mingled funds  | \$ 139,945,115 | N/A                  | Daily                | 30 days                  |

  

| December 31, 2020 | Fair Value     | Unfunded Commitments | Redemption Frequency | Redemption Notice Period |
|-------------------|----------------|----------------------|----------------------|--------------------------|
| Co-mingled funds  | \$ 138,069,344 | N/A                  | Daily                | 30 days                  |

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The following table provides a summary of changes in fair value of the System's Level 3 assets for the years ended December 31, 2021 and 2020, as follows:

|   | <u>Limited<br/>Partnerships</u> | <u>Real Estate<br/>Partnerships</u> | <u>Total</u>          |
|---|---------------------------------|-------------------------------------|-----------------------|
| December 31, 2019                                     | \$ 52,066,573                   | \$ 48,419,609                       | \$ 100,486,182        |
| Realized gains  | 317,576                         | 41,563                              | 359,139               |
| Unrealized gains (losses)                             | 1,075,926                       | (2,906,098)                         | (1,830,172)           |
| Purchases, sales, issuances, and<br>settlements (net) | 7,307,044                       | -                                   | 7,307,044             |
| Investment income, net                                | 2,161,825                       | 1,781,284                           | 3,943,109             |
| Management fees                                       | -                               | (407,471)                           | (407,471)             |
| December 31, 2020                                     | 62,928,944                      | 46,928,887                          | 109,857,831           |
| Realized gains  | 6,231,172                       | 326,398                             | 6,557,570             |
| Unrealized gains                                      | 9,540,952                       | 5,239,365                           | 14,780,317            |
| Purchases, sales, issuances, and<br>settlements (net) | (1,917,327)                     | -                                   | (1,917,327)           |
| Investment income, net                                | 2,429,408                       | 1,915,300                           | 4,344,708             |
| Management fees                                       | -                               | (408,033)                           | (408,033)             |
| December 31, 2021                                     | <u>\$ 79,213,149</u>            | <u>\$ 54,001,917</u>                | <u>\$ 133,215,066</u> |

All assets have been valued using a market approach, except for Level 3 assets. Fair values in Level 2 are calculated using quoted market prices for similar assets in markets that are not active. The following table describes the valuation technique used to calculate fair values for assets in Level 3. Annually, management determines if the current valuation techniques used in the fair value measurements are still appropriate and evaluates and adjusts the unobservable inputs used in the fair value measurements based on third-party information. There were no changes in the valuation techniques during the current year.

| <u>December 31, 2021</u> | <u>Fair Value</u> | <u>Valuation<br/>Technique</u> | <u>Unobservable Inputs</u> |
|--------------------------|-------------------|--------------------------------|----------------------------|
| Limited Partnerships     | \$ 79,213,149     | Basis in LLC                   | Undistributed Income       |
| Real Estate Partnerships | \$ 54,001,917     | Basis in LLC                   | Undistributed Income       |

  

| <u>December 31, 2020</u> | <u>Fair Value</u> | <u>Valuation<br/>Technique</u> | <u>Unobservable Inputs</u> |
|--------------------------|-------------------|--------------------------------|----------------------------|
| Limited Partnerships     | \$ 62,928,944     | Basis in LLC                   | Undistributed Income       |
| Real Estate Partnerships | \$ 46,928,887     | Basis in LLC                   | Undistributed Income       |

The significant unobservable inputs used in the fair value measurement of the System's investments in limited partnerships are the original cost of the investment in the partnership plus the cumulative net income of the partnership through the end of the most recent fiscal year. Significant increases or decreases in the partnership's cumulative net income as of December 31, 2021 and 2020 could result in a significantly higher or lower fair value measurement.



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**5. Risks and Uncertainties**

**Custodial Credit Risk**

Financial instruments that potentially subject the System to concentrations of custodial credit and market risk consist principally of cash and investments. The System places its temporary cash investments with major financial institutions. At December 31, 2021, the System had approximately \$10,299,000 in cash on deposit at US Bank. These balances were insured by the Federal Deposit Insurance Corporation ("FDIC") for \$250,000. The remaining balances are collateralized by US Bank's assets held jointly in the name of US Bank, N.A. and the System, held by the Federal Home Loan Bank of Cincinnati as Trustee. Regulations require that government entities, in case of bank failure, have collateral to cover losses that could exceed the FDIC limit of \$250,000. The fair value of the collateralized securities at December 31, 2021 was \$11,000,000. A significant portion of the System's investments are held in trust by US Bank of St. Louis, N.A.

On December 30, 2021 and 2020, the System received \$29,216,318 and \$30,001,793, respectively, from the St. Louis Board of Education for the 2021 and 2020 St. Louis Public Schools' annual regular pension contribution and sick leave conversion contribution and held it in a cash equivalents account until investment allocations were implemented.

The System invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such change could materially affect the amounts reported in the accompanying statements of fiduciary net position.

**Concentration of Credit Risk**

At December 31, 2021 and 2020, the System had the following concentrations, defined as investments (other than those issued or guaranteed by the U.S. Government) in any one organization that represent 5% or more of net position held in trust for pension benefits.

|                                   | 2021          |                                  |
|-----------------------------------|---------------|----------------------------------|
| Investments                       | Fair Value    | Percentage of Total Net Position |
| UBS Realty Investors, LLC         | \$ 54,001,917 | 5.6%                             |
| Causeway                          | \$ 51,663,366 | 5.3%                             |
| Fidelity Institutional Asset Mgmt | \$ 60,688,510 | 6.2%                             |
| Edgar Lomax Company               | \$ 73,418,532 | 7.6%                             |

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| 2020                              |               |                                     |
|-----------------------------------|---------------|-------------------------------------|
| Investments                       | Fair Value    | Percentage of Total<br>Net Position |
| UBS Realty Investors, LLC         | \$ 46,928,887 | 5.1%                                |
| Causeway                          | \$ 47,066,559 | 5.1%                                |
| Fidelity Institutional Asset Mgmt | \$ 54,625,376 | 6.0%                                |
| Mellon Capital Management         | \$ 49,995,547 | 5.5%                                |
| Loomis Strategic Alpha            | \$ 47,254,584 | 5.2%                                |
| Edgar Lomax Company               | \$ 65,464,656 | 7.2%                                |

**Credit Risk of Debt Securities**

The System's debt investments as of December 31, 2021 were rated by Moody's Investor Services ("Moody's") and the ratings are presented using the Moody's rating scale. The System's policy to limit credit risk is that the overall average quality of each high-grade domestic fixed income portfolio shall be AA or better and the average quality rating of securities held in a domestic high-yield portfolio shall be B or better. The overall average quality of each global fixed income portfolio shall be A or better. Non-rated issues are allowed as long as the quality is sufficient to maintain the overall average rating noted.

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As of December 31, 2021, the System held the following fixed income investments with respective Moody's quality ratings or equivalent rating. Obligations of the U.S. Government or obligations explicitly guaranteed by the U.S. Government are not considered to have credit risk. Foreign investments not considered to have credit risk such as stocks and cash equivalents are not included in the following:

| Quality<br>Rating | Corporate<br>bonds   | Foreign<br>government<br>and corporate<br>obligations | U.S. Government<br>and agency<br>issues | Total                |
|-------------------|----------------------|---|---|----------------------|
| Aaa               | \$ 3,175,002         | \$ 209,655  | \$ 15,345,754                           | \$ 18,730,411        |
| Aa1               | 19,416               | -   | -                                       | 19,416               |
| Aa2               | 147,017              | -   | -                                       | 147,017              |
| Aa3               | 343,631              | -   | 459,424                                 | 803,055              |
| A1                | 868,381              | -   | -                                       | 868,381              |
| A2                | 1,300,314            | -   | -                                       | 1,300,314            |
| A3                | 790,829              | -   | 139,376                                 | 930,205              |
| Baa1              | 1,267,648            | 76,755  | 52,107                                  | 1,396,510            |
| Baa2              | 2,401,794            | -   | -                                       | 2,401,794            |
| Baa3              | 4,479,614            | 325,109   | -                                       | 4,804,723            |
| Ba1               | 912,070              | 216,916   | -                                       | 1,128,986            |
| Ba2               | 648,559              | 41,276  | -                                       | 689,835              |
| Ba3               | 702,823              | 147,929   | -                                       | 850,752              |
| B1                | 443,801              | 43,453  | -                                       | 487,254              |
| B2                | 177,584              | 87,448  | -                                       | 265,032              |
| B3                | 516,455              | 41,566  | -                                       | 558,021              |
| Caa1              | 74,324               | -   | -                                       | 74,324               |
| Caa2              | 24,803               | -   | -                                       | 24,803               |
| Caa3              | -                    | 8,720   | -                                       | 8,720                |
| Ca                | 38,534               | -   | -                                       | 38,534               |
| Not rated         | <u>14,496,278</u>    | <u>2,139,245</u>                                      | <u>12,803,437</u>                       | <u>29,438,960</u>    |
| Total             | <u>\$ 32,828,877</u> | <u>\$ 3,338,072</u>                                   | <u>\$ 28,800,098</u>                    | <u>\$ 64,967,047</u> |

**Public School Retirement System of the City of St. Louis**  
**Notes to Financial Statements**  
**December 31, 2021 and 2020**

As of December 31, 2020, the System held the following fixed income investments with respective Moody's quality ratings or equivalent rating.

