

## STATEMENT OF PURPOSE

## Retirement Security for Illinois Educators

## MISSION STATEMENT

Safeguard benefit security through committed staff, engaged members, and responsible funding. FISCALYEAR HIGHLIGHTS

|  | 2011 | 2010 |
| :---: | :---: | :---: |
| Active contributing members | 166,013 | 170,275 |
| Inactive noncontributing members | 94,820 | 104,222 |
| Benefit recipients* | 101,288 | 97,754 |
| Total membership | 362,121 | 372,251 |
| Actuarial accrued liability (AAL) | \$81,299,745,000 | \$77,293,198,000 |
| Less actuarial value of assets (smoothed assets beginning in 2009) | 37,769,753,000 | 37,439,092,000 |
| Unfunded actuarial accrued liability (UAAL) | \$43,529,992,000 | \$39,854,106,000 |
| Funded ratio (\% of AAL covered by assets, based on smoothed assets) | 46.5\% | 48.4\% |
| Total fund investment return, net of fees | 23.6\% | 12.9\% |
| Expenses Benefits paid | \$4,228,282,978 | \$3,927,838,363 |
| Refunds paid | 76,587,192 | 60,349,779 |
| Administrative expenses | 17,792,071 | 16,950,679 |
| Total expenses | \$4,322,662,241 | \$4,005,138,821 |
| Income |  |  |
| Member contributions | \$909,577,109 | \$899,401,028 |
| Employer contributions | 155,110,133 | 171,420,549 |
| State of Illinois contributions | 2,170,918,489 | 2,080,729,055 |
| Total investment income | 7,234,539,490 | 3,679,642,960 |
| Total income | \$10,470,145,221 | \$6,831,193,592 |

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## Cover photo:

High school math teacher Greg of Pleasant Plains highlights the TRS income of $\$ 10$ billion and expenses of $\$ 4$ billion in fiscal year 2011.


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Pensions paid to Teachers' Retirement System members recirculate throughout the Illinois economy, creating more than 30,000 jobs in every corner of the state with a total payroll of more than $\$ 1.1$ billion. TRS pensions enable thousands of men and women to lead fulfilling and secure lives in retirement.



## LETTER OF TRANSMITTAL

December 19, 2011

To the Board of Trustees and TRS Members:
We are pleased to present the Comprehensive Annual Financial Report (CAFR) for the Teachers' Retirement System of the State of Illinois (TRS) for the fiscal year ended June 30, 2011. The theme of this year's report centers on two main messages that TRS staff emphasizes with our members and their families:

- TRS is a strong and secure retirement fund, and
- our main purpose is to keep retirement promises made by the State of Illinois to educators almost a century ago.

TRS ranks among the country's largest public pension funds with $\$ 37.5$ billion in net assets at the end of fiscal year 2011. TRS is a major institutional investor and a driver of the Illinois economy. With 362,121 members, TRS is a vital and respected leader across the country.

The discipline we bring to our fiduciary duty is a tremendous asset to our members at a time when the national and state economies face many challenges. While the financial resources of TRS and other public pension systems in the State of Illinois are being called into question by some, the data provided in this CAFR shows the truth. The administration of TRS and the management of our members' money are sound. The System experienced recordlevel revenues during 2011. Further, the state made funding its pension obligations a priority when preparing the fiscal year 2012 budget by appropriating the full contribution required by statute.

The General Assembly's obligations regarding funding for public pensions are well established in statute, most recently in 1995. As long as state government, educators and school districts maintain their commitment to TRS, the System will meet its future obligations to its members and its financial stability will be ensured. Through images, statistics and anecdotes, this report will help members and the general public better understand the substantial resources of TRS and the world-wide reach of its extensive and diversified investment portfolio.

The stability and strength of TRS is the foundation of keeping the promise made by the State of Illinois that educators will have a secure retirement. Illinois first granted pensions to retired teachers in 1915. That commitment was reaffirmed in 1939 with the creation of TRS. Since then, in good times and bad, TRS has maintained trusted relationships with generations of educators and has never defaulted on the promises made long ago. Our relationships with our members, in most cases, thrive for many decades.

The state's promise is vital to school teachers in every corner of Illinois. TRS pensions provide our members with a stable income during their golden years that allows them to continue to be productive members of society. Moreover, benefits paid to TRS retirees recycle through the lllinois economy and create an economic impact that is estimated to support more than 30,000 jobs each year and provide an annual economic stimulus in excess of $\$ 4$ billion.

TRS is required by state law to publish an annual report to provide financial, investment, actuarial, and statistical information in a single publication. TRS management and staff are responsible for the accuracy of this report and for ensuring that all material disclosures have been made. A framework of internal controls is maintained
within TRS to establish a reasonable assurance that assets are safeguarded, monetary transactions are accurately executed and financial statements are fairly presented. Management recognizes there are inherent limitations in the effectiveness of any system of internal controls and provides the conclusion that the financial statements are not materially misstated.

## Profile of TRS

TRS was established by the State of Illinois on July 1, 1939, to provide retirement, disability, and death benefits to teachers employed by Illinois public elementary and secondary schools outside the city of Chicago. A 13-member Board of Trustees governs TRS. The Board includes the state superintendent of education, six representatives of the public who are appointed by the governor, four members of TRS who are elected by active teachers, and two retired members who are elected by annuitants. The Board of Trustees appoints the executive director, who is responsible for the effective administration of TRS.

The annual budget for TRS administrative expenses is prepared by staff and approved by the Board of Trustees. The TRS annual operating budget request is prepared in conjunction with a review of the long-range strategic plan.

## Financial Information

Our staff issues a CAFR within six months of the close of each fiscal year. The report contains basic financial statements presented in conformity with generally accepted accounting principles (GAAP) applied within guidelines established by the Governmental Accounting Standards Board (GASB).

A system of internal controls helps us monitor and safeguard assets and promote efficient operations. Each year TRS's financial statements, records, and internal controls are examined by a professional accounting firm who serve as special assistant auditors employed by the Illinois Auditor General. In addition, an annual compliance attestation examination is performed to review compliance with applicable statutes and codes. The Independent Auditors' Report on TRS's financial statements is included in the Financial Section of this report.

Generally accepted accounting principles require that management provide a narrative introduction, overview, and analysis to accompany the basic financial statements in the form of a Management's Discussion and Analysis (MD\&A). This letter of transmittal is designed to complement the MD\&A and should be read in conjunction with it. The MD\&A can be found immediately following the report of the independent auditors.

## Revenues and Expenses

The three sources of TRS funding include member contributions, investment income, and employer contributions through state appropriations and payments by school districts. TRS expenses include payments of benefits, refunds, and administrative expenses. Negative amounts are shown in parentheses () throughout this report.
Revenues (\$ millions)

|  |  | Increase (Decrease) |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Source | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 0}$ | Amount | \% Change |
| Member contributions | $\$ 910$ | $\$ 899$ | $\$ 11$ | $1.2 \%$ |
| State of Illinois | 2,171 | 2,081 | 90 | 4.3 |
| Employer contributions | 154 | 171 | $(17)$ | $(9.9)$ |
| Total investment income | 7,235 | 3,680 | 3,555 | 96.6 |
| Total | $\underline{\$ 10,470}$ | $\underline{\$ 6,831}$ | $\underline{\$ 3,639}$ | $53.3 \%$ |

Expenses (\$ millions)

|  |  | Increase |  |  |
| :--- | ---: | ---: | ---: | :---: |
| Source | 2011 | $\mathbf{2 0 1 0}$ | Amount |  |
| Benefits payments | $\$ 4,228$ | $\$ 3,928$ | $\$ 300$ | $7.6 \%$ |
| Refunds | 77 | 60 | 17 | 28.3 |
| Administrative/Other | 18 | 17 | $\underline{1}$ | 5.9 |
| Total | $\underline{\$ 4,323}$ | $\underline{\$ 4,005}$ | $\underline{\$ 318}$ | $7.9 \%$ |

TRS staff and the Board of Trustees remain vigilant in our efforts to improve the retirement system's funded status for our current and future members. We continue to invest prudently and in a disciplined manner for the benefit of our membership and for the long-term success of the retirement system. The TRS Board and staff believe the overall investment strategy remains sound and appropriate for our circumstances.

## Investments

The TRS investment portfolio had a strong year, returning 24.3 percent, gross of fees, for the fiscal year ended June 30, 2011 . Total TRS investments increased by approximately $\$ 6.3$ billion during the year ended June 30, 2011.

The TRS trust fund is invested by authority of the Illinois Pension Code under the "prudent person rule," requiring investments to be managed solely in the interest of fund participants and beneficiaries. The TRS Investment Policy guides TRS's investments. Investment principles include preserving the long-term principal of the trust fund, maximizing total return within prudent risk parameters, and acting in the exclusive interest of TRS members.

The Investment Section of this report contains a summary of the portfolio and investment activities.

## Funding

During the year ended June 30, 2011, the funded ratio of the Teachers' Retirement System decreased from 48.4 percent to 46.5 percent. The actuarial value of assets at year end was $\$ 37.8$ billion and the actuarial accrued liability was $\$ 81.3$ billion. The decline in the funded ratio was due to an increase in the liability and the continued phase-in of 2009 investment losses in the calculation of the actuarial value of assets. Due to the five-year smoothing methodology required by Public Act 96-0043, the actuarial value of assets now recognizes 60 percent of the 2009 losses, 40 percent of the 2010 gains, and 20 percent of the 2011 gains.

The Actuarial Section of this report contains the actuary's letter and further information on TRS funding.

## Major Initiatives

In FY1 1, TRS implemented several initiatives that benefited its members and strengthened the retirement system by:

- increasing productivity and efficiency by enhancing core information systems;
- implementing necessary changes to information systems for the new second tier of benefits enacted by the Illinois General Assembly;
- providing extensive analysis and data to policymakers and other bodies regarding the impact of various proposals for benefit changes; and
- completing a national search for a new executive director, positioning TRS to move forward under strong and stable leadership.


## GFOA Award

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to TRS for its Comprehensive Annual Financial Report for the fiscal year ended June 30, 2010. The Certificate of Achievement is a prestigious national award recognizing excellence in the preparation of state and local government financial reports.

To be awarded the certificate, a government unit must publish an easily readable and efficiently organized comprehensive annual financial report whose contents meet or exceed program standards. This report must satisfy both generally accepted accounting principles and applicable legal requirements. A Certificate of Achievement is valid for a period of one year only. TRS has received a certificate for the last 22 years. We believe our current report continues to meet the program requirements and are submitting it to the GFOA for consideration again this year.

## Acknowledgements

Information for this report was gathered by and reflects the combined efforts of TRS staff under the leadership of the Board of Trustees and the executive director. It is intended to provide complete and reliable information as a basis for making management decisions, to determine our compliance with legal provisions, and as a means of determining responsible stewardship of the assets contributed by members and their employers.

This report is made available to members of the General Assembly, participating employers, and to other interested persons by request. The participating employers of TRS form a link between TRS and its members. Their cooperation contributes significantly to our success. We hope all recipients of this report find it informfive and useful. This report is also available to the general public on our Web site, http://trs.illinois.gov.

We would like to take this opportunity to express our gratitude to staff, professional consultants, and others who have worked so diligently to ensure TRS's successful operation.


Richard Ingram
Executive Director


Jana Bergschneider, CPA
Director of Administration

BOARD OF TRUSTEES

## As of December 1, 2011



Left to right: Dick Ingram, Executive Director; Cynthia O'Neill; Bob Lyons; Molly Phalen, Vice President; Cinda Klickna; Sharon Leggett; Jan Cleveland; Marcia Campbell; and Michael Busby.
Shown at right: Christopher A. Koch, Ed.D, President; Janice Reedus; and Sonia Walwyn.


Christopher A. Koch, Ed.D.
President


Janice Reedus


Sonia Walwyn

## EXECUTIVE STAFF MEMBERS

As of December 1, 2011


Sally Sherman Director of Member Services

Left to right: Kathy Pearce, Communications Manager; Dick Ingram, Executive Director; Dave Urbanek, Public Information Officer; Gina Larkin, Director of Human Resources; Tom Gray, General Counsel; Jana Bergschneider, CPA, Director of Administration; Stan Rupnik, CFA, Chief Investment Officer; Richard Frankenfeld, Director of Outreach; Kathleen Farney, CEBS, Director of Research; and Stacy Smith, CPA, CIDA, Director of Internal Audit.
Shown at right: Sally Sherman, Director of Member Services.

## ORGANIZATIONAL STRUCTURE

## Executive Staff Members as of December 1, 2011



## CONSULTING AND PROFESSIONAL SERVICES

## Actuary

Buck Consultants, LLC
Chicago, Illinois

## External Auditors

(As special assistants to the Office of the Auditor General)
McGladrey \& Pullen, LLP
Schaumburg, Illinois

## Information Systems

CTG Inc. of Illinois
Springfield, Illinois
Share Point Business Solutions, Inc.
Springfield, Illinois

## Consultants

## Callan Associates Inc.

(real estate)
San Francisco, California
Leinenweber Baroni \& Daffada Consulting LLC (legislative)
Springfield, Illinois
PCG Asset Management LLC
(private equity)
La Jolla, California

## R.V. Kuhns \& Associates, Inc.

(general investment)
Portland, Oregon

## Legal Services

## Cavanagh \& O'Hara

Springfield, Illinois
Holland \& Knight LLP
Chicago, Illinois
Jackson Walker LLP
Austin, Texas
Mayer Brown LLP
Chicago, Illinois
Sorling Northrup Hanna Cullen Cochran Ltd.
Springfield, Illinois

## Master Trustee

State Street Bank and Trust Company Boston, Massachusetts

## Sentinel Technologies

Chicago, Illinois
SunGard Availability Services
Chicago, Illinois

Houlihan Lokey Howard \& Zukin Financial Advisors, Inc. (private equity)
Los Angeles, California

## LP Capital Advisors, LLC

(private equity)
Sacramento, California

## Risk Resources

(real estate insurance consulting)
Elmhurst, Illinois

## Heyl Royster Voelker \& Allen

Springfield, Illinois
Howard \& Howard Attorneys PLLC
Peoria, Illinois
Loewenstein Hagen \& Smith PC
Springfield, Illinois
Morgan Lewis \& Bockius LLP
New York, New York
tired member. The retirement system's financial structure is secure enough to ensure continued pension payments well into the future.