| Quality<br>Rating | Corporate<br>bonds   | Foreign<br>Government<br>and corporate<br>obligations | U.S. Government<br>and agency<br>issues | Total                |
|-------------------|----------------------|---|---|----------------------|
| Aaa               | \$ 1,126,281         | \$ 117,192  | \$ 12,544,595                           | \$ 13,788,068        |
| Aa1               | 18,929               | -   | -                                       | 18,929               |
| Aa2               | 163,127              | -   | -                                       | 163,127              |
| Aa3               | 413,095              | -   | 478,749                                 | 891,844              |
| A1                | 519,926              | -   | -                                       | 519,926              |
| A2                | 1,568,649            | -   | -                                       | 1,568,649            |
| A3                | 1,188,872            | -   | 130,764                                 | 1,319,636            |
| Baa1              | 1,890,987            | 37,797  | 49,409                                  | 1,978,193            |
| Baa2              | 2,492,504            | 187,787   | -                                       | 2,680,291            |
| Baa3              | 5,475,883            | 357,843   | -                                       | 5,833,726            |
| Ba1               | 866,736              | 454,276   | -                                       | 1,321,012            |
| Ba2               | 504,167              | 317,542   | -                                       | 821,709              |
| Ba3               | 829,237              | 66,795  | -                                       | 896,032              |
| B1                | 465,636              | 36,625  | -                                       | 502,261              |
| B2                | 172,338              | 65,893  | -                                       | 238,231              |
| B3                | 499,503              | 73,353  | -                                       | 572,856              |
| Caa1              | 157,403              | -   | -                                       | 157,403              |
| Caa2              | 48,559               | 13,597  | -                                       | 62,156               |
| Ca                | 14,320               | -   | -                                       | 14,320               |
| Not rated         | <u>10,209,141</u>    | <u>2,349,316</u>                                      | <u>17,338,073</u>                       | <u>29,896,530</u>    |
| Total             | <u>\$ 28,625,293</u> | <u>\$ 4,078,016</u>                                   | <u>\$ 30,541,590</u>                    | <u>\$ 63,244,899</u> |

**Public School Retirement System of the City of St. Louis**  
**Notes to Financial Statements**  
**December 31, 2021 and 2020**

**Foreign Currency Risk**

Foreign currency risk is the risk that changes in exchange rates will adversely impact the fair value of an investment. The System does not have a formal policy to limit foreign currency risk. The System's exposure to foreign currency risk in U.S. Dollars as of December 31, 2021 is as follows:

| Currency               | Cash<br>Equivalents | Equities             | Total             |
|------------------------|---------------------|----------------------|-------------------|
| British Pound Sterling | \$ 1                | \$ 17,023,264        | \$ 17,023,265     |
| Canadian Dollar        | 6                   | 2,042,721            | 2,042,727         |
| Danish Krone           | -                   | 344,448              | 344,448           |
| Euro                   | -                   | 29,475,939           | 29,475,939        |
| Hong Kong Dollar       | -                   | 1,962,650            | 1,962,650         |
| Japanese Yen           | -                   | 6,397,970            | 6,397,970         |
| Korean Won             | -                   | 2,666,924            | 2,666,924         |
| Mexican Peso           | -                   | 193,443              | 193,443           |
| Swedish Krona          | -                   | 1,106,422            | 1,106,422         |
| Swiss Franc            | -                   | 8,852,379            | 8,852,379         |
|                        | <u>\$ 7</u>         | <u>\$ 70,066,160</u> | <u>70,066,167</u> |

|  |                      |
|--|----------------------|
| Foreign investment denominated in U.S. Dollars | <u>24,170,619</u>    |
|  | <u>\$ 94,236,786</u> |

The System's exposure to foreign currency risk in U.S. Dollars as of December 31, 2020 is as follows:

| Currency               | Cash<br>Equivalents | Equities             | Total             |
|------------------------|---------------------|----------------------|-------------------|
| Australian Dollar      | \$ -                | \$ 358,803           | \$ 358,803        |
| British Pound Sterling | 1                   | 12,426,518           | 12,426,519        |
| Canadian Dollar        | 344                 | 1,821,242            | 1,821,586         |
| Danish Krone           | -                   | 164,601              | 164,601           |
| Euro                   | -                   | 30,644,215           | 30,644,215        |
| Hong Kong Dollar       | -                   | 1,722,172            | 1,722,172         |
| Japanese Yen           | -                   | 7,292,362            | 7,292,362         |
| Korean Won             | -                   | 2,772,088            | 2,772,088         |
| Mexican Peso           | -                   | 292,189              | 292,189           |
| Swedish Krona          | -                   | 526,614              | 526,614           |
| Swiss Franc            | -                   | 8,386,047            | 8,386,047         |
|                        | <u>\$ 345</u>       | <u>\$ 66,406,851</u> | <u>66,407,196</u> |

|  |                      |
|--|----------------------|
| Foreign investment denominated in U.S. Dollars | <u>24,818,795</u>    |
|  | <u>\$ 91,225,991</u> |

**Public School Retirement System of the City of St. Louis**  
**Notes to Financial Statements**  
**December 31, 2021 and 2020**

**Interest Rate Risk**

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. The System's fixed income investments are managed in accordance with policies established by the Board that are specific as to the degree of interest rate risk that can be taken. The System's policies established by the Board manage the interest rate risk within the portfolio using various methods, including effective duration, option adjusted duration, average maturity, and segmented time distribution, which reflects total fair value of investments maturing during a given time period. The System does not have a specific investment policy on interest rate risk. However, domestic bond managers are limited to seven years average duration and global bond managers cannot differ from the passive benchmark by more than two years as a means of managing its exposure to fair value losses arising from increasing interest rates.

The segmented time distribution of the various investment types of the System's debt securities at December 31, 2021 is as follows:

| Type   | 2021 Fair Value      | Less than 1 year  | 1 to 5 years         | 6 to 10 years        | More than 10 years   |
|--|----------------------|-------------------|----------------------|----------------------|----------------------|
| Corporate bonds                              | \$ 32,828,877        | \$ 165,965        | \$ 9,318,485         | \$ 9,115,759         | \$ 14,228,668        |
| Foreign government and corporate obligations | 3,338,072            | -                 | 884,565              | 800,698              | 1,652,809            |
| U.S. Government and agency issues            | <u>28,800,098</u>    | <u>5,253</u>      | <u>5,666,918</u>     | <u>4,323,844</u>     | <u>18,804,083</u>    |
| Total  | <u>\$ 64,967,047</u> | <u>\$ 171,218</u> | <u>\$ 15,869,968</u> | <u>\$ 14,240,301</u> | <u>\$ 34,685,560</u> |

The segmented time distribution of the various investment types of the System's debt securities at December 31, 2020 is as follows:

| Type   | 2020 Fair Value      | Less than 1 year | 1 to 5 years         | 6 to 10 years        | More than 10 years   |
|--|----------------------|------------------|----------------------|----------------------|----------------------|
| Corporate bonds                              | \$ 28,625,293        | \$ 37            | \$ 6,470,855         | \$ 10,261,399        | \$ 11,893,002        |
| Foreign government and corporate obligations | 4,078,016            | -                | 1,050,795            | 2,185,110            | 842,110              |
| U.S. Government and agency issues            | <u>30,541,590</u>    | <u>3,461</u>     | <u>5,282,730</u>     | <u>3,768,892</u>     | <u>21,486,509</u>    |
| Total  | <u>\$ 63,244,899</u> | <u>\$ 3,498</u>  | <u>\$ 12,804,380</u> | <u>\$ 16,215,401</u> | <u>\$ 34,221,621</u> |

**Public School Retirement System of the City of St. Louis**  
**Notes to Financial Statements**  
**December 31, 2021 and 2020**

**6. Property and Building**

Property and building as of December 31, consists of:

|                               | <u>2021</u>         | <u>2020</u>         |
|-------------------------------|---------------------|---------------------|
| Land                          | \$ 229,451          | \$ 229,451          |
| Building                      | 2,065,061           | 2,065,061           |
| Tenant improvements           | <u>158,120</u>      | <u>158,120</u>      |
|                               | 2,452,632           | 2,452,632           |
| Less accumulated depreciation | <u>932,517</u>      | <u>880,890</u>      |
| Property and Building, net    | <u>\$ 1,520,115</u> | <u>\$ 1,571,742</u> |

Depreciation expense totaled \$51,627 and \$51,626 for the years ended December 31, 2021 and 2020, respectively.

**7. Occupancy**

The System occupies offices in a building it owns. Occupancy expenses for the years ended December 31, 2021 and 2020 were \$51,926 and \$39,142, respectively.

The System leases a portion of its building to an unrelated party. The current lease agreement extends the term to May 2022 with an annual rent of \$173,595. Rental income received for the years ended December 31, 2021 and 2020 totaled \$170,397 and \$164,877, respectively.

**8. Tax Status of Plan**

The Internal Revenue Service has determined and informed the System by a letter dated December 15, 2016, that the System and related trust and amendments are designed in accordance with the applicable sections of the Internal Revenue Code ("IRC"). Management believes that the System is designed and is currently being operated in compliance with the applicable requirements of the IRC and therefore believes that the System is qualified and the related trust is tax-exempt.

**Public School Retirement System of the City of St. Louis**  
**Notes to Financial Statements**  
**December 31, 2021 and 2020**

**9. Retirement Plan of the System**

**Pension Liabilities, Pension Expense, Deferred Outflows and Deferred Inflows of Resources Related to Pensions**

At December 31, 2021 and 2020, the System reported a liability of \$688,612 and \$1,051,687, respectively, as its proportionate share of the net pension liability. The net pension liability was measured as of December 31, 2020 and 2019, respectively, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date.

The System's proportionate share of the net pension liability was based on the System's actual employer's compensation relative to the actual compensation of all participating employers for the System's plan years ended December 31, 2020 and 2019. At December 31, 2020 and 2019, the System's portion was 0.19% and 0.21%, respectively.