Fiscal Year 2011 Revenue


Fiscal Year 2011 Benefits Paid
Total: \$4,304,870,170


## Photo at right:

The Investment Committee discusses future portfolio commitments during the October 2011 Board meeting held in Springfield.


## McGladrey

# Independent Auditors' Report 

Honorable William G. Holland, Auditor General - State of Illinois

Board of Trustees, Teachers’ Retirement System of the State of Illinois
As Special Assistant Auditors for the Auditor General, we have audited the accompanying Statement of Plan Net Assets of the Teachers' Retirement System of the State of Illinois (System), a component unit of the State of Illinois, as of June 30, 2011, and the related Statement of Changes in Plan Net Assets for the year then ended, as listed in the table of contents. These financial statements are the responsibility of the System's management. Our responsibility is to express an opinion on these financial statements based on our audit. The basic financial statements of the System for the year ended June 30, 2010 were audited by other auditors whose report dated December 20, 2010 expressed an unqualified opinion on those statements.

We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes consideration of internal control over financial reporting as a basis for designing 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 over financial reporting. Accordingly, we express no such opinion. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and the significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the 2011 financial statements referred to above present fairly, in all material respects, the plan net assets of the Teachers' Retirement System of the State of Illinois as of June 30, 2011, and the changes in plan net assets for the year then ended in conformity with accounting principles generally accepted in the United States of America.

The accompanying management's discussion and analysis and the schedules of funding progress and contributions from employers and other contributing entities as listed in the table of contents are not a required part of the basic financial statements but are supplementary information required by accounting principles generally accepted in the United States of America. We have applied certain limited procedures, which consisted principally of inquiries of management regarding the methods of measurement and presentation of the required supplementary information. However, we did not audit the information and express no opinion on it.

Our audit was conducted for the purpose of forming an opinion on the System's basic financial statements. The other supplementary information in the financial section and the accompanying introduction, investments, actuarial and statistical sections, as listed in the table of contents, are presented for purposes of additional analysis and are not a required part of the basic financial statements. The other supplementary information in the financial section has been subjected to the auditing procedures applied in the audit of the basic financial statements and, in our opinion, are fairly stated, in all material respects, in relation to the basic financial statements as of and for the year ended June 30, 2011, taken as a whole. The other supplementary information in the financial section for the year ended June 30, 2010 was audited by other auditors whose report, dated December 20, 2010, expressed an unqualified opinion on such information in relation to the basic financial statements as a whole. The introduction, investments, actuarial, and statistical sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we express no opinion on them.


Schaumburg, Illinois
December 19, 2011

## MANAGEMENT'S DISCUSSION AND ANALYSIS

This discussion and analysis of the Teachers' Retirement System of the State of Illinois provides an overview of financial activities for the fiscal year ended June 30, 2011. Please read it in conjunction with the Letter of Transmittal in the Introduction Section on page 7 and the Basic Financial Statements and related notes that follow this discussion.

## Financial Highlights

- TRS net assets at June 30, 2011 were $\$ 37.5$ billion.
- During FY11, TRS net assets increased $\$ 6.1$ billion.
- Contributions from members, employers, and the state were $\$ 3,236$ million, an increase of $\$ 84$ million or 2.7 percent for the fiscal year.
- Total investment gain was $\$ 7,235$ million, compared to investment gain of $\$ 3,680$ million in $F Y 10$, an increase of $\$ 3,555$ million.
- Benefits and refunds paid to members and annuitants were $\$ 4,305$ million, an increase of $\$ 317$ million or 7.9 percent compared to FY10.
- Total actuarial accrued liability was $\$ 81.3$ billion at June 30, 2011 .
- The unfunded actuarial accrued liability increased from $\$ 39.9$ billion at June 30,2010 to $\$ 43.5$ billion at June 30, 2011 . The funded ratio decreased from 48.4 percent at June 30,2010 to 46.5 percent at June 30, 2011 . The unfunded liability and funded ratio for both years are calculated using a smoothed value of assets, as required under Public Act 96-0043.

The Basic Financial Statements contained in this section of the Comprehensive Annual Financial Report consist of:
Statements of Plan Net Assets. This statement reports the pension trust fund's assets, liabilities, and resultant net assets available to pay benefits at the end of the fiscal year. It is the balance sheet for the pension system and reflects the financial position of the Teachers' Retirement System as of June 30, 2011.

Statements of Changes in Plan Net Assets. This statement details transactions that occurred during the fiscal year. It is the income statement of TRS and reflects the revenues and expenses recorded throughout the fiscal year. The Statements of Changes in Plan Net Assets supports the change in the value of the net assets reported on the Statements of Plan Net Assets.

Notes to the Financial Statements. The notes are an integral part of the financial statements and include additional information not readily evident in the statements themselves. The required supplementary information and other schedules following the notes to the financial statements provide historical and additional detailed information considered useful in evaluating the pension system's financial condition. The following are condensed comparative financial statements of the TRS pension trust fund.

Condensed Comparative Statement of Plan Net Assets as of June 30

|  | Percentage |  | Percentage |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2011 | Change | 2010 | Change | 2009 |
| Cash | \$36,799,319 | 209.8\% | \$11,878,310 | 208.6\% | \$3,849,1 13 |
| Receivables and prepaid expenses | 176,673,155 | 3.6 | 170,460,327 | (36.3) | 267,580,363 |
| Investments | 37,748,341,891 | 19.9 | $31,482,144,166$ | 8.7 | 28,961,352,329 |
| Invested securities lending collateral | 3,104,528,064 | (12.2) | 3,535,698,706 | (16.8) | 4,251,858,945 |
| Capital assets | 3,992,703 | (1.0) | 4,032,313 | 8.8 | 3,707,543 |
| Total assets | 41,070,335,132 | 16.7 | 35,204,213,822 | 5.1 | 33,488,348,293 |
| Total liabilities | 3,599,067,938 | (7.3) | 3,880,429,608 | (22.2) | 4,990,618,850 |
| Net assets | \$37,471,267,194 | 19.6\% | \$31,323,784,214 | 9.9\% | \$28,497,729,443 |

Condensed Comparative Statement of Changes in Plan Net Assets For the Year Ended June 30

|  | Percentage |  | Percentage |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2011 | Change | 2010 | Change | 2009 |
| Contributions | \$3,235,605,731 | 2.7\% | \$3,151,550,632 | 27.1\% | \$2,480,102,691 |
| Total investment income/(loss) | 7,234,539,490 | 96.6 | 3,679,642,960 | 142.4 | $(8,688,285,511)$ |
| Total additions/ (reductions) | 10,470,145,221 | 53.3 | 6,831,193,592 | 210.0 | $(6,208,182,820)$ |
| Benefits and refunds | 4,304,870,170 | 7.9 | 3,988,188,142 | 7.6 | 3,707,423,088 |
| Administrative expenses | 17,792,071 | 5.0 | 16,950,679 | (2.5) | 17,387,936 |
| Total deductions | 4,322,662,241 | 7.9 | 4,005,138,821 | 7.5 | 3,724,811,024 |
| Net increase/(decrease) in net assets | 6,147,482,980 |  | 2,826,054,771 |  | $(9,932,993,844)$ |
| Net assets beginning of year | 31,323,784,214 | 9.9 | 28,497,729,443 | (25.8) | 38,430,723,287 |
| Net assets end of year | \$37,471,267,194 | 19.6\% | \$31,323,784,214 | 9.9\% | \$28,497,729,443 |

## Financial Analysis

TRS was created to provide retirement, survivor, and disability benefits to qualified members. Increases or decreases in plan net assets serve as useful indicators of TRS's financial position. Net assets available to pay benefits were $\$ 37.5$ billion and $\$ 31.3$ billion at June 30,2011 and 2010 , respectively. Net assets increased $\$ 6.1$ billion and $\$ 2.8$ billion during FY1 1 and FY10, respectively.

## Contributions

Contributions increased $\$ 84$ million and $\$ 671$ million during FY1 1 and FY10, respectively. During FY1 1, member contributions increased $\$ 11$ million and employer contributions from school districts decreased $\$ 17$ million. During FY10, member contributions increased $\$ 23$ million and employer contributions from school districts increased $\$ 19$ million. The decrease in employer contributions from school districts in FY1 1 is attributable to a decrease in both federal funds contributions and early retirement employer contributions.

The State of Illinois makes appropriations to TRS. Receipts from the State of Illinois increased $\$ 90$ million in FY 11 compared to an increase of $\$ 629$ million in FY10. The increase in FY1 1 occurred because the amount recertified for FY1 1 recognizing lower costs for future hires was slightly higher than the FY10 requirement (see Legislation).

State funding law provides for a 50-year funding plan that included a 15 -year phase-in period and a goal of 90 percent funding in the year 2045.

Revenues by Type for the Year Ended June 30, 2011 (\$ millions)


## Investments

The TRS trust fund is invested according to law under the "prudent person rule" requiring investments to be managed solely in the interest of fund participants and beneficiaries. Principles guiding the investment of funds include preserving the long-term principal of the trust fund and maximizing total return within prudent risk parameters.

The TRS investment portfolio had a strong year, returning 23.6 percent, net of fees, for the fiscal year ended June 30, 2011. Total TRS investment assets increased approximately $\$ 6.3$ billion during the year.

Annual Rate of Return (net of investment expenses)


The annual rate of return is an indication of TRS investment performance and is provided by the TRS master trustee.

## Benefits and Refunds

Retirement, survivor, and disability benefit payments increased $\$ 300$ million and $\$ 274$ million during FY1 1 and FY10, respectively. During FY11, benefit payments increased from $\$ 3,928$ million with 97,754 recipients in FY10 to $\$ 4,228$ million with 101,288 recipients. The overall increase in benefit payments is due to an increase in retirement benefits and number of retirees. Retirement benefits were higher as a result of annual increases in retirement benefits and an increase in the number of retirees from 87,654 as of June 30,2010 to 90,967 as of June 30, 2011.

Refunds of contributions increased $\$ 17$ million and $\$ 6$ million in FY 11 and FY 10 , respectively. The increase during FY1 1 is the result of a greater number of member, survivor benefit, and retirement refunds.

## Expenses by Type for the Year Ended June 30, 2011



## Actuarial

The annual actuarial valuation measures the total liability for all benefits earned to date. The accrued liability is a present value estimate of all the benefits that have been earned to date but not yet paid. The actuarial accrued liability increased $\$ 4.0$ billion and $\$ 4.3$ billion during FY 11 and FY10, respectively, to $\$ 81.3$ billion at June 30, 2011 and $\$ 77.3$ billion at June 30, 2010. The unfunded liability is the present value of future benefits payable that are not covered by the actuarial value of assets as of the valuation date. The unfunded liability increased $\$ 3.6$ billion during FY1 1 to $\$ 43.5$ billion at June 30,2011 compared to an increase of $\$ 4.9$ billion during FY10 to $\$ 39.9$ billion at June 30, 2010. The funded ratio reflects the percentage of the accrued liability covered by the actuarial value of assets. The funded ratio decreased to 46.5 percent at June 30,2011 from 48.4 percent at June 30, 2010.

In 2011 and 2010, the unfunded liability and funded ratio are based on a smoothed value of assets. Public Act 96-0043 required the five state retirement systems to begin smoothing actuarial gains and losses on investments over a five-year period, beginning with the valuation for the year ended June 30, 2009.

When the funded ratio was based on the market value of assets, the reported funded ratio was impacted immediately by changes in market conditions. State funding requirements based on market value assets were also immediately impacted and therefore more volatile. Using the smoothed value of assets will result in more stable reported funded ratios and state funding requirements over time.

Funded Ratio based on Actuarial Value of Assets


The funded ratio is the ratio of assets to liabilities. An increase in this ratio indicates an improvement in TRS's ability to meet future benefit obligations. The actuarial value of assets was based on market value through 2008 and five-year smoothing beginning in 2009.

## Legislation

GASB Statement Number 34 requires the Management Discussion and Analysis to include a description of currently known facts expected to have a significant effect on the financial position of TRS.

Following the enactment of Public Act 96-0889 in 2010, which created the "Tier II" benefit structure for members entering the System after January 1, 2011 , state officials estimated that the new law would reduce the five state systems' accrued liability by $\$ 220$ billion over 34 years. In calculating the state budget for FY 12, state officials assumed that a portion of these cost savings would be realized immediately during FY1 1 .

Accordingly, the state enacted Public Act 96-1511, which required the TRS Board of Trustees and the other state pension systems to officially certify a state contribution amount for FY1 1 that reflected the proportional savings from Public Act 96-0889. For TRS, the state contribution to be certified under Public Act 96-1511 was $\$ 189.2$ million lower than the state contribution originally certified for FY 11 . In January of 2011 , the TRS Board rescinded its original certified contribution of $\$ 2.358$ billion and certified a new state contribution of $\$ 2.169$ billion.

For the first time in several years, the General Assembly prioritized its annual funding contribution for the state's pension systems, including TRS, instead of behind other state budget items. Public Act 97-0067 was enacted in April of 2011 and appropriated a $\$ 2.406$ billion contribution to TRS for FY12-a full month before the scheduled end of the legislature's spring session. Public Act 97-0067 was also significant in that the funds for TRS would be generated by state tax revenues, and not from the sale of bonds. In the previous two fiscal years, state officials had relied on the sale of the bonds to raise the annual contribution for TRS and the other pension systems. Controversies surrounding the sale of those bonds delayed the receipt of the contributions for months, resulting in a higher-than-normal sale of assets to cover monthly pension payments and a loss of investment income.

## BASIC FINANCIAL STATEMENTS

Teachers' Retirement System of the State of Illinois
Statements of Plan Net Assets
as of June 30, 2011 and 2010

Assets
Cash

## Receivables and prepaid expenses

Member payroll deduction
Member contributions
Employer contributions
Investment income
Prepaid expenses
Total receivables and prepaid expenses

## Investments, at fair value

Fixed income
Equities
Real estate
Short-term investments
Private equity investments
Real return
Absolute return
Foreign currency
Derivatives
Total investments
Invested securities lending collateral
Short-term investments
Fixed income
Securities lending collateral w/State Treasurer
Total invested securities lending collateral
Property and equipment, at cost, net of accumulated depreciation of \$6,313,286
and $\$ 6,129,847$ in 2011 and 2010, respectively
Total assets
Liabilities
Benefits and refunds payable
Administrative and investment expenses payable
Payable to brokers for unsettled trades, net
Securities lending collateral
Total liabilities
Net assets held in trust for pension benefits
The accompanying notes are an integral part of these statements.
$\$ 36,799,319$

0
51,418,513
16,801,065
105,309,937
3,143,640 176,673,155
$7,087,432,551$
$17,395,697,752$
3,991,533,162
1,299,196,172
3,615,944,356
2,773,932,843
1,485,565,992
89,428,959

| $9,610,104$ |
| ---: |
| $37,748,341,891$ |

$\begin{array}{r}1,936,368,305 \\ 1,128,000,759 \\ 40,159,000 \\ \hline 3,104,528,064 \\ \hline\end{array}$

3,992,703 41,070,335,132

7,052,472
38,689,480
448,797,922
3,104,528,064
3,599,067,938
$\$ 37,471,267,194$

396,472
50,954,327
18,699,097
94,799,065
5,611,366
$170,460,327$

$$
\begin{array}{r}
6,551,272,735 \\
14,411,659,754 \\
3,252,463,291 \\
683,859,686 \\
2,990,955,411 \\
2,295,427,875 \\
1,231,558,537 \\
68,454,294 \\
(3,507,417) \\
\hline 31,482,144,166 \\
\hline
\end{array}
$$

4,032,313
35,204,213,822

5,337,764
64,443,676
274,949,462
3,535,698,706
3,880,429,608
$\xlongequal{\$ 31,323,784,214}$

## Additions

## Contributions

| Members | \$909,577,109 | \$899,401,028 |
| :---: | :---: | :---: |
| State of Illinois | 2,170,918,489 | 2,080,729,055 |
| Employers |  |  |
| Early retirement | 28,419,125 | 36,756,995 |
| Federal funds | 66,065,322 | 74,449,701 |
| 2.2 benefit formula | 53,253,976 | 53,953,836 |
| Excess salary/sick leave | 7,371,710 | 6,260,017 |
| Total contributions | 3,235,605,731 | 3,151,550,632 |
| Investment income |  |  |
| From investment activities |  |  |
| Net appreciation in fair value | 6,493,315,290 | 2,999,370,225 |
| Interest | 263,477,734 | 291,830,747 |
| Real estate operating income, net | 167,163,511 | 174,189,540 |
| Dividends | 418,407,718 | 344,648,907 |
| Private equity income | 77,727,706 | 32,412,430 |
| Other investment income | 14,903,813 | 16,846,619 |
| Investment activity income | 7,434,995,772 | 3,859,298,468 |
| Less investment expense | $(218,249,613)$ | $(200,766,937)$ |
| Net investment activity income | 7,216,746,159 | 3,658,531,531 |
| From securities lending activities |  |  |
| Securities lending income | 15,664,263 | 19,544,789 |
| Securities lending management fees | $(1,982,926)$ | $(2,347,093)$ |
| Securities lending borrower rebates | 4,111,994 | 3,913,733 |
| Net securities lending activity income | 17,793,331 | 21,111,429 |
| Total investment income | 7,234,539,490 | 3,679,642,960 |
| Total additions | 10,470,145,221 | 6,831,193,592 |

## Deductions

Retirement benefits
Survivor benefits
Disability benefits
Refunds
Administrative expenses
Total deductions
Net increase

| $4,036,147,172$ | $3,749,665,623$ |
| ---: | ---: |
| $163,909,654$ | $151,073,880$ |
| $28,226,152$ | $27,098,860$ |
| $76,587,192$ | $60,349,779$ |
| $17,792,071$ | $16,950,679$ |
| $\mathbf{4 , 3 2 2 , 6 6 2 , 2 4 1}$ | $4,005,138,821$ |
| $\mathbf{6 , 1 4 7 , 4 8 2 , 9 8 0}$ | $2,826,054,771$ |

Net assets held in trust for pension benefits
Beginning of year

## End of year

31,323,784,214 \$37,471,267,194
The accompanying notes are an integral part of these statements.

## Notes to Financial Statements

## A. Plan Description

## 1. Reporting Entity

The Teachers' Retirement System of the State of Illinois (TRS) is the administrator of a cost-sharing, multipleemployer defined benefit public employee retirement system (PERS). Membership is mandatory for all full-time, part-time, and substitute public school personnel employed outside of Chicago in positions requiring certification. Persons employed at certain state agencies are also members. Established by the State of Illinois, TRS is governed by the Illinois Pension Code (40 ILCS 5/16). TRS is a component unit of the State of Illinois and is included in the state's financial statements as a pension trust fund.

TRS uses criteria established by the Governmental Accounting Standards Board (GASB) to determine whether other entities should be included within its financial reporting entity. Based on the criteria, TRS includes no other entities in these financial statements.

## 2. Employers

Members of TRS are employed by school districts, special districts, and certain state agencies. Each employer remits member contributions to TRS. Employers are responsible for employer contributions for teachers paid from federal funds, employer contributions for the 2.2 formula increase, and for the employer's portion of the Early Retirement Option contributions. As a result of Public Act 94-0004, which became law on June 1, 2005, employers are also required to pay the cost of pension benefits resulting from end-of-career salary increases over 6 percent. Public Act 94-1057, which became law on July 31, 2006, provides additional exemptions from employer contributions for excess salary increases. Some of these exemptions are permanent while others are available for a limited time period. Employers also pay a contribution for sick leave days granted in excess of the member's normal annual allotment and used for service credit at retirement. The contributions do not apply to salary increases awarded or sick leave granted under contracts or collective bargaining agreements entered into, amended, or renewed prior to June 1, 2005. In addition, the State of Illinois provides employer contributions. For information about employer contributions made by the State of Illinois, see "Funding Status and Funding Progress" on page 28.

Number of Employers (as of June 30)

|  | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 0}$ |
| :--- | ---: | ---: |
| Local school districts | 866 | 867 |
| Special districts | 141 | 140 |
| State agencies | $\underline{22}$ | $\mathbf{2 3}$ |
| Total | $\underline{1,029}$ | $\underline{1,030}$ |

## 3. Members

TRS Membership (as of June 30)

|  | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 0}$ |
| :--- | ---: | ---: |
| Retirees and beneficiaries receiving benefits | 101,288 | 97,754 |
| Inactive members entitled to but not yet receiving benefits | 94,820 | 104,222 |
| Active members | $\underline{166,013}$ | $\underline{170,275}$ |
| Total | $\underline{\mathbf{3 6 2 , 1 2 1}}$ | $\underline{\mathbf{3 7 2 , 2 5 1}}$ |

## 4. Benefit Provisions

Governed by the Illinois Pension Code (40 ILCS 5/16), which is subject to amendment by the Illinois General Assembly and approval by the Governor, TRS provides retirement, death, and disability benefits.

Public Act 96-0889, which was signed into law in the spring of 2010, added a new section to the Pension Code that applies different benefits to anyone who first contributes to TRS on or after January 1, 2011 and does not have any previous service credit with a pension system that has reciprocal rights with TRS. These members are referred to as "Tier II" members.

## Tier II Benefits

Changes from the "Tier l" pension law include raising the minimum eligibility to draw a retirement benefit to age 67 with 10 years of service, initiating a cap on the salaries used to calculate retirement benefits, and limiting cost-of-living annuity adjustments to the lesser of 3 percent or $1 / 2$ of the annual increase in the Consumer Price Index, not compounded. The retirement formula is unchanged.

The new pension law does not apply to anyone who has made contributions to TRS prior to January 1, 2011. These members remain participants of Tier I.

## Tier I Benefits

A member qualifies for an age retirement annuity after meeting one of the following requirements: age 62 with five years of service credit; age 60 with 10 years; or age 55 with 20 years. If a member retires between the ages of 55 and 60 with fewer than 35 years of service, the annuity will be reduced at the rate of 0.50 percent for each month the member is under age 60. A member who is age 55 and has at least 20 and fewer than 35 years of service credit may use the Early Retirement Option (ERO) to avoid a discount for early retirement if retirement occurs within six months of the last day of service requiring contributions and if the member and employer both make a one-time contribution to TRS.

A member with fewer than five years of creditable service and service on or after July 1,1947 , is entitled to a single-sum benefit payable once he or she reaches age 65.

A retirement benefit is determined by the average salary of the four highest consecutive salary rates within the last 10 years of creditable service and the percentage of average salary to which the member is entitled. This percentage is determined by the following formula for service earned before July 1, 1998: 1.67 percent for each of the first 10 years, plus 1.9 percent for each of the next 10 years, plus 2.1 percent for each of the next 10 years, plus 2.3 percent for each year over 30 years. The maximum retirement benefit, 75 percent of average salary, is achieved with 38 years of service under the graduated formula.

Public Act 90-0582 improved retirement benefits for TRS members by changing the rate at which members accrue benefits beginning July 1, 1998, from a graduated rate to a flat rate equal to 2.2 percent of final average salary. Members may attain the maximum 75 percent benefit with 34 years of service under the 2.2 benefit formula. Members retiring on or after the effective date have the option of upgrading their service earned prior to July 1, 1998, to the flat 2.2 percent formula by making a payment to TRS. Additionally, for members who continue to teach, every three full years worked after July 1, 1998, count toward a full one-year reduction of the years to be upgraded.

A money purchase (actuarial) benefit is payable if it results in a higher annuity than either the graduated or 2.2 formula. The 75 percent cap does not apply to the money purchase benefit. Public Act 94-0004 eliminates the money purchase benefit for persons who become TRS members after June 30, 2005.

Essentially all retirees receive an annual 3 percent increase in the current retirement benefit beginning January 1 following the attainment of age 61 or January 1 following the first anniversary in retirement, whichever is later.

If a member leaves covered employment, TRS will refund a member's retirement contributions upon request. The refund consists of actual contributions, excluding the 1 percent death benefit contribution.

## 5. Funding Status and Funding Progress

The funded status of the plan as of June 30,2011, the most recent actuarial valuation date, follows and is compared to the 2010 funded status. The actuarial value of assets is rounded to the nearest thousand to be consistent with actuarial disclosures.

| Actuarial Valuation Date | Actuarial Value of Assets* | Actuarial <br> Accrued Liability | Funded Ratio | Unfunded Actuarial Accrued Liability | Annual Payroll | Unfunded <br> Actuarial Accrued <br> Liability as a Percentage of Covered Payroll |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6/30/10 | \$37,439,092,000 | \$77,293,198,000 | 48.4\% | \$39,854,106,000 | \$9,251,139,000 | 430.8\% |
| 6/30/11 | 37,769,753,000 | 81,299,745,000 | 46.5 | 43,529,992,000 | 9,205,603,000 | 472.9 |

The schedules of funding progress, presented as required supplementary information (RSI) following the notes to the financial statements, present multi-year trend information about whether the actuarial values of plan assets are increasing or decreasing over time relative to the actuarial accrued liability for benefits.

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

## Actuarial Cost Method: <br> Projected unit credit

## Amortization Method:

a) For GASB Statement \#25 reporting purposes
b) Per state statute

Level percent of payroll
15-year phase-in to a level percent of payroll reached in FY10; then level percent of pay until a $90 \%$ funding level is achieved in FY45

## Remaining Amortization Period:

a) For GASB Statement \#25 reporting purposes
b) Per state statute

## Asset Valuation Method:

## Actuarial Assumptions:

Investment rate of return
Projected salary increases
Group size growth rate
Assumed inflation rate
Real wage growth (productivity)
Post-retirement increase Mortality table

30 years, open
34 years, closed (June 30, 2011)
35 years, closed (June 30, 2010)
Beginning with June 30, 2009 valution, five-year smoothing, prospective

## 8.5\%

6.0\% (at age 69) to $11.1 \%$ (at age 20); composite $7.0 \%$; includes inflation and real wage growth (productivity) assumptions

## 0\%

3.5\%
1.2\%
$3 \%$ compounded
1995 Buck Mortality Tables projected 16 years for males and one year for females. For beneficiaries, projected one year for both males and females, then rated forward two years for males and forward one year for females. Projected mortality improvements using Society of Actuaries Mortality Projection Scale AA are phased in over four years, beginning July 1, 2007.

Member, employer, and state contributions are statutorily defined by the Illinois Pension Code (40 ILCS 5/16), which is subject to amendment by the Illinois General Assembly and approval by the Governor. Since July 1, 1995, state appropriations have been made through a continuing appropriation.

Effective July 1, 1998, member contributions increased from 8 percent to 9 percent of salary. These contributions are allocated as follows: 7.5 percent for retirement, 0.50 percent for post-retirement increases, and 1 percent for death benefits. The contribution rate changed from 9.0 percent to 9.4 percent effective July 1,2005 as a result of Public Act 94-0004. The additional 0.4 percent is to help cover the cost of ERO and is refundable if the member does not retire using ERO or if the ERO program terminates.

Employer contributions are made by or on behalf of employers from several sources. The State of Illinois provides the largest source of contributions through state appropriations from the Common School Fund. An additional source of state contributions has been the Educational Assistance Fund. Employers also make contributions for the 2.2 benefit formula and for teachers who are paid from federal funds. Additionally, employers contribute their portion of the cost of the Early Retirement Option and any excess salary increase or sick leave costs due.