For the year ended December 31, 2021, the System recognized pension expense of \$13,612 consisting of the current year contribution, pension liability adjustment, and amortization of deferred outflows and inflows of resources. At December 31, 2021, the System reported deferred outflows and inflows of resources related to pensions from the following sources:

|   | <u>Deferred<br/>Outflows of<br/>Resources</u> | <u>Deferred<br/>Inflows of<br/>Resources</u> |
|---|---|--|
| Difference between expected and actual experience   | \$ 4,917                                      | \$ 9,076                                     |
| Changes in assumptions  | -   | 352,146                                      |
| Net difference between projected and actual earnings on pension plan investments                              | 82,062  | 119,378                                      |
| Changes in proportion and differences between employer contributions and proportionate share of contributions | 47,316  | 126,059                                      |
| System contributions subsequent to the measurement date of December 31, 2020                                  | <u>80,206</u>                                 | <u>-</u>                                     |
| Total   | <u>\$ 214,501</u>                             | <u>\$ 606,659</u>                            |



**Public School Retirement System of the City of St. Louis**  
**Notes to Financial Statements**  
**December 31, 2021 and 2020**

For the year ended December 31, 2020, the System recognized pension expense of \$150,372 consisting of the current year contribution, pension liability adjustment, and amortization of deferred outflows and inflows of resources. At December 31, 2020, the System reported deferred outflows and inflows of resources related to pensions from the following sources:

|   | <u>Deferred<br/>Outflows of<br/>Resources</u> | <u>Deferred<br/>Inflows of<br/>Resources</u> |
|---|---|--|
| Difference between expected and actual experience   | \$ -  | \$ 25,912                                    |
| Changes in assumptions  | 176,050                                       | 609,061                                      |
| Net difference between projected and actual earnings on pension plan investments                              | 146,373                                       | 167,888                                      |
| Changes in proportion and differences between employer contributions and proportionate share of contributions | 83,586  | 70,761                                       |
| System contributions subsequent to the measurement date of December 31, 2019                                  | <u>74,309</u>                                 | <u>-</u>                                     |
| Total   | <u>\$ 480,318</u>                             | <u>\$ 873,622</u>                            |

The System's total pension liability in the December 31, 2020 and 2019 actuarial valuation was determined using the actuarial assumptions disclosed in Note 12.

Deferred outflows of resources of \$80,206 resulting from the System's contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ended December 31, 2022. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense in the System's year ending December 31 as follows:

| <u>Year</u> | <u>Amount</u>       |
|-------------|---------------------|
| 2022        | \$ (270,525)        |
| 2023        | (165,575)           |
| 2024        | (31,723)            |
| 2025        | <u>(4,541)</u>      |
| Total       | <u>\$ (472,364)</u> |

### **Discount Rate**

The discount rate used to measure the total pension liability was 7.50 percent for each of the years ended December 31, 2021 and 2020. The projection of cash flows used to determine the discount rate assumed that System contributions will continue to follow the funding policy established prior to the year ended December 31, 2021. Based on those assumptions, the System's contributions will continue to follow the current funding policy.

**Public School Retirement System of the City of St. Louis**  
**Notes to Financial Statements**  
**December 31, 2021 and 2020**

**Sensitivity of the System's proportionate share of the net pension liability to changes in the discount rate**

The following presents the System's proportionate share of the net pension liability calculated using the discount rate of 7.50 percent for each of the years ended December 31, 2021 and 2020, as well as what the System's proportionate share of the net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower or 1-percentage-point higher than the current rate:

| System's proportionate share<br>of the net pension liability for<br>the year ended December 31, | 1% Decrease<br>(6.50%) | Current Discount<br>Rate<br>(7.50%) | 1% Increase<br>(8.50%) |
|---|------------------------|-------------------------------------|------------------------|
| 2021  | \$ 924,557             | \$ 688,612                          | \$ 492,888             |
| System's proportionate share<br>of the net pension liability for<br>the year ended December 31, | 1% Decrease<br>(6.50%) | Current Discount<br>Rate<br>(7.50%) | 1% Increase<br>(8.50%) |
| 2020  | \$ 1,052,633           | \$ 1,051,687                        | \$ 574,085             |

**10. Annual Money-Weighted Rate of Return**

The annual money-weighted rate of return was 6.13 percent and 8.90 percent for the years ended December 31, 2021 and 2020, respectively. The annual money-weighted rate of return expresses investment performance, net of investment expense, and adjusted for the changing amounts actually invested.

**11. Funding Status**

The funded status as of January 1, which is the most recent actuarial date is as follows:

|                                   | 2021             | 2020             |
|-----------------------------------|------------------|------------------|
| Actuarial value of assets         | \$ 894,251,149   | \$ 888,759,194   |
| Actuarial accrual liability (AAL) | \$ 1,136,451,964 | \$ 1,130,608,343 |
| Unfunded AAL (UAAL)               | \$ 242,200,815   | \$ 241,849,149   |
| Funded ratio                      | 78.7 %           | 78.6 %           |
| Annual covered payroll            | \$ 264,676,845   | \$ 272,973,377   |
| UAAL as a percentage of payroll   | 91.5 %           | 88.6 %           |

The funded ratio increased 0.1% from the previous year. The schedule of funding progress, presented as required supplementary information following the notes to the financial statements, presents similar information but uses a multi-year format to show trend information. These trends indicate whether the actuarial value of plan assets are increasing or decreasing over time relative to the actuarial accrued liability for benefits. The trend information was obtained from the annual valuation report of the independent actuary retained by the System.

**Public School Retirement System of the City of St. Louis**  
**Notes to Financial Statements**  
**December 31, 2021 and 2020**

Additional information regarding assumptions used in the actuarial valuation is as follows:

|   | <u>January 1, 2021</u>   | <u>January 1, 2020</u>   |
|---|--|--|
| Actuarial cost method                             | Frozen entry age   | Frozen entry age   |
| Rate of investment return                         | 7.50%, net of expenses   | 7.50%, net of expenses   |
| Participant account interest crediting rate       | 5.00%  | 5.00%  |
| Turnover or withdrawal rates                      | Various by age and year of membership based on actual experience   | Various by age and year of membership based on actual experience   |
| Mortality and death rates                         | a) RP-2014 Combined Healthy Mortality table (rolled back to 2006) for active Members, and deferred vested Members, projected fully generationally using projection scale MP-2015.<br>b) RP-2014 Combined Healthy Mortality Table (rolled back to 2006) for Inactive (In Receipt) Members adjusted by an additional 10% to account for the higher mortality experienced by the Plan, projected fully generationally using projection scale MP-2015. | a) RP-2014 Combined Healthy Mortality table (rolled back to 2006) for active Members, and deferred vested Members, projected fully generationally using projection scale MP-2015.<br>b) RP-2014 Combined Healthy Mortality Table (rolled back to 2006) for Inactive (In Receipt) Members adjusted by an additional 10% to account for the higher mortality experienced by the Plan, projected fully generationally using projection scale MP-2015. |
| Disability rates                                  | RP-2014 Disability Mortality Table (rolled back to 2006), projected fully generationally using projection scale MP-2015  | RP-2014 Disability Mortality Table (rolled back to 2006), projected fully generationally using projection scale MP-2015  |
| Rates of retirement between the ages of 55 and 70 | Various based on actual experience of the System   | Various based on actual experience of the System   |
| Rate of salary increases                          | Salaries are assumed to increase at the rate of 5.0% per year for the first 5 years of employment and at the rate of 3.5% per year thereafter  | Salaries are assumed to increase at the rate of 5.0% per year for the first 5 years of employment and at the rate of 3.5% per year thereafter  |
| Asset valuation method                            | The assumed yield method of valuing assets   | The assumed yield method of valuing assets   |

**Public School Retirement System of the City of St. Louis**  
**Notes to Financial Statements**  
**December 31, 2021 and 2020**

**12. Employers' Net Pension Liability**

The components of the net pension liability (the retirement system's liability determined in accordance with GASB Statement No. 67 less the fiduciary net position) as of December 31, 2021, are shown in the *Schedule of Net Pension Liability* below.

Actuarial valuation of an ongoing plan involves estimates of the reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment mortality and future salary increases. Amounts determined regarding the net pension liability are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. The last experience study was performed in 2021. The net pension liability as of December 31, 2021 and 2020 is \$296,612,468 and \$363,687,113, respectively, based on actuarial valuations. The 2021 valuation was performed as of June 2020, with a measurement date of January 1, 2021, rolled forward and updated to December 31, 2021 using generally accepted actuarial procedures. The 2020 valuation was performed as of June 2019, with a measurement date of January 1, 2020, rolled forward and updated to December 31, 2020 using generally accepted actuarial procedures.

**Schedule of Net Pension Liability**

The components of the net pension liability of all participating employers at December 31, 2021 and 2020, are as follows:

|  | <u>2020</u>           | <u>2019</u>           |
|--|-----------------------|-----------------------|
| Total pension liability                                      | \$ 1,269,440,124      | \$ 1,278,464,067      |
| Less: Fiduciary net position                                 | <u>972,827,656</u>    | <u>914,776,954</u>    |
| Employers' net pension liability                             | <u>\$ 296,612,468</u> | <u>\$ 363,687,113</u> |
| Plan net position as a percentage of total pension liability | 76.63 %               | 71.55 %               |

**Sensitivity of Net Pension Eligibility to Changes in the Discount Rate**

The following presents the net pension liability at December 31, 2021, calculated using the discount rate of 7.00 percent, as well as what the net pension liability would have been if it were calculated using a discount rate that is 1-percentage point lower or 1-percentage-point higher than the current rate:

|                              | <u>1% Decrease<br/>(6.00%)</u> | <u>Current Discount<br/>Rate (7.00%)</u> | <u>1% Increase<br/>(8.00%)</u> |
|------------------------------|--------------------------------|--|--------------------------------|
| Net pension liability - 2021 | \$ 420,110,630                 | \$ 296,612,468                           | \$ 192,027,293                 |

**Public School Retirement System of the City of St. Louis**  
**Notes to Financial Statements**  
**December 31, 2021 and 2020**

The following presents the net pension liability at December 31, 2020, calculated using the discount rate of 7.50 percent, as well as what the net pension liability would have been if it were calculated using a discount rate that is 1-percentage point lower or 1-percentage-point higher than the current rate:

|                              | 1% Decrease<br>(6.50%) | Current Discount<br>Rate (7.50%) | 1% Increase<br>(8.50%) |
|------------------------------|------------------------|----------------------------------|------------------------|
| Net pension liability - 2020 | \$ 486,608,990         | \$ 363,687,113                   | \$ 259,414,662         |

The projection of cash flows used to determine the discount rate assumed that System contributions will continue to follow the current funding policy. Based on those assumptions, the System's contributions will continue to follow the current funding policy.