State funding law provides for a 50 -year funding plan that includes a 15 -year phase-in period.
On April 7, 2003, Public Act 93-0002 authorized the State of Illinois to issue $\$ 10$ billion in general obligation bonds for the purpose of making contributions to designated retirement systems. TRS received an allocation of bond proceeds equal to $\$ 4,330,373,948$ on July 1, 2003. The $\$ 4.330$ billion in pension obligation bond proceeds received in $\mathrm{FYO4}$ were not counted as contributions towards TRS's annual actuarial funding requirements for FYO4 because future state contributions are reduced by the state's debt service due on the TRS share of the proceeds. In FYO5, state contributions were reduced in accordance with funding revisions contained in the pension obligation bond law.

In FYO6 and FY07, state contributions were based on dollar amounts specified by Public Act 94-0004. The legislation contains a two-year funding reduction of approximately 50 percent or over $\$ 1$ billion for TRS. Since FYO8, state contributions have increased according to the ramp schedule to reach a level percent of payroll by FY10 and a 90 percent funded ratio at the end of FY45.

Public Act 96-0043, effective July 15, 2009, requires TRS to use a five-year smoothing method for asset valuation beginning on June 30, 2009. It first affects state contribution requirements in FY11.

In FY10 and FY11, pension bonds were issued by the State of Illinois to cover the state's share of TRS funding requirements not covered by state appropriations. These pension bonds did not reduce future state contributions like the 2003 pension obligation bonds.

- Public Act 96-0043, which also requires asset smoothing, authorized the sale of bonds for the remainder of the FY10 state funding requirement. In FY10, $\$ 834,861,667$ was received in Common School Fund appropriations and $\$ 1,245,867,388$ in pension bonds was received in January 2010.
- Public Act 96-1497 authorized the sale of bonds for the remainder of the FY1 1 state funding requirement. In FY11, \$110,000,000 was received in Common School Fund appropriations and \$2,060,918,489 in pension bonds was received in March 2011.

Administrative expenses are budgeted and approved by the TRS Board of Trustees. Funding for these expenses is included in the employer contribution, as determined by the annual actuarial valuation.

## B. Summary of Significant Accounting Policies

1. Basis of Accounting

TRS's financial statements are prepared using the accrual basis of accounting. Member and employer contributions are recognized as revenues when due, pursuant to formal commitments, as well as statutory or contractual
requirements. Benefits and refunds are recognized as expenditures when they are due and payable in accordance with the terms of the plan.

## 2. Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of additions to and deductions from net assets during the reporting period. Actual results could differ from these estimates. TRS uses an actuary to determine the actuarial accrued liability for the defined benefit plan and to determine the actuarially required contribution.

## 3. Risks and Uncertainties

TRS investments are diversified and include various investment securities. Investment securities are exposed to a variety of risk including credit, market and interest rate risk. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that value changes will occur in the near-term and such changes could materially affect the amounts reported in the Statement of Plan Net Assets.

## 4. New Accounting Pronouncements

In June 2010, GASB issued Statement No. 59, "Financial Instruments Omnibus." This statement addresses updating and improving existing standards regarding financial reporting and disclosure requirements of certain financial instruments and external investment pools for which significant issues have been identified in practice. The provisions of this statement are effective for periods beginning after June 15, 2010. There was no material impact to the financial statements as TRS implemented GASB 59 in the year ended June 30, 2011.

Statement No. 63, "Financial Reporting of Deferred Outflows of Resources, Deferred Inflows of Resources and Net Position," was established to provide a framework that specifies where deferred outflows of resources and deferred inflows of resources, assets, liabilities and net position should be displayed on the financial statements. TRS is required to implement this Statement for the year ending June 30, 2013.

Statement No. 64, "Derivative Instruments: Application of Hedge Accounting Termination Provisions - An Amendment to GASB Statement No. 53," was established to enhance comparability and improve financial reporting by clarifying the circumstances in which hedge accounting should continue when a swap counterparty, or a swap counterparty's credit support provider, is replaced. TRS is required to implement this Statement for the year ending June 30, 2012.

Management has not yet completed its assessment of these pending Statements; however, they are not expected to have a material effect on the overall financial statement presentation.

## 5. Method Used to Value Investments

TRS reports investments at fair value. Fair value for publicly traded real return funds, equities, foreign currency, and exchange traded derivatives is determined by using the closing price listed on national securities exchanges as of June 30. Fair value for fixed income securities and over-the-counter derivatives is determined primarily by using quoted market prices provided by independent pricing services. Short-term investments are generally reported at average cost, which approximates fair value. Appraisals are used to determine fair value on directly-owned real estate investments. Fair value for private equity investments, absolute return funds, nonpublicly traded real return funds and partnership interests in real estate funds is determined by TRS staff and the general partners or investment managers in accordance with the provisions in the individual agreements. These agreements also require an independent audit be performed on an annual basis.

## 6. Property and Equipment

Equipment is stated on the basis of historical cost. Depreciation is computed using the straight-line method based upon the estimated useful lives of the assets. Office furniture and equipment are assigned a useful life of three to 10 years while vehicles are assigned a five-year life. TRS's office building is depreciated over 40 years. Intangible assets are reported as part of property and equipment, with software having an estimated useful life from three to five years.

## 7. Accrued Compensated Absences

When employment is terminated, TRS employees are entitled to receive compensation for all accrued unused vacation time and one-half of all unused sick leave earned through December 31, 1997. (Lump-sum payments for sick leave earned prior to January 1, 1984, are subject to a maximum of 60 days or 420 hours.) Accrued compensated absences as of June 30,2011 , and 2010 totaled $\$ 1,577,399$ and $\$ 1,617,453$, respectively, and are included as administrative and investment expenses payable.

## 8. Receivables

Receivables consist primarily of 1) member and employer contributions owed and yet to be remitted by the employing districts as of June 30, and 2) interest, dividends, real estate and private equity income owed to TRS as of June 30.

TRS assesses penalties for late payment of contributions and may collect any unpaid amounts from the employing districts by filing a claim with the regional superintendent of education or the Office of the Comptroller against future state aid payments to the employer. TRS considers these amounts to be fully collectible.

Members were previously allowed to enter into Payroll Deduction Program agreements with their employers to purchase service credit or upgrade their benefit formulas. The program was discontinued on June 30, 2010. Employers had until July 10, 2010 to remit June deductions.

## 9. Prior Period Reclassification

Certain prior year amounts have been reclassified on a basis consistent with the current year presentation.

## 10. Risk Management

TRS, as a component unit of the State of Illinois, provides for risks of loss associated with workers' compensation and general liability through the State's self-insurance program. TRS obtains commercial insurance for fidelity, surety, and property. No material commercial insurance claims have been filed in the last three fiscal years.

## C. Cash

Custodial credit risk for deposits is the risk that in the event of a bank failure, TRS's deposits may not be returned. TRS has a formal policy to address custodial credit risk. The policy's purpose is to minimize custodial credit risk through proper due diligence of custody financial institutions and investment advisors; segregate safekeeping of TRS assets; establish investment guidelines; and endeavor to have all investments held in custodial accounts through an agent, in the name of custodian's nominee, or in a corporate depository or federal book entry account system. For those investment assets held outside of the custodian, TRS will follow the applicable regulatory rules.

The non-investment bank balance and carrying amount of TRS's deposits were \$36,799,082 and \$36,799,319 at June 30,2011 and $\$ 11,878,155$ and $\$ 11,878,310$ at June 30,2010 . Of the bank balance, $\$ 36,798,819$ and $\$ 11,877,810$ were on deposit with the state treasurer at June 30,2011 , and 2010 , respectively. State treasurer deposits are in an internal investment pool collateralized at a third party custodial bank and are not subject to custodial credit risk. Certain investments of TRS with maturities of 90 days or less would be considered cash equivalents; these consist of bank-sponsored, short-term investment funds, commercial paper, and repurchase agreements. For financial statement presentation and investment purposes, TRS reports its cash equivalents as short-term investments in the Statements of Plan Net Assets.

For purposes of this disclosure, foreign currency held by investment managers is considered a deposit. However, for financial statement presentation and investment purposes, TRS considers foreign currency an investment asset. Uncollateralized foreign currency subject to custodial credit risk was $\$ 89,428,959$ and $\$ 68,454,294$ at June 30, 2011 and June 30, 2010, respectively.

## D. Investments

## 1. Investment Policies

Through the Board of Trustees, as authorized in the Illinois Pension Code, TRS serves as fiduciary for the members' trust funds and is responsible for investment of those funds by authority of the "prudent person rule." This rule establishes a standard for all fiduciaries by specifying fiduciary responsibility with regard to the members' trust funds.

## 2. Investment Risk

## Custodial Credit Risk

Custodial credit risk for investments is the risk that, in the event of a financial institution failure, TRS would not be able to recover the value of the investments in the possession of an outside party. TRS has a formal policy to address custodial credit risk.

## Credit Risk

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations to TRS. Credit risk exposure is dictated by each investment manager's agreement. Each portfolio is managed in accordance with investment guidelines that are specific as to permissible credit quality ranges, exposure levels within individual security quality rating tiers, and/or the average credit quality of the overall portfolio. Most guidelines allow managers to hold bonds rated Caa2 or better. However, in circumstances where position downgrades occur, investment managers have been given permission to hold securities due to circumstances such as a higher peer group rating from another nationally recognized statistical rating organization, the investment manager's internal ratings, or other mitigating factors.

As of June 30, 2011, TRS held the following fixed income investments with respective Moody's quality ratings. Obligations of the U.S. government or obligations explicitly guaranteed by the U.S. government are not considered to have credit risk.

| Moody's Quality Rating | Corporate Debt Securities | Foreign Debt Securities | U.S. Agency Obligations | Commingled Funds | Securities Lending Collateral | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Aaa | \$396,039,937 | \$646,447,393 | \$1,842,804,827 | \$- | \$341,027,329 | \$3,226,319,486 |
| Aal | 16,745,645 | 31,364,918 | 4,094,353 | - | 317,488,185 | 369,693,101 |
| Aa2 | 71,754,273 | 130,771,498 | 11,877,400 | - | 317,699,361 | 532,102,532 |
| Aa3 | 42,049,634 | 38,432,155 | 17,864,936 | - | 151,785,884 | 250,132,609 |
| A1 | 56,715,352 | 130,802,616 | 26,378,270 | - | - | 213,896,238 |
| A2 | 163,887,018 | 57,114,009 | 6,822,685 | - | - | 227,823,712 |
| A3 | 102,939,556 | 38,546,443 | 4,085,168 | - | - | 145,571,167 |
| Baal | 194,772,146 | 142,776,021 | - | - | - | 337,548,167 |
| Baa2 | 202,152,604 | 69,130,548 | - | - | - | 271,283,152 |
| Baa3 | 223,764,152 | 197,890,854 | - | - | - | 421,655,006 |
| Ba 1 | 165,647,514 | 92,520,001 | - | - | - | 258,167,515 |
| Ba2 | 122,809,370 | 18,678,334 | - | 53,767,507 | - | 195,255,211 |
| Ba3 | 107,193,105 | 14,968,528 | - | - | - | 122,161,633 |
| B1 | 88,692,232 | 15,563,353 | - | - | - | 104,255,585 |
| B2 | 70,898,522 | 35,314,065 | - | - | - | 106,212,587 |
| B3 | 68,939,251 | 33,003,761 | - | - | - | 101,943,012 |
| Caal | 24,811,634 | 1,720,400 | - | - | - | 26,532,034 |
| Caa2 | 32,235,663 | 3,994,750 | - | - | - | 36,230,413 |


| (continued) <br> Moody's <br> Quality <br> Rating | Corporate Debt Securities | Foreign Debt Securities | U.S. Agency Obligations | Commingled Funds | Securities Lending Collateral | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Caa3 | \$25,617,957 | \$- | \$- | \$- | \$- | \$25,617,957 |
| Ca | 10,677,503 | 6,600,590 | - | - |  | 17,278,093 |
| C | 1,214,310 | - | - | - |  | 1,214,310 |
| Not available | 72,210,814 | 202,349,806 | 19,028,505 | 842,536,539 | - | 1,136,125,664 |
| Not rated | 4,958,409 | 14,801,639 | - | 42,629,906 | - | 62,389,954 |
| Withdrawn | 21,002,391 | 925,835 | 4,095,946 | - | - | 26,024,172 |
| Total bonds, corporate notes and government obligations | \$2,287,728,992 | \$1,923,717,517 | \$1,937,052,090 | \$938,933,952 | \$1,128,000,759 | \$8,215,433,310 |

As of June 30, 2010, TRS held the following fixed income investments with respective quality ratings.

| Moody's Quality Rating | Corporate Debt Securities | Foreign Debt Securities | U.S. Agency Obligations | Commingled Funds | Securities Lending Collateral | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Aad | \$492,355,834 | \$590,322,587 | \$2,059,283,400 | \$- | \$280,757,130 | \$3,422,718,951 |
| Aal | 20,586,071 | 35,988,983 | 1,041,798 | - | 369,530,972 | 427,147,824 |
| Aa2 | 97,533,313 | 66,272,495 | 28,775,075 | - | 213,949,247 | 406,530,130 |
| Aa3 | 72,965,663 | 21,184,279 | 14,150,755 | - | 129,888,055 | 238,188,752 |
| A1 | 113,261,803 | 118,611,128 | 18,512,839 | - |  | 250,385,770 |
| A2 | 241,945,705 | 51,387,506 | 2,612,575 | - |  | 295,945,786 |
| A3 | 152,491,630 | 32,239,381 | 22,961,828 | - |  | 207,692,839 |
| Baal | 196,308,469 | 171,420,089 | 29,158,741 | - |  | 396,887,299 |
| Baa2 | 261,879,317 | 72,500,229 | 21,793 | - |  | 334,401,339 |
| Baa3 | 236,993,631 | 82,430,521 | - | - |  | 319,424,152 |
| Bal | 169,913,124 | 21,367,442 | 14,219,524 | - |  | 205,500,090 |
| Ba2 | 56,922,047 | 87,397,418 | - | 45,615,342 |  | 189,934,807 |
| Ba3 | 101,504,265 | 17,769,942 | - | - |  | 119,274,207 |
| B1 | 55,589,087 | 7,014,542 | - | - |  | 62,603,629 |
| B2 | 63,816,797 | 14,910,482 | - | - | - | 78,727,279 |
| B3 | 56,064,616 | 13,602,240 | - | - |  | 69,666,856 |
| Caal | 41,916,969 | - | - | - |  | 41,916,969 |
| Caa2 | 42,749,872 | - | - | - | - | 42,749,872 |
| Caa3 | 20,810,781 | - | - | - |  | 20,810,781 |
| Ca | 8,126,453 | - | - | - | - | 8,126,453 |
| C | 423,428 | - | - | - | - | 423,428 |
| Not available | 23,955,215 | 101,395,376 | 159,191,018 | 26,253,241 | - | 310,794,850 |
| Not rated | 33,699,942 | 51,270,245 | 4,094,310 | - | - | 89,064,497 |
| Withdrawn | 6,478,250 | 3,329 |  | - | - | 6,481,579 |
| Total bonds, corporate notes and government obligations | \$2,568,292,282 | \$1,557,088,214 | \$2,354,023,656 | \$71,868,583 | \$994,125,404 | \$7,545,398,139 |

## Interest Rate Risk

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. TRS's fixed income investments are managed in accordance with operational guidelines that are specific as to the degree of interest rate risk that can be taken. TRS manages 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.