Under GASB Statement No. 68, employers participating in the plan would recognize a proportionate share of total pension expense of (\$97,039,617) and \$7,188,133 for their fiscal years beginning after June 15, 2021 and 2020, respectively.

**Public School Retirement System of the City of St. Louis**  
**Required Supplementary Information**  
**Schedules of Changes of Employer Net Pension Liability**  
**For The Years Ended December 31,**

|  | 2021                    | 2020                    | 2019                    | 2018                    | 2017                    | 2016                    | 2015                    | 2014                    |
|--|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Total pension liability  |                         |                         |                         |                         |                         |                         |                         |                         |
| Service cost   | \$ 21,761,352           | \$ 23,374,806           | \$ 40,762,465           | \$ 41,332,913           | \$ 19,950,269           | \$ 19,260,511           | \$ 19,136,245           | \$ 18,728,870           |
| Interest   | 93,253,627              | 92,951,028              | 78,546,085              | 79,257,906              | 92,276,865              | 92,358,115              | 93,242,628              | 93,305,719              |
| Changes of benefit terms   | -                       | -                       | -                       | -                       | 18,979,978              | -                       | -                       | -                       |
| Difference between expected and actual experience                          | (22,232,218)            | 3,525,167               | (631,432)               | (21,350,805)            | (8,215,370)             | 6,392,416               | (10,065,347)            | -                       |
| Changes of assumptions   | 11,880,738              | -                       | (392,633,162)           | -                       | 397,218,720             | 70,532,232              | -                       | -                       |
| Benefit payments   | (113,687,442)           | (112,681,273)           | (113,101,170)           | (114,010,652)           | (112,950,471)           | (113,608,409)           | (113,384,329)           | (113,082,656)           |
| Net change in total pension liability                                      | (9,023,943)             | 7,169,728               | (387,057,214)           | (14,770,638)            | 407,259,991             | 74,934,865              | (11,070,803)            | (1,048,067)             |
| Total pension liability - beginning  | 1,278,464,067           | 1,271,294,339           | 1,658,351,553           | 1,673,122,191           | 1,265,862,200           | 1,190,927,335           | 1,201,998,138           | 1,203,046,205           |
| Total pension liability - ending   | <u>\$ 1,269,440,124</u> | <u>\$ 1,278,464,067</u> | <u>\$ 1,271,294,339</u> | <u>\$ 1,658,351,553</u> | <u>\$ 1,673,122,191</u> | <u>\$ 1,265,862,200</u> | <u>\$ 1,190,927,335</u> | <u>\$ 1,201,998,138</u> |
| Plan fiduciary net position  |                         |                         |                         |                         |                         |                         |                         |                         |
| Employer contributions   | \$ 41,226,981           | \$ 41,822,334           | \$ 43,902,706           | \$ 48,797,779           | \$ 41,077,344           | \$ 39,519,979           | \$ 40,708,503           | \$ 41,757,458           |
| Employee contributions   | 20,880,189              | 17,607,279              | 17,019,685              | 14,248,567              | 12,591,552              | 12,652,029              | 11,664,711              | 11,887,933              |
| Net investment income  | 111,154,045             | 76,895,738              | 127,614,501             | (41,671,079)            | 124,796,919             | 44,492,088              | (5,342,651)             | 35,000,792              |
| Benefit payments including refunds of employee contributions               | (113,687,442)           | (112,681,273)           | (113,101,170)           | (114,010,652)           | (112,950,471)           | (113,608,409)           | (113,384,329)           | (113,082,656)           |
| Administrative expense   | (1,523,071)             | (1,906,813)             | (1,590,013)             | (1,996,982)             | (1,613,506)             | (1,554,314)             | (1,466,261)             | (1,350,393)             |
| Other  | -                       | (255,913)               | -                       | -                       | -                       | -                       | (431,423)               | -                       |
| Net change in plan fiduciary net position                                  | 58,050,702              | 21,481,352              | 73,845,709              | (94,632,367)            | 63,901,838              | (18,498,627)            | (68,251,450)            | (25,786,866)            |
| Plan fiduciary net position - beginning                                    | 914,776,954             | 893,295,602             | 819,449,893             | 914,082,260             | 850,180,422             | 868,679,049             | 936,930,499             | 962,717,365             |
| Plan fiduciary net position - ending                                       | <u>\$ 972,827,656</u>   | <u>\$ 914,776,954</u>   | <u>\$ 893,295,602</u>   | <u>\$ 819,449,893</u>   | <u>\$ 914,082,260</u>   | <u>\$ 850,180,422</u>   | <u>\$ 868,679,049</u>   | <u>\$ 936,930,499</u>   |
| Net pension liability - ending   | <u>\$ 296,612,468</u>   | <u>\$ 363,687,113</u>   | <u>\$ 377,998,737</u>   | <u>\$ 838,901,660</u>   | <u>\$ 759,039,931</u>   | <u>\$ 415,681,778</u>   | <u>\$ 322,248,286</u>   | <u>\$ 265,067,639</u>   |
| Total pension liability  | \$ 1,269,440,124        | \$ 1,278,464,067        | \$ 1,271,294,339        | \$ 1,658,351,553        | \$ 1,673,122,191        | \$ 1,265,862,200        | \$ 1,190,927,335        | \$ 1,201,998,138        |
| Less: Plan fiduciary net position  | 972,827,656             | 914,776,954             | 893,295,602             | 819,449,893             | 914,082,260             | 850,180,422             | 868,679,049             | 936,930,499             |
| Employer net pension liability   | <u>\$ 296,612,468</u>   | <u>\$ 363,687,113</u>   | <u>\$ 377,998,737</u>   | <u>\$ 838,901,660</u>   | <u>\$ 759,039,931</u>   | <u>\$ 415,681,778</u>   | <u>\$ 322,248,286</u>   | <u>\$ 265,067,639</u>   |
| Plan fiduciary net position as a percentage of the total pension liability | 76.63 %                 | 71.55 %                 | 70.27 %                 | 49.41 %                 | 54.63 %                 | 67.16 %                 | 72.94 %                 | 77.95 %                 |
| Covered payroll  | \$ 264,676,845          | \$ 272,973,377          | \$ 263,772,380          | \$ 265,773,659          | \$ 260,223,066          | \$ 252,127,288          | \$ 245,699,583          | \$ 243,280,015          |
| Employer net pension liability as a percentage of covered payroll          | 112 %                   | 133 %                   | 143 %                   | 316 %                   | 292 %                   | 165 %                   | 131 %                   | 109 %                   |

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

The blended rate was changed from 4.78 percent to 7.50 percent at December 31, 2019.

The blended rate was changed from 7.50 percent to 7.00 percent at December 31, 2021.

**Public School Retirement System of the City of St. Louis**  
**Required Supplementary Information**  
**Schedules of the System's Proportionate Share of the Net Pension Liability**  
**For The Years Ended December 31,**

|  | <u>2021</u> | <u>2020</u>  | <u>2019</u>  | <u>2018</u>  | <u>2017</u> | <u>2016</u> | <u>2015</u> | <u>2014</u>   |
|--|-------------|--------------|--------------|--------------|-------------|-------------|-------------|---------------|
| System's proportion of the net pension liability   | 0.19 %      | 0.21 %       | 0.19 %       | 0.23 %       | 0.21 %      | 0.20 %      | 0.22 %      | 0.22 %        |
| System's proportionate share of the net pension liability  | \$ 688,612  | \$ 1,051,687 | \$ 1,621,273 | \$ 1,727,361 | \$ 876,434  | \$ 649,399  | \$ 570,232  | \$ 517,013    |
| System's covered payroll   | \$ 446,482  | \$ 509,484   | \$ 453,896   | \$ 535,096   | \$ 478,280  | \$ 454,115  | \$ 472,849  | not available |
| System's proportionate share of the net pension liability as a percentage of its covered payroll | 154.20 %    | 206.40 %     | 357.19 %     | 322.81 %     | 183.25 %    | 143.00 %    | 120.59 %    | not available |
| Plan fiduciary net position as a percentage of the total pension liability                       | 71.55 %     | 70.25 %      | 49.41 %      | 54.63 %      | 67.16 %     | 72.94 %     | 77.95 %     | 72.30 %       |

\* The amounts presented for each fiscal year were determined as of December 31 of the previous year.

The goal is to provide a full 10-year history as the information becomes available.