* Maturity date is not available or applicable.
** Weighted average maturity figures were used to plot the commingled funds within the schedule
The segmented time distribution of the various investment types of TRS debt securities at June 30, 2010 is as follows:
Maturity in Years

| Type | 2010 Market Value | Less Than 1 year | 1 to 5 years | 5 to 10 years | 10 to 20 years | More Than 20 years | Other* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. treasuries | \$649,461,814 | \$32,700,407 | \$337,096,311 | \$152,147,890 | \$63,935,608 | \$63,581,598 | \$- |
| U.S. federal agencies | 253,893,175 | 136,971,690 | 35,638,903 | 42,894,488 | 20,995,626 | 17,392,468 | - |
| U.S. government index-linked bonds | 287,871,078 | 13,662,829 | 72,786,779 | 44,715,268 | 138,643,299 | 18,062,903 | - |
| U.S. government-backed mortgages | 955,686,526 | 100,509 | 1,343,462 | 97,912,352 | 117,062,446 | 739,267,757 | - |
| U.S. government-backed bonds | 110,671,769 | 809,530 | 78,602,074 | 5,104,133 | - | 26,156,032 | - |
| U.S. government special situations | 28,523,685 | - | - | - | - | - | 28,523,685 |
| Municipals (taxable) | 67,915,609 | - | 10,315,198 | 3,194,494 | 18,859,159 | 35,546,758 | - |
| Credits |  |  |  |  |  |  |  |
| Bank loans | 988,929 | - | 988,929 | - | - | - | - |
| Financial | 694,537,178 | 52,494,581 | 238,896,161 | 279,297,888 | 10,281,676 | 113,566,872 | - |
| Industrial | 945,702,864 | 12,871,159 | 179,080,424 | 445,904,662 | 46,595,520 | 261,251,099 | - |
| Utilities | 89,049,210 | 5,422,068 | 18,591,299 | 34,258,749 | 4,273,310 | 26,503,784 | - |
| Asset-backed securities | 337,410,443 | 843,081 | 45,028,072 | 63,416,868 | 144,913,254 | 83,209,168 | - |
| Commercial mortgage-backed securities | 136,703,649 | 8,175,680 | - | 1,580,841 | 3,940,280 | 123,006,848 | - |
| Collateralized mortgage obligations | 322,117,221 | 517,602 | - | 24,985,397 | 7,245,073 | 289,369,149 | - |
| Commingled/closed-end funds** | 71,868,583 | - | 26,253,241 | 45,615,342 | - | - | - |
| Corporate convertible bonds | 41,782,788 | - | 5,735,250 | 1,956,938 | - | 34,090,600 | - |
| Foreign debt/corporate obligations | 1,557,088,214 | 60,480,451 | 647,986,961 | 357,364,003 | 300,867,981 | 190,388,818 | - |
| Total bonds, corporate notes and government obligations | 6,551,272,735 | 325,049,587 | 1,698,343,064 | 1,600,349,313 | 877,613,232 | 2,021,393,854 | 28,523,685 |
| Securities lending collateral | 994,125,404 | 268,174,381 | 725,951,023 | - | - | - | - |
| Derivatives | $(3,507,417)$ | $(4,312,180)$ | 1,556,261 | $(751,498)$ | - | - | - |
| Total bonds, corporate notes, government obligations, securities lending collateral and derivatives | \$7,541,890,722 | \$588,911,788 | \$2,425,850,348 | \$1,599,597,815 | \$877,613,232 | \$2,021,393,854 | \$28,523,685 |

*U.S. Government special situations are private funds and therefore do not have a maturity date.
** Weighted average maturity figures were used to plot the commingled funds within the schedule.

## Foreign Currency Risk

Foreign currency risk is the risk that changes in exchange rates will adversely impact the fair value of an investment. TRS's currency risk exposure, or exchange rate risk, is primarily derived from its holdings in foreign currency-denominated equity, fixed income investments, and foreign currency. According to TRS's Investment Policy and investment manager agreements, international equity and global fixed income managers, at their discretion, may or may not hedge the portfolio's foreign currency exposures with currency forward contracts or options depending upon their views on a specific country or foreign currency relative to the U.S. dollar.

TRS's exposure to foreign currency risk in U.S. dollars as of June 30,2011 is as follows:

| Currency | Foreign Currency | Equities | Fixed Income | Derivatives | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Australian Dollar | \$2,207,124 | \$265,883,255 | \$91,902,274 | (\$110) | \$359,992,543 |
| Brazilian Real | 3,274,286 | 131,559,478 | 47,791,959 | 1,450,586 | 184,076,309 |
| British Pound | 8,513,950 | 1,123,212,750 | 216,407,908 | - | 1,348,134,608 |
| Canadian Dollar | 10,018,701 | 293,181,855 | 111,787,729 | - | 414,988,285 |
| Chilean Peso | 30,622 | 984,227 | 2,621,704 | - | 3,636,553 |
| Chinese Yuan | $(72,935)$ |  |  |  | $(72,935)$ |
| Czech Koruna |  | 11,865,812 |  |  | 11,865,812 |
| Danish Krone | 1,080,858 | 37,451,229 | - | - | 38,532,087 |
| Egyptian Pound | 276,852 | 11,650,936 | 19,984,677 | - | 31,912,465 |
| Euro | 31,723,764 | 1,482,988,943 | 402,001,894 | 866,562 | 1,917,581,163 |
| Ghana Cedi |  |  | 15,568,615 |  | 15,568,615 |
| Hong Kong Dollar | 2,400,349 | 375,346,540 |  | - | 377,746,889 |
| Hungarian Forint | 211,432 | 21,428,306 | 44,728,892 | - | 66,368,630 |
| Indian Rupee | 1,641,914 | 79,515,688 | 13,403,550 | - | 94,561,152 |
| Indonesian Rupiah | 1,952,876 | 67,372,072 | 51,181,797 | - | 120,506,745 |
| Israeli Shekel | 152,902 | 12,439,119 | 21,939,596 | - | 34,531,617 |
| Japanese Yen | 15,606,662 | 1,046,231,673 | 33,780,611 | - | 1,095,618,946 |
| Malaysian Ringgit | 659,913 | 41,576,390 | 6,417,566 | - | 48,653,869 |
| Mexican Peso | 2,208,665 | 18,805,169 | 73,296,502 | 764 | 94,311,100 |
| Moroccan Dirham | 86,839 | 968,003 |  | - | 1,054,842 |
| New Taiwan Dollar | 491,855 | 170,583,748 |  | - | 171,075,603 |
| New Zealand Dollar | 173,763 | 10,005,710 | 18,989,921 | - | 29,169,394 |
| Norwegian Krone | 277,460 | 63,655,559 | - | - | 63,933,019 |
| Philippine Peso | 83,434 | 13,546,371 | 8,256,865 | - | 21,886,670 |
| Polish Zloty | 1,789 | 34,948,424 | 39,117,915 | - | 74,068,128 |
| Singapore Dollar | 596,186 | 117,407,798 | 829,464 | - | 118,833,448 |
| South African Rand | 40,025 | 45,724,666 | - | - | 45,764,691 |
| South Korean Won | 1,771,513 | 240,136,720 | 101,314,269 |  | 343,222,502 |
| Swedish Krona | 46,893 | 79,066,312 | 34,974,456 | - | 114,087,661 |
| Swiss Franc | 1,998,879 | 395,285,670 |  | - | 397,284,549 |
| Thai Baht | 1,342,331 | 98,104,330 | - | - | 99,446,661 |
| Turkish Lira | 630,057 | 46,945,784 | - | - | 47,575,841 |
| Ukraine Hryvnia | - |  | 5,511,510 | - | 5,511,510 |
| Total subject to foreign currency risk | 89,428,959 | 6,337,872,537 | 1,361,809,674 | 2,317,802 | 7,791,428,972 |
| Investments in international securities payable in United States dollars | - | 1,078,456,348 | 646,644,985 | - | 1,725,101,333 |
| Total international investment securities (including domesti. securities payable in foreign currency) | 89,428,959 | 7,416,328,885 | 2,008,454,659 | 2,317,802 | 9,516,530,305 |
| Domestic investments (excluding securities payable in foreign currency) | - | 9,979,368,867 | 5,078,977,892 | 7,292,302 | 15,065,639,061 |
| Total fair value | \$89,428,959 | \$17,395,697,752 | \$7,087,432,551 | \$9,610,104 | \$24,582,169,366 |
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TRS's exposure to foreign currency risk in U.S. dollars as of June 30, 2010 is as follows:

| Currency | Foreign Currency | Equities | Fixed Income | Derivatives | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Australian Dollar | \$530,520 | \$233,980,872 | \$59,135,175 | \$20,369 | \$293,666,936 |
| Brazilian Real | 4,248,306 | 91,517,002 | 35,812,383 | 1,575,903 | 133,153,594 |
| British Pound | 5,125,167 | 941,334,630 | 138,033,265 |  | 1,084,493,062 |
| Canadian Dollar | 2,010,719 | 115,155,532 | 171,777,428 | - | 288,943,679 |
| Chilean Peso | 2,669 | 749,403 | - |  | 752,072 |
| Czech Koruna |  | 14,124,750 |  |  | 14,124,750 |
| Danish Krone | 138,481 | 54,746,978 | - |  | 54,885,459 |
| Egyptian Pound | 744,176 | 13,096,163 | 18,265,490 | - | 32,105,829 |
| Euro | 23,863,130 | 1,257,802,546 | 161,835,796 | 255,452 | 1,443,756,924 |
| Hong Kong Dollar | 835,131 | 216,834,038 |  |  | 217,669,169 |
| Hungarian Forint |  | 23,792,178 |  |  | 23,792,178 |
| Indian Rupee |  | 89,914 | 12,253,127 | - | 12,343,041 |
| Indonesian Rupiah | 279,097 | 39,846,088 | 76,901,393 |  | 117,026,578 |
| Israeli Shekel | 62,691 | 5,392,286 | 14,755,162 | - | 20,210,139 |
| Japanese Yen | 13,030,927 | 1,057,124,623 | 26,618,739 |  | 1,096,774,289 |
| Malaysian Ringgit | 518,891 | 31,362,518 | 6,177,981 |  | 38,059,390 |
| Mexican Peso | 2,676,299 | 27,430,300 | 73,951,295 |  | 104,057,894 |
| Moroccan Dirham | 44,507 | 1,047,184 |  |  | 1,091,691 |
| New Taiwan Dollar | 1,224,357 | 117,043,979 |  |  | 118,268,336 |
| New Zealand Dollar | 1,984,295 | 11,425,880 | 17,179,583 |  | 30,589,758 |
| Norwegian Krone | 439,073 | 58,192,919 |  |  | 58,631,992 |
| Philippine Peso | 1,548 | 12,355,028 |  |  | 12,356,576 |
| Polish Zloty | 123 | 16,810,989 | 34,794,605 |  | 51,605,717 |
| Russian Rouble |  | 433,417 |  |  | 433,417 |
| Singapore Dollar | 227,043 | 70,755,904 | 730,929 |  | 71,713,876 |
| South African Rand |  | 38,986,055 |  |  | 38,986,055 |
| South Korean Won | 2,802,539 | 207,667,100 | 102,856,892 | 6,636 | 313,333,167 |
| Swedish Krona | 437,438 | 59,181,065 | 25,492,847 | - | 85,111,350 |
| Swiss Franc | 3,476,432 | 345,588,322 |  |  | 349,064,754 |
| Thai Baht | 3,747,600 | 68,102,695 | - | - | 71,850,295 |
| Turkish Lira | 3,135 | 93,539,588 |  | - | 93,542,723 |
| Total subject to foreign currency risk | 68,454,294 | 5,225,509,946 | 976,572,090 | 1,858,360 | 6,272,394,690 |
| Investments in international securities payable in United States dollars | - | 1,050,366,276 | 610,945,618 | - | 1,661,311,894 |
| Total international investment securities (including domesti. securities payable in foreign currency) | 68,454,294 | 6,275,876,222 | 1,587,517,708 | 1,858,360 | 7,933,706,584 |
| Domestic investments (excluding securities payable in foreign currency) | - | 8,135,783,532 | 4,963,755,027 | $(5,365,777)$ | 13,094,172,782 |
| Total fair value | \$68,454,294 | \$14,411,659,754 | \$6,551,272,735 | (\$3,507,417) | \$21,027,879,366 |

In addition to the above, TRS's foreign currency investments in real estate and private equity were $\$ 260,358,904$ and $\$ 188,866,139$ at June 30, 2011 and 2010, respectively.

## 3. Securities Lending Program

The Board of Trustees' policies permit TRS to use investments to enter into securities lending transactions, which are loans of securities to broker-dealers or other entities. The borrower of the security must post collateral in excess of the fair value of the security. Agreements are in place for TRS to return the collateral in exchange for the original securities upon demand or when the security is no longer borrowed. TRS's master trustee is the primary lending agent for the plan's domestic securities for collateral of 102 percent of the fair value of U.S.
securities and non-U.S. fixed income securities and 105 percent of the fair value of non-U.S. equity securities, which may be reduced to 102 percent for matched currencies.

At year end, TRS has no credit risk exposure to borrowers because the amount TRS owes the borrowers exceeds the amount the borrowers owe TRS. The contract with TRS's lending agent requires the agent to indemnify TRS if the borrowers fail to return the securities (and if the collateral is inadequate to replace the securities lent) or fail to pay TRS for income distributions by the securities issuers while the securities are on loan. All securities loans can be terminated on demand either by TRS or the borrower, although the average term of the loans is 16 days.

The cash collateral received is invested in a separate account managed by the lending agent, which at year end has a weighted average maturity of 29 days. There were no significant violations of legal or contractual provisions, and there were no borrower or lending agent default losses known to the securities lending agent.

As of June 30, 2011 and June 30, 2010, TRS had outstanding loaned investment securities with a fair value of $\$ 3,132,542,532$ and $\$ 3,473,627,126$, respectively, against which it had received cash and non-cash collateral with a fair value of $\$ 3,217,193,460$ and $\$ 3,568,594,875$, respectively. Securities lending collateral reflected on the Statements of Plan Net Assets reflects the fair value of securities purchased with cash collateral. As of June 30, 2011 and 2010, these amounts were $\$ 3,064,369,064$ and $\$ 3,501,369,706$ respectively. TRS also reports the income earned and costs from securities lending activities on the Statements of Changes in Plan Net Assets.

## 4. Derivatives

TRS, through its investment managers, invests in derivative securities as a fundamental part of the overall investment process. All TRS derivatives are considered investments and the fair value is reported in the Statements of Plan Net Assets. TRS does not directly invest in derivatives but allows certain external managers to utilize these instruments within the investment portfolio for a variety of purposes. TRS managers may hold derivatives to hedge investment transactions accounted for at fair value. The term "hedge" in this context denotes the broad economic activity of entering into contracts intended to offset risks associated with certain transactions, such as the changes in interest rates on investments in debt securities, commodities or instruments denominated in a foreign currency. Assets and liabilities that are measured at fair value, such as investments, do not qualify as hedgeable items and do not meet the requirements for hedge accounting.

A derivative security is an investment whose return depends upon the value of another financial instrument or security such as stocks, bonds, commodities, or a market index. The derivative investments in TRS's portfolio are used primarily to enhance performance and reduce volatility. TRS's investments in derivatives are not leveraged through borrowing. In the case of an obligation to purchase (long a financial future or call option), the full value of the obligation is primarily held in cash or cash equivalents. For obligations to sell (short a financial future or put options), the reference security is held in the portfolio.

To varying degrees, derivative transactions involve credit risk, sometimes known as default or counterparty risk, and market risk. Credit risk is the possibility that a loss may occur because a party to a transaction fails to perform according to the established contract terms. To eliminate credit risk, derivative securities can be acquired through a clearinghouse that guarantees delivery and accepts the risk of default by either party.

Market risk is the possibility that a change in interest, currency, or other pertinent market rates will cause the value of a financial instrument to decrease or become more costly to settle. Imposing limits on the types, amounts, and degree of risk that investment managers may undertake regulates the market risk associated with the constantly fluctuating prices of derivatives. These limits are approved by the Board of Trustees and senior management, and the derivative positions of the investment managers are reviewed on a regular basis to monitor compliance.

At June 30, 2011, derivative investments included currency forward contracts, rights, warrants, futures, options, swaps, and swaptions. Within the financial statements, currency forward contracts are reflected as investment payables/receivables, rights and warrants are reflected as equities, and all futures, options, swaps and swaptions are classified as derivatives. The change in fair value of derivative investments is included in investment income on the Statements of Changes in Plan Net Assets.

The following tables summarize the derivatives held within the TRS investment portfolio and the change in fair value of derivative investments, realized and unrealized, during the fiscal year. The notional amounts shown represent TRS's financial exposure to these instruments in U.S. dollars.

As of June 30, 2011, the TRS investment portfolio held the following derivatives.

| Investment Derivatives | Fair Value at June 30, 2011 | Change in Fair Value | Shares/Par | Notional |
| :---: | :---: | :---: | :---: | :---: |
| Rights | \$256,860 | \$2,255,476 | 2,031,943 | \$2,031,943 |
| Warrants | 7,459,444 | 3,054,262 | 676,140 | 676,140 |
| Currency forwards | $(3,486,543)$ | $(366,715)$ |  |  |
| Equity index futures long |  | 84,094,926 | 449,085 | 43,985,473 |
| Fixed income futures long |  | 8,984,889 | 2,675,250,000 | 2,811,528,570 |
| Fixed income futures short |  | $(7,579,118)$ | $(21,000,000)$ | $(23,781,628)$ |
| Commodity futures long |  | 2,382,182 | 77,000 | 7,580,820 |
| Commodity futures short | - | 18,460 |  |  |
| U.S. equity put index options purchased | 1,721,558 | $(3,807,017)$ | 194,800 | 1,573,087 |
| U.S. equity put index options written | - | 1,455,731 |  |  |
| Currency forward put options purchased | 954,734 | $(595,023)$ | 47,220,000 | 6,062,074 |
| Currency forward put options written | (110) | 664,999 | $(3,800,000)$ | 399,912 |
| Currency forward call options purchased | 44,925 | 1,612 | 138,200,000 | 2,061,970 |
| Options on futures bought |  | $(1,201,628)$ |  |  |
| Options on futures written | $(119,338)$ | 1,911,079 | $(1,299,000)$ | 38,586,130 |
| Swaptions bought | 4,038,309 | 96,255 | 142,790,000 | 18,757,608 |
| Swaptions written | $(3,057,157)$ | 4,935,312 | $(434,300,000)$ | 81,386,375 |
| Inflation options written | $(64,588)$ | 214,220 | $(22,600,000)$ | 22,600,000 |
| Credit default swaps buying protection | 11,228 | 842,824 | 58,721,545 | 58,749,181 |
| Credit default swaps selling protection | 7,619,238 | 1,669,796 | 535,029,273 | 561,506,120 |
| Pay fixed interest rate swaps | $(2,739,647)$ | $(12,158,273)$ | 433,400,000 | 430,675,477 |
| Receive fixed interest rate swaps | 1,200,952 | 2,084,700 | 204,000,000 | 155,197,356 |
| Grand Totals | \$13,839,865 | \$88,958,949 |  | \$4,219,576,608 |

As of June 30, 2010, the TRS investment portfolio held the following derivatives.

| Investment Derivatives | Fair Value at <br> June 30, 2010 | Change in <br> Fair Value | Shares/Par | Notional |
| :--- | ---: | ---: | ---: | ---: |
| Rights | $\$ 862,895$ | $\$ 1,995,876$ | $6,120,046$ | $\$ 6,120,046$ |
| Warrants | $17,054,863$ | $14,466,580$ | $2,679,239$ | $2,679,239$ |
| Currency forwards | $15,985,601$ | $13,793,617$ | - | - |
| Equity index futures long | - | $94,251,519$ | 431,250 | $442,721,250$ |
| Equity stock index futures short | - | $(38,625)$ | - | - |
| Fixed income futures long | - | $44,787,811$ | $745,200,000$ | $824,133,108$ |
| Fixed income futures short | - | $(4,683,755)$ | $(134,750,000)$ | $(164,319,877)$ |


| (continued) Investment Derivatives | Fair Value at June 30, 2010 | Change in Fair Value | Shares/Par | Notional |
| :---: | :---: | :---: | :---: | :---: |
| Commodity futures short | \$- | (\$980) | - | \$- |
| U.S. equity put index options purchased | 972,000 | 311,741 | 54,000 | 581,508 |
| U.S. equity put index options written | $(2,051,550)$ | $(339,669)$ | $(42,300)$ | 1,716,534 |
| Currency forward put options purchased | 1,386,186 | $(268,700)$ | 46,020,000 | 8,478,138 |
| Currency forward put options written | $(1,279,068)$ | 65,288 | $(31,820,000)$ | 6,610,384 |
| Inflation options written | $(392,868)$ | $(87,388)$ | $(35,100,000)$ | 35,100,000 |
| Options on futures bought | 489,244 | $(3,926,582)$ | 279,827,000 | 284,031,892 |
| Options on futures written | $(87,375)$ | 2,798,004 | $(73,964,500)$ | 22,374,800 |
| Swaptions bought | 340,196 | $(8,677,262)$ | 36,390,000 | 36,390,000 |
| Swaptions written | $(4,113,619)$ | 8,640,073 | $(465,500,000)$ | 12,482,754 |
| Credit default swaps buying protection | $(57,332)$ | $(901,506)$ | 49,560,000 | 49,574,322 |
| Credit default swaps selling protection | $(1,791,827)$ | 7,947,954 | 221,335,911 | 219,805,767 |
| Pay fixed interest rate swaps | 114,032 | $(7,186,725)$ | 3,200,000 | 1,889,344 |
| Receive fixed interest rate swaps | 2,773,830 | 19,330,480 | 7,977,300,000 | 196,236,562 |
| Receive fixed inflation swaps | 190,734 | $(25,748)$ | 5,100,000 | 6,437,724 |
| Grand Totals | \$30,395,942 | \$182,252,003 |  | \$1,993,043,495 |

## Currency Forward Contracts

Objective: Currency forward contracts are agreements to exchange one currency for another at an agreedupon price and settlement date. TRS's investment managers use these contracts primarily to hedge the currency exposure of its investments.

Terms: Currency forward contracts are two-sided contracts in the form of either forward purchases or forward sales. Forward purchases obligate TRS to purchase specific currency at an agreed upon price. Forward sales obligate TRS to sell specific currency at an agreed upon price. At June 30, 2011, TRS had currency forward purchase or sale contracts for 25 different currencies with various settlement dates.

Fair Value: As of June 30, 2011 and June 30, 2010, TRS's open currency forward contracts had a net fair value of $(\$ 3,486,543)$ and $\$ 15,985,601$, respectively. The following table represents the unrealized gain/ (loss) on the contracts at June 30.

|  | As of <br> June 30, 2011 | As of <br> June 30, 2010 |
| :--- | ---: | ---: | ---: |
| Forward currency purchases | $\$ 2,080,108,512$ | $\$ 1,562,895,942$ |
| Forward currency sales | $\underline{(2,083,595,055)}$ | $(1,546,910,341)$ |
| Unrealized gain/(loss) | $\underline{(\$ 3,486,543)}$ | $\$ \mathbf{\$ 1 5 , 9 8 5 , 6 0 1}$ |

## Financial Futures

Objective: Financial futures are agreements to purchase or sell a specific amount of an asset at a specified delivery or maturity date for an agreed upon price. These derivative securities are used to improve yield, adjust the duration of the fixed income portfolio, circumvent changes in interest rates, or to replicate an index.

Terms: Futures contracts are standardized and traded on organized exchanges, thereby minimizing TRS's credit risk. As the daily market value of the futures contract varies from the original contract price, a gain or loss is recognized and paid to, or received from, the clearinghouse. As of June 30, 2011 and June 30, 2010, TRS had outstanding futures contracts with a notional value, or exposure, of $\$ 2,839,313,235$ and $\$ 1,102,534,481$, respectively. Notional values do not represent the actual values in the Statements of Plan Net Assets. The contracts have various expiration dates through June 2014.

Fair Value: Gains and losses on futures contracts are settled daily based on the change of the index or commodity price for the underlying notional value. Because of daily settlement, the futures contracts have no fair value. The realized gain on futures contracts was $\$ 66,874,716$ and $\$ 151,189,581$ during the fiscal years 2011 and 2010, respectively.

| Type | FY11 |  | FY10 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number of Contracts | Notional Principal | Number of Contracts | Notional Principal |
| Commodity Futures |  |  |  |  |
| Commodity futures - long | 77 | \$7,580,820 | - | \$- |
| Equity Futures |  |  |  |  |
| U.S. stock index futures - long | 297 | 19,535,175 | 7,973 | 442,721,250 |
| International equity index futures - long | 347 | 24,450,298 | - |  |
| Fixed Income/Cash Equivalent Futures |  |  |  |  |
| Fixed income index futures - long | 2,676 | 490,987,109 | 2,227 | 297,157,704 |
| Fixed income index futures - short | (125) | $(15,372,578)$ | (675) | $(80,743,149)$ |
| International fixed income index futures - long | 405 | 71,796,522 | 572 | 84,533,808 |
| International fixed income index futures - short | - | - | (450) | $(60,373,484)$ |
| Cash equivalent (Eurodollar) futures - long | 8,193 | 2,034,460,338 | 1,715 | 425,707,575 |
| Cash equivalent (Eurodollar) futures - short | (34) | $(8,409,050)$ | (80) | $(19,869,000)$ |
| Cash equivalent foreign yield curve - long | 604 | 214,284,601 | 84 | 16,734,021 |
| Cash equivalent foreign yield curve - short | - | - | (18) | $(3,334,244)$ |
| Total Futures (Net) | 12,440 | \$2,839,313,235 | 11,348 | \$1,102,534,481 |

## Financial Options

Objective: Financial options are agreements that give one party the right, but not the obligation, to buy or sell a specific amount of an asset for a specified price, called the strike price, on or before a specified expiration date. The owner (buyer) of an option has all the rights, while the seller (writer) of an option has the obligations of the agreement. As a writer of financial options, TRS receives a premium at the outset of the agreement and bears the risk of an unfavorable change in the price of the financial instrument underlying the option. Premiums received are recorded as a liability when the financial option is written. The Options Clearing Corporation (OCC) performs much the same sort of function for options markets as the clearinghouse does for futures markets.