**Public School Retirement System of the City of St. Louis**  
**Required Supplementary Information**  
**Schedules of Annual Money-Weighted Rate of Return on Investments**  
**For The Years Ended December 31,**

The System began tracking the annual money-weighted rate of return during the fiscal year ended December 31, 2014. The annual money-weighted rate of return for future years will appear in the following schedule as they occur. The goal is to provide a full 10-year history as the information becomes available.

| <u>Year Ended December 31,</u>   | <u>2021</u>   | <u>2020</u>   | <u>2019</u>    | <u>2018</u>    | <u>2017</u>    | <u>2016</u>   | <u>2015</u>    | <u>2014</u>   |
|--|---------------|---------------|----------------|----------------|----------------|---------------|----------------|---------------|
| Annual money-weighted rate of return,<br>net of investment expense, adjusted for<br>the changing amounts actually invested | <u>6.13 %</u> | <u>8.90 %</u> | <u>16.83 %</u> | <u>(5.09)%</u> | <u>15.55 %</u> | <u>5.52 %</u> | <u>(1.00)%</u> | <u>3.93 %</u> |



**Public School Retirement System of the City of St. Louis**  
**Required Supplementary Information**  
**Schedules of Employer Contributions**  
**December 31, 2021**

**Board of Education**

| Year Ended<br>December<br>31, | Actuarially<br>Determined<br>Contribution | Contributions<br>Recognized<br>by the Plan | Contributions<br>Deficiency<br>(Excess) | Covered<br>Payroll | Contributions<br>Recognized<br>by the Plan as<br>a Percentage<br>of Covered<br>Payroll |
|-------------------------------|---|--|---|--------------------|--|
| 2012                          | \$ 20,786,075                             | \$ 20,786,075                              | \$ -                                    | \$ 175,009,885     | 11.88 %  |
| 2013                          | 27,962,472                                | 27,962,472                                 | -                                       | 185,606,968        | 15.07 %  |
| 2014                          | 31,555,696                                | 31,555,696                                 | -                                       | 191,273,081        | 16.50 %  |
| 2015                          | 31,072,850                                | 31,072,850                                 | -                                       | 195,853,519        | 15.87 %  |
| 2016                          | 29,007,501                                | 29,007,501                                 | -                                       | 191,534,175        | 15.14 %  |
| 2017                          | 30,459,434                                | 30,459,434                                 | -                                       | 193,647,262        | 15.73 %  |
| 2018                          | 37,376,323                                | 37,376,323                                 | -                                       | 195,723,057        | 19.10 %  |
| 2019                          | 34,715,003                                | 31,344,663                                 | 3,370,340 *                             | 195,904,143        | 16.00 %  |
| 2020                          | 36,133,150                                | 29,884,664                                 | 6,248,486 *                             | 192,817,182        | 15.50 %  |
| 2021                          | 35,274,153                                | 29,106,335                                 | 6,167,818 *                             | 194,042,234        | 15.00 %  |

\*The Board of Education paid the statutory required contribution that was recognized by the System for the year ended December 31, 2021 and 2020

The actuarial determined contribution is determined from the prior year census; therefore the contributions are recognized one year in arrears.

**Retirement System**

| Year Ended<br>December<br>31, | Actuarially<br>Determined<br>Contribution | Contributions<br>Recognized<br>by the Plan | Contributions<br>Deficiency<br>(Excess) | Covered<br>Payroll | Contributions<br>Recognized by<br>the Plan as a<br>Percentage of<br>Covered<br>Payroll |
|-------------------------------|---|--|---|--------------------|--|
| 2012                          | \$ 73,902                                 | \$ 73,902                                  | \$ -                                    | \$ 622,220         | 11.88 %  |
| 2013                          | 91,361                                    | 91,361                                     | -                                       | 606,427            | 15.07 %  |
| 2014                          | 85,590                                    | 85,590                                     | -                                       | 518,799            | 16.50 %  |
| 2015                          | 83,960                                    | 83,960                                     | -                                       | 529,203            | 15.87 %  |
| 2016                          | 79,497                                    | 79,497                                     | -                                       | 524,915            | 15.14 %  |
| 2017                          | 74,644                                    | 74,644                                     | -                                       | 474,551            | 15.73 %  |
| 2018                          | 100,565                                   | 100,565                                    | -                                       | 526,616            | 19.10 %  |
| 2019                          | 98,558                                    | 98,558                                     | -                                       | 556,184            | 17.72 %  |
| 2020                          | 75,452                                    | 74,309                                     | 1,143                                   | 402,634            | 18.46 %  |
| 2021                          | 91,988                                    | 80,206                                     | 11,782                                  | 506,024            | 15.85 %  |

The actuarial determined contribution is determined from the prior year census; therefore the contributions are recognized one year in arrears.

**Public School Retirement System of the City of St. Louis**  
**Required Supplementary Information**  
**Schedules of Employer Contributions**  
**December 31, 2021**

**Charter Schools**

| Year Ended<br>December<br>31, | Actuarially<br>Determined<br>Contribution | Contributions<br>Recognized<br>by the Plan | Contributions<br>Deficiency<br>(Excess)* | Covered<br>Payroll | Contributions<br>Recognized by<br>the Plan as a<br>Percentage of<br>Covered<br>Payroll |
|-------------------------------|---|--|--|--------------------|--|
| 2012                          | \$ 5,068,681                              | \$ 5,533,481                               | \$ (464,800) *                           | \$ 42,676,134      | 12.97 %  |
| 2013                          | 7,313,765                                 | 6,765,907                                  | 547,858 *                                | 48,546,696         | 13.94 %  |
| 2014                          | 5,625,992                                 | 8,527,507                                  | (2,901,515) *                            | 34,101,634         | 25.01 %  |
| 2015                          | 7,440,420                                 | 8,445,676                                  | (1,005,256) *                            | 46,897,293         | 18.01 %  |
| 2016                          | 8,123,754                                 | 9,718,163                                  | (1,594,409) *                            | 53,640,493         | 18.12 %  |
| 2017                          | 9,123,878                                 | 10,130,296                                 | (1,006,418) *                            | 58,005,475         | 17.46 %  |
| 2018                          | 12,216,701                                | 11,018,669                                 | 1,198,032 *                              | 63,973,393         | 17.22 %  |
| 2019                          | 12,282,602                                | 12,267,081                                 | 15,521 *                                 | 69,313,332         | 17.70 %  |
| 2020                          | 13,221,261                                | 11,746,232                                 | 1,475,029 *                              | 70,552,564         | 16.65 %  |
| 2021                          | 14,256,585                                | 11,930,457                                 | 2,326,128 *                              | 78,425,119         | 15.21 %  |

\*Charter Schools report and pay employer contributions in the current year as service is credited.

The actuarial determined contribution is determined from the prior year census; therefore the contributions are recognized one year in arrears.

**Public School Retirement System of the City of St. Louis**  
**Required Supplementary Information**  
**Schedules of Employer Contributions**  
**December 31, 2021**

Employer Contributions

| <u>Year Ended<br/>December 31,</u> | <u>Annual<br/>Required<br/>Contribution</u> | <u>Percent<br/>Contributed</u> |
|------------------------------------|---|--------------------------------|
| 2012                               | \$ 25,928,658                               | 114.0 %                        |
| 2013                               | 35,367,598                                  | 104.7                          |
| 2014                               | 37,267,278                                  | 109.2                          |
| 2015                               | 38,597,230                                  | 102.4                          |
| 2016                               | 37,210,752                                  | 110.4                          |
| 2017                               | 39,657,956                                  | 123.0                          |
| 2018                               | 49,693,589                                  | 88.3                           |
| 2019                               | 42,523,785                                  | 98.4                           |
| 2020                               | 40,946,007                                  | 100.7                          |
| 2021                               | 38,878,143                                  | *                              |

\* To be determined at the end of the year

The information presented in the required supplemental schedules was determined as part of the actuarial valuation prepared by Buck Global, LLC.

**Public School Retirement System of the City of St. Louis**  
**Required Supplementary Information**  
**Schedules of Employer Contributions**  
**December 31, 2021**

Additional information related to the actuarial valuation on the previous page follows:

|  |   |
|--|---|
| Actuarial cost method:                             | Frozen entry age  |
| Rate of investment return:                         | 7.5%, which includes a 2.75% allowance for inflation, net of expenses for 2021 and 2020   |
| Participant account interest crediting rate:       | 5.00% for 2021 and 2020   |
| Turnover or withdrawal rates:                      | Various by age and year of membership based on actual experience  |
| Mortality and death rates:                         | Mortality tables issued by the SOA, the RP-2014 Combined Healthy Table (rolled back to 2006), projected fully generationally using projection scale MP-2015 for the 2021 and 2020 plan years. The mortality assumption for inactive participants receiving benefits is increased by an additional 10% to account for the higher mortality experienced by the Plan for the 2021 and 2020 plan years. |
| Disability rates:                                  | RP-2014 Disabled Mortality Table (rolled back to 2006) projected fully generationally using projection scale MP-2015 for the 2021 and 2020 plan years.  |
| Rates of retirement between the ages of 55 and 70: | Various based on actual experience of the System  |
| Rate of salary increases:                          | Salaries are assumed to increase at the rate of 5.0% per year for the first 5 years of employment and 3.5% thereafter for the 2021 and 2020 plan years.   |
| Asset valuation method:                            | The assumed yield method of valuing assets  |

The UFAAL was originally determined and frozen as of January 1, 1981. Effective January 1, 2006, the UFAAL was re-determined and is being amortized over thirty (30) years.

There were no method or assumption changes made since the prior valuation.

**Public School Retirement System of the City of St. Louis**  
**Required Supplementary Information**  
**Schedule of Funding Progress**  
(in millions)  
**December 31, 2021**

| Actuarial<br>Valuation Date<br>January 1, | Actuarial Value<br>of Assets<br>(a) | Actuarial Accrued<br>Liability (AAL) -<br>Frozen Entry Age<br>(b) | Unfunded<br>AAL (UAAL)<br>(b - a) |
|---|-------------------------------------|---|-----------------------------------|
| 2012                                      | \$ 925.4                            | \$ 1,090.3  | \$ 164.9                          |
| 2013                                      | 914.5                               | 1,085.1   | 170.6                             |
| 2014                                      | 922.9                               | 1,093.4   | 170.5                             |
| 2015                                      | 926.9                               | 1,093.6   | 166.7                             |
| 2016                                      | 915.4                               | 1,077.7   | 162.3                             |
| 2017                                      | 901.1                               | 1,133.6   | 232.5                             |
| 2018                                      | 899.8                               | 1,152.7   | 252.9                             |
| 2019                                      | 886.2                               | 1,129.2   | 243.0                             |
| 2020                                      | 888.8                               | 1,130.6   | 241.8                             |
| 2021                                      | 894.3                               | 1,136.5   | 242.2                             |

  

| Actuarial<br>Valuation Date<br>January 1, | Funded<br>Ratio<br>(a/b) | Annual<br>Covered Payroll<br>(c) | UAAL<br>as a % of<br>Covered Payroll<br>( (b-a) /c) |
|---|--------------------------|----------------------------------|---|
| 2012                                      | 84.9 %                   | \$ 234.8                         | 70.2 %  |
| 2013                                      | 84.3                     | 225.9                            | 75.5  |
| 2014                                      | 84.4                     | 243.3                            | 70.1  |
| 2015                                      | 84.8                     | 245.7                            | 67.8  |
| 2016                                      | 84.9                     | 252.1                            | 64.4  |
| 2017                                      | 79.5                     | 260.2                            | 89.3  |
| 2018                                      | 78.1                     | 265.8                            | 95.2  |
| 2019                                      | 78.5                     | 263.8                            | 92.1  |
| 2020                                      | 78.6                     | 273.0                            | 88.6  |
| 2021                                      | 78.7                     | 264.7                            | 91.5  |

**Public School Retirement System of the City of St. Louis**  
**Other Supplementary Information**  
**Schedules of Operating Expenses**  
**Years Ended December 31, 2021 and 2020**

|   | <u>2021</u>             | <u>2020</u>             |
|---|-------------------------|-------------------------|
| Actuarial services  | \$ 143,339              | \$ 113,300              |
| Accounting and auditing fees                              | 89,336                  | 84,377                  |
| Computer programming and consulting                       | 93,294                  | 97,164                  |
| Conventions, conferences, seminars - Trustees (see below) | 1,600                   | -                       |
| Depreciation expense                                      | 51,627                  | 51,626                  |
| Dues and subscriptions                                    | 8,780                   | 400                     |
| Health insurance consulting                               | 39,843                  | 39,843                  |
| Insurance - group health                                  | 77,271                  | 77,271                  |
| Insurance - casualty and bonding                          | 121,685                 | 97,328                  |
| Legal fees and expenses                                   | 107,665                 | 125,741                 |
| Medical fees  | 400                     | 500                     |
| Miscellaneous expense                                     | 11,413                  | 308,276                 |
| Occupancy expense   | 51,926                  | 39,142                  |
| Office repairs and maintenance                            | 41,061                  | 45,012                  |
| Office supplies and expenses                              | 12,794                  | 10,834                  |
| Payroll taxes   | 37,000                  | 37,898                  |
| Pension expense   | 13,612                  | 150,372                 |
| Postage   | 60,113                  | 56,608                  |
| Printing and publishing                                   | 33,739                  | 32,775                  |
| Salaries - administrative and clerical                    | 483,754                 | 495,394                 |
| Telephone   | 13,639                  | 13,672                  |
| Utilities   | <u>29,180</u>           | <u>29,280</u>           |
| <br>Total Operating Expenses                              | <br><u>\$ 1,523,071</u> | <br><u>\$ 1,906,813</u> |

Trustees' Expenses

The Trustees attended conferences and business meetings in connection with business of the System. The Trustees received no salaries but were allowed expenses relating to their attendance at such events as follows:

|                                   | <u>2021</u>     | <u>2020</u> |
|-----------------------------------|-----------------|-------------|
| Lodging, meals, and miscellaneous | \$ -            | \$ -        |
| Transportation and registration   | <u>1,600</u>    | <u>-</u>    |
| Total Trustees' Expenses          | <u>\$ 1,600</u> | <u>\$ -</u> |

**Public School Retirement System of the City of St. Louis**  
**Other Supplementary Information**  
**Schedules of Investment Expenses**  
**Years Ended December 31, 2021 and 2020**

|   | 2021                    | 2020                    |
|---|-------------------------|-------------------------|
| Investment management fees              |                         |                         |
| Ativo Capital Management                | \$ -                    | \$ 34,106               |
| Arga Investment Management              | -                       | 31,614                  |
| Brown Capital Management                | -                       | 8,627                   |
| Causeway Capital Management             | 307,069                 | 247,746                 |
| Channing Capital Management             | -                       | 5,923                   |
| Chicago Equity Partners                 | -                       | 37,859                  |
| Earnest Partners                        | 30,288                  | 31,378                  |
| Edgar Lomax Company                     | 317,391                 | 221,733                 |
| Entrust Capital Diversified Fund LTD    | 7,832                   | 7,853                   |
| Fidelity Institutional Asset Management | 300,452                 | 248,246                 |
| Invesco Global Performance              | -                       | 242,574                 |
| Intech Investment Management            | 165,103                 | 137,070                 |
| Lazard Asset Management                 | 228,391                 | 211,481                 |
| Loomis Sayles & Company, LP             | 236,578                 | 216,647                 |
| Manulife Asset Management               | 120,539                 | 128,020                 |
| Mellon Capital Management               | 63,728                  | 137,996                 |
| NCM Capital                             | 31,488                  | 36,851                  |
| OFI Global Asset Management             | 308,953                 | 71,356                  |
| Strategic Global                        | -                       | 37,631                  |
| Systematic Financial Management         | 335,560                 | 236,640                 |
| TCW Asset Management Company            | 240,197                 | 207,101                 |
| UBS Realty Investors LLC                | 408,033                 | 407,471                 |
| US Bank Trust                           | 110,060                 | 90,997                  |
| Westfield Capital Management            | 323,714                 | 264,242                 |
| Whitebox Multi-Strategy Fund, L.P.      | 320,923                 | 270,062                 |
| Xponance                                | <u>327,567</u>          | <u>157,546</u>          |
| <br>Total Investment Management Fees    | <br>4,183,866           | <br>3,728,770           |
| <br>NEPC, LLC                           | <br>189,414             | <br>177,215             |
| Banking services                        | <u>42,201</u>           | <u>33,408</u>           |
| <br>Total Investment Expenses           | <br><u>\$ 4,415,481</u> | <br><u>\$ 3,939,393</u> |

**Public School Retirement System of the City of St. Louis**  
**Other Supplementary Information**  
**Schedules of Professional/Consultant Fees**  
**Years Ended December 31, 2021 and 2020**

|                              | <u>2021</u>                  | <u>2020</u>                  |
|------------------------------|------------------------------|------------------------------|
| Actuarial services           | \$ 143,339                   | \$ 113,300                   |
| Accounting and auditing fees | 89,336                       | 84,377                       |
| Building property management | 51,926                       | 39,142                       |
| Health insurance consulting  | 39,843                       | 39,843                       |
| Legal expenses               | 107,665                      | 125,741                      |
| Technology consulting        | <u>93,294</u>                | <u>97,164</u>                |
| <br>Total Fees               | <br><u><u>\$ 525,403</u></u> | <br><u><u>\$ 499,567</u></u> |



**Public School Retirement System of the City of St. Louis**  
**Other Supplementary Information**  
**Schedules of Limited Partnerships**  
**Years Ended December 31, 2021 and 2020**

| Partnership Name  | Style                         | Investments at<br>Fair Value as of<br>December 31,<br>2021 |
|---|-------------------------------|--|
| Asia Alternatives Capital Partners VI, L.P.                 | Private Equity & Private Debt | \$ 652,939   |
| Bain Capital Special Situations Asia II, L.P.               | Private Equity & Private Debt | 455,993  |
| BIG Real Estate Fund I, L.P.                                | Private Equity & Private Debt | 6,121,710  |
| Brightwood Capital Fund IV, L.P.                            | Private Equity & Private Debt | 9,462,082  |
| Crayhill Principal Strategies Fund II, L.P.                 | Private Equity & Private Debt | 1,691,490  |
| ElmTree U.S. Net Lease Fund IV, L.P.                        | Private Equity & Private Debt | 1,621,972  |
| Fort Washington Private Equity Investors IX, L.P.           | Private Equity & Private Debt | 17,177,846   |
| GCM Grosvenor Advance Fund, L.P.                            | Private Equity & Private Debt | 2,739,998  |
| HarbourVest Global Fund, L.P.                               | Private Equity & Private Debt | 376,748  |
| Kayne Anderson Real Estate Partners VI, L.P.                | Private Equity & Private Debt | 502,462  |
| Landmark Equity Partners XIV, L.P.                          | Private Equity & Private Debt | 560,695  |
| Landmark Equity Partners XV, L.P.                           | Private Equity & Private Debt | 4,136,838  |
| Landmark Equity Partners XVI, L.P.                          | Private Equity & Private Debt | 6,774,688  |
| MC Credit Partner, L.P.                                     | Private Equity & Private Debt | 3,405,111  |
| Mesirow Financial Private Equity Partnership Fund III, L.P. | Private Equity & Private Debt | 374,199  |
| Mesirow Financial Private Equity Partnership Fund V, L.P.   | Private Equity & Private Debt | 3,371,881  |
| Monroe Capital Private Credit Fund II L.P.                  | Private Equity & Private Debt | 4,733,066  |
| Monroe Capital Private Credit Fund III L.P.                 | Private Equity & Private Debt | 9,688,702  |
| Pantheon Global Secondary Fund III B, L.P.                  | Private Equity & Private Debt | 217,484  |
| Vista Foundation Fund II, L.P.                              | Private Equity & Private Debt | 5,147,245  |
|   |                               | <u>\$ 79,213,149</u>                                       |

| Partnership Name  | Style                         | Investments at<br>Fair Value as of<br>December 31,<br>2020 |
|---|-------------------------------|--|
| BIG Real Estate Fund I, L.P.                              | Private Equity & Private Debt | \$ 4,959,682   |
| Brightwood Capital Fund IV, L.P.                          | Private Equity & Private Debt | 10,162,948   |
| ElmTree U.S. Net Lease Fund III, L.P.                     | Private Equity & Private Debt | 4,256  |
| Fort Washington Private Equity Investors IX, L.P.         | Private Equity & Private Debt | 11,139,753   |
| Landmark Equity Partners XIV, L.P.                        | Private Equity & Private Debt | 700,472  |
| Landmark Equity Partners XV, L.P.                         | Private Equity & Private Debt | 3,908,372  |
| Landmark Equity Partners XVI, L.P.                        | Private Equity & Private Debt | 7,072,233  |
| MC Credit Partner, L.P.                                   | Private Equity & Private Debt | 1,872,380  |
| Mesirow Financial Private Equity Partnership Fund V, L.P. | Private Equity & Private Debt | 711,111  |
| Monroe Capital Private Credit Fund II L.P.                | Private Equity & Private Debt | 7,681,731  |
| Monroe Capital Private Credit Fund III L.P.               | Private Equity & Private Debt | 9,353,787  |
| Pantheon Global Secondary Fund III B, L.P.                | Private Equity & Private Debt | 280,373  |
| Vista Foundation Fund II, L.P.                            | Private Equity & Private Debt | 5,081,846  |
|   |                               | <u>\$ 62,928,944</u>                                       |