Terms: As of June 30, 2011, the TRS investment portfolio held U.S. equity options with notional value of $\$ 1,573,087$, currency forward options with notional value of $\$ 8,523,956$, inflation options with notional value of $\$ 22,600,000$, and options on futures with underlying notional value of $\$ 38,586,130$. As of June 30,2010 , the TRS investment portfolio held U.S. equity options with notional value of $\$ 2,298,042$, currency forward options with notional value of $\$ 15,088,522$, inflation options with notional value of $\$ 35,100,000$, and options on futures with underlying notional value of $\$ 306,406,692$. Contractual principal/notional values do not represent the actual values in the Statements of Plan Net Assets. The contracts have various expiration dates through October 2020.

Fair Value: Fluctuations in the fair value of financial options are recognized in TRS's financial statements as incurred rather than at the time the options are exercised or at expiration. As of June 30, 2011 and June 30, 2010, the fair value of all option contracts, gross of premiums received, was $\$ 2,537,181$ and ( $\$ 963,431$ ), respectively. The fair value represents the amount needed to close all positions as of that date. The following table presents the aggregate contractual principal (notional value) of outstanding contracts at June 30, 2011 and June 30, 2010. Notional principal amounts are often used to express the volume of these transactions but do not reflect the extent to which positions may offset one another. Options on futures represent the corresponding futures exposure.

|  | FY11 |  |  | FY 10 |
| :--- | ---: | ---: | ---: | ---: | ---: |

## Swaptions

Objective: Swaptions are options on swaps that give the purchaser the right, but not the obligation, to enter into a swap at a specific date in the future. An interest-rate swaption gives the buyer the right to pay or receive a specified fixed rate in a swap in exchange for a floating rate for a stated time period. TRS has both written and purchased interest rate swaptions in its portfolio. In a written call swaption, the seller (writer) has the obligation to pay a fixed rate in exchange for a floating rate for a stated period of time and in a written put swaption, the seller has the obligation to receive a fixed rate in exchange for a floating rate if the swaption is exercised. A purchased (long) call swaption gives the buyer the right to receive a fixed rate in exchange for a floating rate for a stated period of time while a purchased (long) put swaption gives the buyer the right to pay a fixed rate in exchange for a floating rate if the swaption is exercised.

The TRS investment portfolio also holds credit default swaptions. A credit default swaption gives the holder the right, but not the obligation to buy (call) or sell (put) protection on a specified entity or index for a specified future time period.

As the writer of a swaption, TRS receives a premium at the outset of the agreement. Premiums are recorded as a liability when the swaption is written.

Terms: As of June 30, 2011, TRS had outstanding written call swaption exposure of $\$ 51,768,599$, written put swaption exposure of $\$ 29,617,776$, purchased put swaption exposure of $\$ 1,838,773$, and purchased call swaption exposure of $\$ 16,918,835$. The contracts have various maturity dates through November 2020. As of June 30, 2010, TRS had outstanding written call swaption exposure of $\$ 10,012,297$, written put swaption exposure of $\$ 2,470,457$, and purchased put swaption exposure of $\$ 36,390,000$. Exposure amounts for swaptions do not represent the actual values in the Statement of Plan Assets.

Fair Value: Fluctuations in the fair value of swaptions are recognized in TRS's financial statements as incurred rather than at the time the swaptions are exercised or when they expire. As of June 30, 2011, and June 30, 2010, the fair value of swaption contracts was $\$ 981,152$ and $(\$ 3,773,423)$, respectively.
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## Credit Default Swaps/Index Swaps

Objective: Credit default swaps are financial instruments used to replicate the effect of investing in debt obligations of corporate bond issuers as a means to manage bond exposure, effectively buying or selling insurance protection in case of default. Credit default swaps may be specific to an individual security or to a specific market sector (index swaps). The risk of the credit default/index swap is comparable to the credit risk of the underlying debt obligations of issuers that comprise the credit default/index swap, with the primary risk being counterparty risk. The owner/buyer of protection (long the swap) pays an agreed upon premium to the seller of protection (short the swap) for the right to sell the debt at a previously agreed upon value in the event of a default by the bond issuer. The premium is paid periodically over the term of the swap or until a credit event of the bond issuer occurs. In the event of a default, the swap is called, and the seller of protection makes a payment to the buyer, which is usually based on a fixed percentage of total par.

Purchased credit default swaps decrease credit exposure (buying protection), providing the right to sell debt to the counterparty in the event of a default. A buyer of credit protection against a basket of securities pays an upfront or periodic payment until either maturity or default. In the event of a default, the buyer receives a lump-sum payment. If no default occurs, the buyer loses only the premium paid.

Written credit default swaps increase credit exposure (selling protection), obligating the portfolio to buy debt from counterparties in the event of a default. A seller of credit protection against a basket of securities receives an upfront or periodic payment to compensate against potential default events. If a default event occurs, the seller must pay the buyer the full notional value of the obligation in exchange for the obligation. If no default occurs, the seller will have earned the premium paid.

Terms: As of June 30, 2011 , TRS had credit default/index swaps in its portfolio with various maturity dates through 2051. The total notional value of written credit default swaps (selling protection) was $\$ 561,506,120$ and $\$ 219,805,767$ at June 30,2011 and 2010 , respectively. The total notional value of purchased credit default swaps (buying protection) was $\$ 58,749,181$ and $\$ 49,574,322$ at June 30,2011 and 2010 , respectively.

Fair Value: The fair value of credit default swaps, including index swaps, held by TRS was $\$ 7,630,466$ as of June 30,2011 and ( $\$ 1,849,159$ ) as of June 30,2010 . This represents the amount due to or (from) TRS under the terms of the counterparty agreements.

## Interest Rate Swaps

Objective: Interest rate swaps are agreements between parties to exchange a set of cash flow streams over a period of time. In the most common type of interest rate swap arrangement, one party agrees to pay fixed interest payments on designated dates to a counterparty who, in turn, agrees to make return interest payments that float with some reference rate. Long-swap positions (receive fixed) increase exposure to long-term interest rates; short positions (pay fixed) decrease interest rate/risk exposure.

Terms: As of June 30, 2011 and June 30, 2010, TRS held interest rate swaps in various currencies with various expiration/maturity dates ranging from 2011 to 2044. Swap agreements typically are settled on a net basis, with a party receiving or paying only the net amount of the fixed/floating payments. Payments may be made at the conclusion of a swap agreement or periodically during its term.

Fair Value: The table below presents the fair value of TRS's interest rate swap exposure as of June 30, 2011 and June 30, 2010.

June 30, 2011
Payable/Receivable

June 30, 2010 Payable/Receivable
(\$2,739,647)
\$114,032
Receive floating/pay fixed
Receive fixed/pay floating

## Inflation-linked Swaps

Objective: Inflation-linked swaps are agreements where a fixed payment is exchanged for a variable payment linked to an inflation index. These swaps can protect against unfavorable changes in inflation expectations and are used to transfer inflation risk from one counterparty to another.

Terms: TRS was not a party to any inflation-linked swaps as of June 30, 2011. TRS was a party to inflationlinked swaps denominated in Euros with a maturity date of October 15, 2010 and total par of 5.1 million as of June 30, 2010. TRS receives a fixed rate for all current positions, reducing inflation risks in certain countries. Inflation-linked swaps initially have no net value; the value of the swap's outstanding payments will change as interest and inflation rates change. The value may be either positive or negative.

Fair value: TRS did not hold any inflation-linked swaps as of June 30, 2011. The June 30, 2010 fair value of inflation-linked swaps held was \$190,734.

## Derivative Interest Rate Risk

Interest rate risk for derivative securities is disclosed in Note D. 2. Both interest rate and inflation rate swaps have fair values that are sensitive to interest rate changes.

TRS had the following interest rate and inflation swaps at June 30, 2011.
Interest Rate and Inflation Swaps

| Asset Description | Par | Gross <br> Notional | TRS Receives | TRS Pays | Maturity <br> Date | Fair Value 6/30/11 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pay Fixed Interest Rate Swaps |  |  |  |  |  |  |
| Interest rate swap USD | 700,000 | \$695,813 | 3 mo . LIBOR | 2.50\% | 12/21/2016 | (\$4,187) |
| Interest rate swap USD | 2,200,000 | 2,197,997 | 3 mo . LIBOR | 3.50 | 12/21/2021 | $(2,002)$ |
| Interest rate swap USD | 11,900,000 | 11,776,231 | 3 mo . LIBOR | 4.00 | 12/21/2026 | $(123,769)$ |
| Interest rate swap USD | 8,100,000 | 8,051,552 | 3 mo . LIBOR | 2.50 | 12/21/2016 | $(48,448)$ |
| Interest rate swap USD | 13,400,000 | 13,153,215 | 3 mo . LIBOR | 3.25 | 12/21/2018 | $(246,785)$ |
| Interest rate swap USD | 238,600,000 | 238,563,983 | 3 mo . LIBOR | 0.75 | 6/30/2013 | $(36,017)$ |
| Interest rate swap USD | 3,500,000 | 3,731,544 | 3 mo . LIBOR | 3.16 | 2/15/2026 | 230,378 |
| Interest rate swap USD | 5,200,000 | 5,325,216 | 3 mo . LIBOR | 2.00 | 8/15/2017 | 123,484 |
| Interest rate swap USD | 3,900,000 | 3,983,590 | 3 mo . LIBOR | 3.96 | 5/15/2037 | 83,590 |
| Interest rate swap USD | 15,100,000 | 15,211,505 | 3 mo . LIBOR | 4.60 | 7/1/2044 | 111,505 |
| Interest rate swap USD | 4,000,000 | 3,872,11 | 3 mo . LIBOR | 4.25 | 6/15/2041 | $(128,328)$ |
| Interest rate swap USD | 500,000 | 484,014 | 3 mo . LIBOR | 4.25 | 6/15/2041 | $(16,041)$ |
| Interest rate swap USD | 200,000 | 195,667 | 3 mo . LIBOR | 3.50 | 6/15/2021 | $(4,355)$ |
| Interest rate swap USD | 47,400,000 | 45,884,521 | 3 mo . LIBOR | 4.25 | 6/15/2041 | $(1,520,682)$ |
| Interest rate swap USD | 17,600,000 | 17,037,291 | 3 mo . LIBOR | 4.25 | 6/15/2041 | $(564,641)$ |
| Interest rate swap USD | 5,600,000 | 5,420,955 | 3 mo . LIBOR | 4.25 | 6/15/2041 | $(179,659)$ |
| Interest rate swap USD | 7,400,000 | 7,163,406 | 3 mo . LIBOR | 4.25 | 6/15/2041 | $(237,406)$ |
| Interest rate swap USD | 2,000,000 | 1,936,056 | 3 mo . LIBOR | 4.25 | 6/15/2041 | $(64,164)$ |
| Interest rate swap USD | 100,000 | 96,803 | 3 mo . LIBOR | 4.25 | 6/15/2041 | $(3,208)$ |
| Interest rate swap USD | 300,000 | 290,408 | 3 mo . LIBOR | 4.25 | 6/15/2041 | $(9,625)$ |
| Interest rate swap USD | 100,000 | 97,833 | 3 mo . LIBOR | 3.50 | 6/15/2021 | $(2,178)$ |
| Interest rate swap USD | 1,100,000 | 1,076,166 | 3 mo . LIBOR | 3.50 | 6/15/2021 | $(23,955)$ |
| Interest rate swap USD | 2,800,000 | 2,739,331 | 3 mo . LIBOR | 3.50 | 6/15/2021 | $(60,976)$ |
| Interest rate swap USD | 5,700,000 | 5,517,759 | 3 mo . LIBOR | 4.25 | 6/15/2041 | $(182,867)$ |
| Interest rate swap USD | 2,700,000 | 2,641,498 | 3 mo . LIBOR | 3.50 | 6/15/2021 | $(58,798)$ |
| Interest rate swap USD | 300,000 | 290,408 | 3 mo . LIBOR | 4.25 | 6/15/2041 | $(9,625)$ |
| Interest rate swap USD | 3,100,000 | 3,032,831 | 3 mo . LIBOR | 3.50 | 6/15/2021 | $(67,509)$ |
| Interest rate swap USD | 3,800,000 | 3,714,581 | 3 mo . LIBOR | 3.00 | 6/15/2018 | $(85,836)$ |
| Interest rate swap USD | 5,100,000 | 4,936,942 | 3 mo . LIBOR | 4.25 | 6/15/2041 | $(163,618)$ |
| Interest rate swap USD | 15,200,000 | 15,662,987 | 3 mo . LIBOR | 4.00 | 12/21/2041 | 462,987 |
| Interest rate swap USD | 3,900,000 | 4,018,793 | 3 mo . LIBOR | 4.00 | 12/21/2041 | 118,793 |
| Interest rate swap USD | 200,000 | 206,092 | 3 mo . LIBOR | 4.00 | 12/21/2041 | 6,092 |
| Interest rate swap USD | 100,000 | 103,046 | 3 mo . LIBOR | 4.00 | 12/21/2041 | 3,046 |
| Interest rate swap USD | 1,600,000 | 1,565,332 | 3 mo . LIBOR | 3.50 | 6/15/2021 | $(34,843)$ |