**Public School Retirement System of the City of St. Louis**  
**Other Supplementary Information**  
**Schedules of Annual Required Contribution**  
**December 31, 2021 and 2020**

As determined by the actuary, the annual required contribution is as follows at January 1, 2021:

|  | Board of<br>Education | Retirement<br>System | Charter<br>Schools   | Total                |
|--|-----------------------|----------------------|----------------------|----------------------|
| Normal Cost contribution                           | \$ 12,395,193         | \$ 37,245            | \$ 5,389,246         | \$ 17,821,684        |
| Actuarial accrued liability<br>contribution        | <u>19,083,636</u>     | <u>57,343</u>        | <u>8,297,282</u>     | <u>27,438,261</u>    |
| Annual required<br>contribution (ARC)              | <u>\$ 31,478,829</u>  | <u>\$ 94,588</u>     | <u>\$ 13,686,528</u> | <u>\$ 45,259,945</u> |
| Covered payroll                                    | \$184,085,888         | \$ 553,144           | \$ 80,037,813        | \$264,676,845        |
| ARC as % of covered<br>payroll                     | 17.10 %               | 17.10 %              | 17.10 %              | 17.10 %              |
| Statutory required<br>contribution rate            | 14.50 %               | 14.50 %              | 14.50 %              | 14.50 %              |
| Statutory annual<br>required contribution<br>(ARC) | \$ 26,692,454         | \$ 80,206            | \$ 11,605,483        | \$ 38,378,143        |

The actuarial and statutory determined contribution is determined from the prior year census for the Board of Education and Retirement System; therefore the contributions are recognized one year in arrears.

As determined by the actuary, the annual required contribution is as follows at January 1, 2020:

|  | Board of<br>Education | Retirement<br>System | Charter<br>Schools   | Total                |
|--|-----------------------|----------------------|----------------------|----------------------|
| Normal Cost contribution                           | \$ 16,467,879         | \$ 42,945            | \$ 6,655,744         | \$ 23,166,568        |
| Actuarial accrued liability<br>contribution        | <u>18,806,274</u>     | <u>49,043</u>        | <u>7,600,841</u>     | <u>26,456,158</u>    |
| Annual required<br>contribution (ARC)              | <u>\$ 35,274,153</u>  | <u>\$ 91,988</u>     | <u>\$ 14,256,585</u> | <u>\$ 49,622,726</u> |
| Covered payroll                                    | \$194,042,234         | \$ 506,024           | \$ 78,425,119        | \$ 272,973,377       |
| ARC as % of covered<br>payroll                     | 18.18 %               | 18.18 %              | 18.18 %              | 18.18 %              |
| Statutory required<br>contribution rate            | 15.00 %               | 15.00 %              | 15.00 %              | 15.00 %              |
| Statutory annual<br>required contribution<br>(ARC) | \$ 29,106,335         | \$ 75,904            | \$ 11,763,768        | \$ 40,946,007        |

The actuarial and statutory determined contribution is determined from the prior year census for the Board of Education and Retirement System; therefore the contributions are recognized one year in arrears.

**Public School Retirement System of the City of St. Louis**  
**Other Supplementary Information**  
**Schedule of Actuarial Present Values of Projected Benefit Payments**  
**000's omitted**  
**December 31, 2021**

| Fiscal Year<br>Ending<br>12/31 | Beginning<br>Fiduciary Net<br>Position | Benefit Payments    |                   |                     | Present Value of Benefit<br>Payments |                                 |    | Using a<br>Single<br>Discount<br>Rate of |
|--------------------------------|--|---------------------|-------------------|---------------------|--------------------------------------|---------------------------------|----|--|
|                                |  | Benefit<br>Payments | Funded<br>Portion | Unfunded<br>Portion | Funded<br>Portion at<br>7.00%        | Unfunded<br>Portion at<br>2.25% |    |  |
| 2022                           | \$ 972,828                             | \$ 109,187          | \$ 109,187        | \$ -                | \$ 105,555                           | \$ -                            | \$ | 105,555                                  |
| 2023                           | \$ 986,556                             | \$ 107,895          | \$ 107,895        | \$ -                | \$ 97,482                            | \$ -                            | \$ | 97,482                                   |
| 2024                           | \$ 999,749                             | \$ 106,041          | \$ 106,041        | \$ -                | \$ 89,539                            | \$ -                            | \$ | 89,539                                   |
| 2025                           | \$ 1,013,515                           | \$ 104,437          | \$ 104,437        | \$ -                | \$ 82,416                            | \$ -                            | \$ | 82,416                                   |
| 2026                           | \$ 1,027,994                           | \$ 103,411          | \$ 103,411        | \$ -                | \$ 76,268                            | \$ -                            | \$ | 76,268                                   |
| 2027                           | \$ 1,042,325                           | \$ 102,886          | \$ 102,886        | \$ -                | \$ 65,879                            | \$ -                            | \$ | 65,879                                   |
| 2028                           | \$ 1,056,087                           | \$ 102,268          | \$ 102,268        | \$ -                | \$ 65,879                            | \$ -                            | \$ | 65,879                                   |
| 2029                           | \$ 1,069,450                           | \$ 101,610          | \$ 101,610        | \$ -                | \$ 61,173                            | \$ -                            | \$ | 61,173                                   |
| 2030                           | \$ 1,082,545                           | \$ 100,880          | \$ 100,880        | \$ -                | \$ 56,760                            | \$ -                            | \$ | 56,760                                   |
| 2031                           | \$ 1,095,531                           | \$ 99,979           | \$ 99,979         | \$ -                | \$ 52,573                            | \$ -                            | \$ | 52,573                                   |
| 2032                           | \$ 1,108,649                           | \$ 99,257           | \$ 99,257         | \$ -                | \$ 48,779                            | \$ -                            | \$ | 48,779                                   |
| 2033                           | \$ 1,121,684                           | \$ 98,391           | \$ 98,391         | \$ -                | \$ 45,190                            | \$ -                            | \$ | 45,190                                   |
| 2034                           | \$ 1,134,848                           | \$ 97,395           | \$ 97,395         | \$ -                | \$ 41,806                            | \$ -                            | \$ | 41,806                                   |
| 2035                           | \$ 1,149,862                           | \$ 96,170           | \$ 96,170         | \$ -                | \$ 38,580                            | \$ -                            | \$ | 38,580                                   |
| 2036                           | \$ 1,167,146                           | \$ 94,942           | \$ 94,942         | \$ -                | \$ 35,595                            | \$ -                            | \$ | 35,595                                   |
| 2037                           | \$ 1,186,958                           | \$ 93,645           | \$ 93,645         | \$ -                | \$ 32,812                            | \$ -                            | \$ | 32,812                                   |
| 2038                           | \$ 1,209,626                           | \$ 92,288           | \$ 92,288         | \$ -                | \$ 30,221                            | \$ -                            | \$ | 30,221                                   |
| 2039                           | \$ 1,235,451                           | \$ 90,896           | \$ 90,896         | \$ -                | \$ 27,818                            | \$ -                            | \$ | 27,818                                   |
| 2040                           | \$ 1,264,777                           | \$ 89,682           | \$ 89,682         | \$ -                | \$ 25,651                            | \$ -                            | \$ | 25,651                                   |
| 2041                           | \$ 1,297,681                           | \$ 88,287           | \$ 88,287         | \$ -                | \$ 23,600                            | \$ -                            | \$ | 23,600                                   |
| 2042                           | \$ 1,334,668                           | \$ 86,902           | \$ 86,902         | \$ -                | \$ 21,710                            | \$ -                            | \$ | 21,710                                   |
| 2043                           | \$ 1,376,078                           | \$ 85,544           | \$ 85,544         | \$ -                | \$ 19,973                            | \$ -                            | \$ | 19,973                                   |
| 2044                           | \$ 1,422,235                           | \$ 84,156           | \$ 84,156         | \$ -                | \$ 18,363                            | \$ -                            | \$ | 18,363                                   |
| 2045                           | \$ 1,473,565                           | \$ 82,916           | \$ 82,916         | \$ -                | \$ 16,909                            | \$ -                            | \$ | 16,909                                   |
| 2046                           | \$ 1,530,338                           | \$ 81,547           | \$ 81,547         | \$ -                | \$ 15,542                            | \$ -                            | \$ | 15,542                                   |
| 2047                           | \$ 1,593,121                           | \$ 80,275           | \$ 80,275         | \$ -                | \$ 14,299                            | \$ -                            | \$ | 14,299                                   |
| 2048                           | \$ 1,662,305                           | \$ 78,859           | \$ 78,859         | \$ -                | \$ 13,128                            | \$ -                            | \$ | 13,128                                   |
| 2049                           | \$ 1,738,522                           | \$ 77,627           | \$ 77,627         | \$ -                | \$ 12,077                            | \$ -                            | \$ | 12,077                                   |
| 2050                           | \$ 1,822,140                           | \$ 76,361           | \$ 76,361         | \$ -                | \$ 11,103                            | \$ -                            | \$ | 11,103                                   |
| 2051                           | \$ 1,913,776                           | \$ 74,922           | \$ 74,922         | \$ -                | \$ 10,181                            | \$ -                            | \$ | 10,181                                   |
| 2052                           | \$ 2,014,204                           | \$ 73,197           | \$ 73,197         | \$ -                | \$ 9,296                             | \$ -                            | \$ | 9,296                                    |
| 2053                           | \$ 2,124,394                           | \$ 71,397           | \$ 71,397         | \$ -                | \$ 8,474                             | \$ -                            | \$ | 8,474                                    |
| 2054                           | \$ 2,245,147                           | \$ 69,610           | \$ 69,610         | \$ -                | \$ 7,721                             | \$ -                            | \$ | 7,721                                    |
| 2055                           | \$ 2,377,244                           | \$ 67,565           | \$ 67,565         | \$ -                | \$ 7,004                             | \$ -                            | \$ | 7,004                                    |
| 2056                           | \$ 2,521,774                           | \$ 65,433           | \$ 65,433         | \$ -                | \$ 6,340                             | \$ -                            | \$ | 6,340                                    |
| 2057                           | \$ 2,679,746                           | \$ 63,204           | \$ 63,204         | \$ -                | \$ 5,723                             | \$ -                            | \$ | 5,723                                    |
| 2058                           | \$ 2,852,236                           | \$ 60,837           | \$ 60,837         | \$ -                | \$ 5,148                             | \$ -                            | \$ | 5,148                                    |
| 2059                           | \$ 3,040,437                           | \$ 58,366           | \$ 58,366         | \$ -                | \$ 4,616                             | \$ -                            | \$ | 4,616                                    |
| 2060                           | \$ 3,245,594                           | \$ 55,854           | \$ 55,854         | \$ -                | \$ 4,128                             | \$ -                            | \$ | 4,128                                    |
| 2061                           | \$ 3,468,972                           | \$ 53,359           | \$ 53,359         | \$ -                | \$ 3,686                             | \$ -                            | \$ | 3,686                                    |
| 2062                           | \$ 3,711,864                           | \$ 50,873           | \$ 50,873         | \$ -                | \$ 3,284                             | \$ -                            | \$ | 3,284                                    |
| 2063                           | \$ 3,975,668                           | \$ 48,396           | \$ 48,396         | \$ -                | \$ 2,920                             | \$ -                            | \$ | 2,920                                    |
| 2064                           | \$ 4,261,871                           | \$ 45,934           | \$ 45,934         | \$ -                | \$ 2,590                             | \$ -                            | \$ | 2,590                                    |
| 2065                           | \$ 4,572,054                           | \$ 43,493           | \$ 43,493         | \$ -                | \$ 2,292                             | \$ -                            | \$ | 2,292                                    |
| 2066                           | \$ 4,907,919                           | \$ 41,080           | \$ 41,080         | \$ -                | \$ 2,023                             | \$ -                            | \$ | 2,023                                    |
| 2067                           | \$ 5,271,264                           | \$ 38,697           | \$ 38,697         | \$ -                | \$ 1,781                             | \$ -                            | \$ | 1,781                                    |

**Public School Retirement System of the City of St. Louis**  
**Other Supplementary Information**  
**Schedule of Projection of Fiduciary Net Position**  
**000's omitted**  
**December 31, 2021**

| Year | Projected<br>Beginning<br>Fiduciary Net<br>Position | Projected Total<br>Contributions | Projected<br>Benefit<br>Payments | Projected<br>Investment<br>Earnings | Projected<br>Ending<br>Fiduciary Net<br>Position |
|------|---|----------------------------------|----------------------------------|-------------------------------------|--|
| 2022 | \$ 972,828  | \$ 56,655                        | \$ 109,187                       | \$ 66,259                           | \$ 986,556                                       |
| 2023 | \$ 986,556  | \$ 53,919                        | \$ 107,895                       | \$ 67,170                           | \$ 999,749                                       |
| 2024 | \$ 999,749  | \$ 51,726                        | \$ 106,041                       | \$ 68,081                           | \$ 1,013,515                                     |
| 2025 | \$ 1,013,515  | \$ 49,879                        | \$ 104,437                       | \$ 69,037                           | \$ 1,027,994                                     |
| 2026 | \$ 1,027,994  | \$ 47,731                        | \$ 103,411                       | \$ 70,011                           | \$ 1,042,325                                     |
| 2027 | \$ 1,042,325  | \$ 45,688                        | \$ 102,886                       | \$ 70,961                           | \$ 1,056,087                                     |
| 2028 | \$ 1,056,087  | \$ 43,753                        | \$ 102,268                       | \$ 71,878                           | \$ 1,069,450                                     |
| 2029 | \$ 1,069,450  | \$ 41,933                        | \$ 101,610                       | \$ 72,773                           | \$ 1,082,545                                     |
| 2030 | \$ 1,082,545  | \$ 40,211                        | \$ 100,880                       | \$ 73,655                           | \$ 1,095,531                                     |
| 2031 | \$ 1,095,531  | \$ 38,559                        | \$ 99,979                        | \$ 74,537                           | \$ 1,108,648                                     |
| 2032 | \$ 1,108,648  | \$ 36,871                        | \$ 99,257                        | \$ 75,422                           | \$ 1,121,684                                     |
| 2033 | \$ 1,121,684  | \$ 35,247                        | \$ 98,391                        | \$ 76,308                           | \$ 1,134,848                                     |
| 2034 | \$ 1,134,848  | \$ 35,148                        | \$ 97,395                        | \$ 77,261                           | \$ 1,149,862                                     |
| 2035 | \$ 1,149,862  | \$ 35,101                        | \$ 96,170                        | \$ 78,353                           | \$ 1,167,146                                     |
| 2036 | \$ 1,167,146  | \$ 35,147                        | \$ 94,942                        | \$ 79,607                           | \$ 1,186,958                                     |
| 2037 | \$ 1,186,958  | \$ 35,269                        | \$ 93,645                        | \$ 81,044                           | \$ 1,209,626                                     |
| 2038 | \$ 1,209,626  | \$ 35,429                        | \$ 92,288                        | \$ 82,684                           | \$ 1,235,451                                     |
| 2039 | \$ 1,235,451  | \$ 35,673                        | \$ 90,896                        | \$ 84,549                           | \$ 1,264,777                                     |
| 2040 | \$ 1,264,777  | \$ 35,933                        | \$ 89,682                        | \$ 86,653                           | \$ 1,297,681                                     |
| 2041 | \$ 1,297,681  | \$ 36,259                        | \$ 88,287                        | \$ 89,017                           | \$ 1,334,668                                     |
| 2042 | \$ 1,334,668  | \$ 36,644                        | \$ 86,902                        | \$ 91,668                           | \$ 1,376,078                                     |
| 2043 | \$ 1,376,078  | \$ 37,072                        | \$ 85,544                        | \$ 94,629                           | \$ 1,422,235                                     |
| 2044 | \$ 1,422,235  | \$ 37,559                        | \$ 84,156                        | \$ 97,926                           | \$ 1,473,565                                     |
| 2045 | \$ 1,473,565  | \$ 38,108                        | \$ 82,916                        | \$ 101,581                          | \$ 1,530,338                                     |
| 2046 | \$ 1,530,338  | \$ 38,705                        | \$ 81,547                        | \$ 105,624                          | \$ 1,593,121                                     |
| 2047 | \$ 1,593,121  | \$ 39,372                        | \$ 80,275                        | \$ 110,087                          | \$ 1,662,305                                     |
| 2048 | \$ 1,662,305  | \$ 40,073                        | \$ 78,859                        | \$ 115,004                          | \$ 1,738,522                                     |
| 2049 | \$ 1,738,522  | \$ 40,836                        | \$ 77,627                        | \$ 120,409                          | \$ 1,822,140                                     |
| 2050 | \$ 1,822,140  | \$ 41,661                        | \$ 76,361                        | \$ 126,335                          | \$ 1,913,776                                     |
| 2051 | \$ 1,913,776  | \$ 42,520                        | \$ 74,922                        | \$ 132,830                          | \$ 2,014,204                                     |
| 2052 | \$ 2,014,204  | \$ 43,435                        | \$ 73,197                        | \$ 139,953                          | \$ 2,124,394                                     |
| 2053 | \$ 2,124,394  | \$ 44,388                        | \$ 71,397                        | \$ 147,762                          | \$ 2,245,147                                     |
| 2054 | \$ 2,245,147  | \$ 45,394                        | \$ 69,610                        | \$ 156,313                          | \$ 2,377,244                                     |
| 2055 | \$ 2,377,244  | \$ 46,428                        | \$ 67,565                        | \$ 165,667                          | \$ 2,521,774                                     |
| 2056 | \$ 2,521,774  | \$ 47,509                        | \$ 65,433                        | \$ 175,897                          | \$ 2,679,746                                     |
| 2057 | \$ 2,679,746  | \$ 48,622                        | \$ 63,204                        | \$ 187,072                          | \$ 2,852,236                                     |
| 2058 | \$ 2,852,236  | \$ 49,769                        | \$ 60,837                        | \$ 199,269                          | \$ 3,040,437                                     |
| 2059 | \$ 3,040,437  | \$ 50,951                        | \$ 58,366                        | \$ 212,571                          | \$ 3,245,594                                     |
| 2060 | \$ 3,245,594  | \$ 52,170                        | \$ 55,854                        | \$ 227,063                          | \$ 3,468,972                                     |
| 2061 | \$ 3,468,972  | \$ 53,422                        | \$ 53,359                        | \$ 242,830                          | \$ 3,711,864                                     |
| 2062 | \$ 3,711,864  | \$ 54,712                        | \$ 50,873                        | \$ 259,965                          | \$ 3,975,668                                     |
| 2063 | \$ 3,975,668  | \$ 56,035                        | \$ 48,396                        | \$ 278,564                          | \$ 4,261,871                                     |
| 2064 | \$ 4,261,871  | \$ 57,385                        | \$ 45,934                        | \$ 298,732                          | \$ 4,572,054                                     |
| 2065 | \$ 4,572,054  | \$ 58,779                        | \$ 43,493                        | \$ 320,579                          | \$ 4,907,919                                     |
| 2066 | \$ 4,907,919  | \$ 60,201                        | \$ 41,080                        | \$ 344,224                          | \$ 5,271,264                                     |
| 2067 | \$ 5,271,264  | \$ 61,669                        | \$ 38,697                        | \$ 369,792                          | \$ 5,664,028                                     |