Total Pay Fixed Interest

| Asset Description | Par | Gross <br> Notional | TRS <br> Receives | $\begin{aligned} & \text { TRS } \\ & \text { Pays } \\ & \hline \end{aligned}$ | Maturity <br> Date | Fair Value 6/30/11 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Receive Fixed Interest Rate Swaps |  |  |  |  |  |  |
| Interest rate swap USD | 6,100,000 | \$6,212,343 | 3.25\% | $3 \mathrm{mo}$. LIBOR | 12/21/2018 | \$112,342 |
| Interest rate swap USD | 7,000,000 | 7,181,058 | 4.25 | 3 mo . LIBOR | 12/21/2031 | 181,058 |
| Interest rate swap USD | 8,200,000 | 7,843,638 | 2.56 | 3 mo . LIBOR | 10/20/2020 | $(397,764)$ |
| Interest rate swap USD | 27,100,000 | 26,952,104 | 4.48 | 3 mo . LIBOR | 7/1/2024 | $(147,896)$ |
| Interest rate swap USD | 900,000 | 893,131 | 1.25 | 3 mo . LIBOR | 12/21/2014 | $(6,869)$ |
| Interest rate swap MXN | 1,100,000 | 94,565 | 6.50 | 4 wk. Mexican TIIE | 3/5/2013 | 764 |
| Interest rate swap BRL | 800,000 | 554,327 | 12.54 | 3 mo . Brazilian CDI | 1/2/2012 | 42,245 |
| Interest rate swap BRL | 900,000 | 623,617 | 12.54 | 3 mo . Brazilian CDI | 1/2/2012 | 47,526 |
| Interest rate swap BRL | 1,800,000 | 1,247,235 | 12.54 | 3 mo . Brazilian CDI | 1/2/2012 | 95,051 |
| Interest rate swap EUR | 100,000 | 144,985 | 3.50 | 6 mo . EURIBOR | 9/21/2021 | (282) |
| Interest rate swap BRL | 100,000 | 74,731 | 14.77 | 3 mo . Brazilian CDI | 1/2/2012 | 10,720 |
| Interest rate swap BRL | 2,900,000 | 1,847,363 | 11.29 | 3 mo . Brazilian CDI | 1/2/2012 | $(8,933)$ |
| Interest rate swap EUR | 300,000 | 434,955 | 3.50 | 6 mo . EURIBOR | 9/21/2021 | (845) |
| Interest rate swap EUR | 5,400,000 | 7,844,396 | 3.50 | 6 mo . EURIBOR | 9/21/2021 | 15,211 |
| Interest rate swap BRL | 600,000 | 389,037 | 10.84 | 3 mo. Brazilian CDI | 1/2/2012 | 4,976 |
| Interest rate swap EUR | 100,000 | 144,985 | 3.50 | 6 mo . EURIBOR | 9/21/2021 | (282) |
| Interest rate swap EUR | 200,000 | 289,970 | 3.50 | 6 mo . EURIBOR | 9/21/2021 | (563) |
| Interest rate swap BRL | 500,000 | 373,653 | 14.77 | 3 mo. Brazilian CDI | 1/2/2012 | 53,602 |
| Interest rate swap EUR | 1,600,000 | 2,319,758 | 3.50 | 6 mo . EURIBOR | 9/21/2021 | $(4,507)$ |
| Interest rate swap BRL | 1,000,000 | 636,590 | 11.25 | 3 mo . Brazilian CDI | 1/2/2012 | $(3,512)$ |
| Interest rate swap BRL | 900,000 | 585,970 | 12.17 | 3 mo . Brazilian CDI | 1/2/2013 | 9,879 |
| Interest rate swap BRL | 1,400,000 | 929,208 | 11.60 | 3 mo . Brazilian CDI | 1/2/2012 | 33,065 |
| Interest rate swap BRL | 300,000 | 199,557 | 11.67 | 3 mo . Brazilian CDI | 1/2/2012 | 7,526 |
| Interest rate swap BRL | 700,000 | 457,917 | 11.14 | 3 mo . Brazilian CDI | 1/2/2012 | 9,846 |
| Interest rate swap BRL | 1,100,000 | 712,586 | 10.99 | 3 mo . Brazilian CDI | 1/2/2012 | 8,474 |
| Interest rate swap BRL | 700,000 | 453,464 | 10.99 | 3 mo . Brazilian CDI | 1/2/2012 | 5,392 |
| Interest rate swap BRL | 73,000,000 | 47,584,633 | 11.36 | 3 mo . Brazilian CDI | 1/2/2012 | 857,187 |
| Interest rate swap BRL | 6,900,000 | 4,589,804 | 11.67 | 3 mo . Brazilian CDI | 1/2/2012 | 173,100 |
| Interest rate swap BRL | 200,000 | 132,280 | 12.65 | 3 mo . Brazilian CDI | 1/2/2014 | 4,259 |
| Interest rate swap BRL | 100,000 | 65,838 | 12.54 | 3 mo . Brazilian CDI | 1/2/2014 | 1,828 |
| Interest rate swap BRL | 3,200,000 | 2,091,246 | 12.29 | 3 mo . Brazilian CDI | 1/2/2013 | 42,919 |
| Interest rate swap BRL | 1,500,000 | 969,864 | 11.98 | 3 mo . Brazilian CDI | 1/2/2013 | 9,711 |
| Interest rate swap BRL | 500,000 | 322,400 | 11.42 | 3 mo . Brazilian CDI | 1/2/2012 | 2,349 |
| Interest rate swap BRL | 1,500,000 | 966,620 | 11.88 | 3 mo . Brazilian CDI | 1/2/2013 | 6,467 |
| Interest rate swap BRL | 200,000 | 129,101 | 12.11 | 3 mo . Brazilian CDI | 1/2/2014 | 1,081 |
| Interest rate swap BRL | 16,600,000 | 10,529,805 | 11.94 | 3 mo . Brazilian CDI | 1/2/2014 | $(95,888)$ |
| Interest rate swap BRL | 18,100,000 | 11,658,090 | 11.91 | 3 mo . Brazilian CDI | 1/2/2013 | 72,244 |
| Interest rate swap BRL | 6,200,000 | 3,999,825 | 11.89 | 3 mo . Brazilian CDI | 1/2/2013 | 31,193 |
| Interest rate swap BRL | 2,300,000 | 1,483,806 | 11.89 | 3 mo . Brazilian CDI | 1/2/2013 | 11,572 |
| Interest rate swap BRL | 200,000 | 130,034 | 12.25 | 3 mo . Brazilian CDI | 1/2/2014 | 2,013 |
| Interest rate swap BRL | 1,300,000 | 843,514 | 12.07 | 3 mo . Brazilian CDI | 1/2/2013 | 11,381 |
| Interest rate swap BRL | 400,000 | 259,353 | 12.20 | 3 mo . Brazilian CDI | 1/2/2014 | 3,312 |
| Total Receive Fixed Interest Rate Swaps: |  | 155,197,356 |  |  |  | \$1,200,952 |

CDI - Cetip Interbank Deposit (interbank lending rate)
EURIBOR - Euro Interbank Offer Rate
LIBOR - London Interbank Offered Rate
TIIE - Mexico Interbank Equilibrium Interest Rate

TRS had the following interest rate and inflation swaps at June 30, 2010.

|  |  | Gross | TRS |  | Maturity |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Asset Description | Par | Notional | Receives | TRS Pays | Datue |

Pay Fixed Interest Rate Swaps:

Interest rate swap BRL
Total Pay Fixed Interes
Rate Swaps:
Receive Fixed Interest
Rate Swaps:
Interest rate swap KRW Interest rate swap KRW Interest rate swap AUD Interest rate swap AUD Interest rate swap AUD Interest rate swap USD Interest rate swap USD Interest rate swap USD Interest rate swap USD Interest rate swap USD Interest rate swap USD Interest rate swap USD Interest rate swap USD Interest rate swap USD Interest rate swap USD Interest rate swap USD Interest rate swap USD Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL Interest rate swap BRL

3,899,000,000
3,789,000,000
3,600,000
2,500,000
11,700,000
16,500,000
4,700,000
2,600,000 500,000 600,000 900,000 800,000
13,500,000
3,400,000
3,600,000 800,000 300,000
1,500,000
5,700,000
4,100,000
1,800,000
1,500,000 100,000
7,400,000
1,300,000
1,200,000 800,000
2,100,000
11,700,000
1,400,000 300,000
8,000,000
9,400,000
1,700,000
2,100,000
84,200,000
6,900,000
1,800,000
9,200,000
5,600,000
3,200,000
1,500,000 500,000 900,000
1,500,000 200,000 400,000
7,800,000
6,800,000

3 mo. Brazilian
\$1,889,344
CDI
\$1,889,344
$1 / 2 / 2012$
$\$ 114,032$
\$114,032

| \$3,205,159 | 2.82\% | 3 mo. KWCDC | 1/28/2011 | \$3,246 |
| :---: | :---: | :---: | :---: | :---: |
| 3,1 14,788 | 2.83 | 3 mo . KWCDC | 1/28/2011 | 3,389 |
| 3,103,048 | 6.00 | $6 \mathrm{mo} . \mathrm{BB}$ Australian | 9/15/2012 | 62,308 |
| 2,108,407 | 4.50 | 3 mo . BB Australian | 6/15/2011 | $(7,384)$ |
| 9,867,343 | 4.50 | 3 mo . BB Australian | 6/15/2011 | $(34,556)$ |
| 16,739,615 | 2.00 | 3 mo . LIBOR | 12/15/2012 | 239,615 |
| 4,845,941 | 3.00 | 3 mo. LIBOR | 12/15/2015 | 145,941 |
| 2,680,733 | 3.00 | 3 mo. LIBOR | 12/15/2015 | 80,733 |
| 515,526 | 3.00 | 3 mo. LIBOR | 12/15/2015 | 15,526 |
| 618,631 | 3.00 | 3 mo. LIBOR | 12/15/2015 | 18,631 |
| 927,946 | 3.00 | 3 mo. LIBOR | 12/15/2015 | 27,946 |
| 824,841 | 3.00 | 3 mo . LIBOR | 12/15/2015 | 24,841 |
| 13,696,048 | 2.00 | 3 mo. LIBOR | 12/15/2012 | 196,048 |
| 3,505,574 | 3.00 | 3 mo. LIBOR | 12/15/2015 | 105,574 |
| 3,933,693 | 4.00 | 3 mo. LIBOR | 12/16/2014 | 327,693 |
| 875,810 | 4.00 | 3 mo . LIBOR | 6/16/2015 | 74,477 |
| 328,095 | 4.00 | 3 mo . LIBOR | 6/16/2015 | 27,929 |
| 800,090 | 10.58 | 3 mo . Brazilian CDI | 1/2/2012 | $(32,088)$ |
| 3,229,738 | 12.70 | 3 mo. Brazilian CDI | 1/2/2014 | 67,464 |
| 2,420,722 | 12.54 | 3 mo. Brazilian CDI | 1/2/2012 | 146,104 |
| 1,062,756 | 12.54 | 3 mo. Brazilian CDI | 1/2/2012 | 64,143 |
| 831,482 | 11.63 | 3 mo. Brazilian CDI | 1/2/2012 | 1695 |
| 63,290 | 14.77 | 3 mo . Brazilian CDI | 1/2/2012 | 7,812 |
| 4,186,267 | 12.83 | 3 mo. Brazilian CDI | 1/2/2013 | 80,859 |
| 723,707 | 10.84 | 3 mo . Brazilian CDI | 1/2/2012 | 2,486 |
| 668,037 | 10.84 | 3 mo. Brazilian CDI | 1/2/2012 | 2,295 |
| 497,447 | 14.77 | 3 mo. Brazilian CDI | 1/2/2012 | 53,619 |
| 1,179,083 | 12.17 | 3 mo. Brazilian CDI | 1/2/2013 | 14,034 |
| 6,570,940 | 12.18 | 3 mo. Brazilian CDI | 1/2/2013 | 79,955 |
| 795,906 | 11.60 | 3 mo . Brazilian CDI | 1/2/2012 | 19,207 |
| 170,893 | 11.67 | 3 mo. Brazilian CDI | 1/2/2012 | 4,457 |
| 4,391,414 | 11.14 | 3 mo . Brazilian CDI | 1/2/2012 | $(46,866)$ |
| 5,275,226 | 11.14 | 3 mo. Brazilian CDI | 1/2/2012 | 60,247 |
| 945,837 | 10.99 | 3 mo . Brazilian CDI | 1/2/2012 | 2,703 |
| 1,168,387 | 10.99 | 3 mo. Brazilian CDI | 1/2/2012 | 3,338 |
| 47,044,837 | 11.36 | 3 mo. Brazilian CDI | 1/2/2012 | 331,940 |
| 3,930,533 | 11.67 | 3 mo. Brazilian CDI | 1/2/2012 | 102,517 |
| 1,028,968 | 12.65 | 3 mo. Brazilian CDI | 1/2/2014 | 30,355 |
| 5,231,818 | 12.51 | 3 mo . Brazilian CDI | 1/2/2014 | 127,796 |
| 3,188,038 | 12.54 | 3 mo. Brazilian CDI | 1/2/2014 | 81,242 |
| 1,802,759 | 12.29 | 3 mo . Brazilian CDI | 1/2/2013 | 27,447 |
| 836,956 | 11.98 | 3 mo. Brazilian CDI | 1/2/2013 | 4,778 |
| 277,113 | 11.42 | 3 mo. Brazilian CDI | 1/2/2012 | (280) |
| 498,492 | 11.39 | 3 mo. Brazilian CDI | 1/2/2012 | (815) |
| 834,435 | 11.88 | 3 mo . Brazilian CDI | 1/2/2013 | 2,258 |
| 111,848 | 12.11 | 3 mo . Brazilian CDI | 1/2/2014 | 891 |
| 224,881 | 12.59 | 3 mo. Brazilian CDI | 1/2/2013 | 2,967 |
| 4,343,402 | 11.89 | 3 mo . Brazilian CDI | 1/2/2013 | 16,079 |
| 3,786,555 | 11.89 | 3 mo. Brazilian CDI | 1/2/2013 | 14,017 |


| Asset Description | Par | Gross <br> Notional | TRS <br> Receives | TRS Pays | Maturity Date | Fair Value $6 / 30 / 10$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Receive Fixed Interest |  |  |  |  |  |  |
| Rate Swaps: |  |  |  |  |  |  |
| Interest rate swap BRL | 200,000 | \$ 112,576 | 12.25\% | 3 mo. Brazilian CDI | 1/2/2014 | \$1,619 |
| Interest rate swap BRL | 1,600,000 | 895,586 | 12.07 | 3 mo. Brazilian CDI | 1/2/2013 | 7,930 |
| Interest rate swap BRL | 12,500,000 | 6,950,487 | 11.90 | 3 mo. Brazilian CDI | 1/2/2013 | 15,675 |
| Interest rate swap BRL | 1,000,000 | 560,668 | 12.48 | 3 mo. Brazilian CDI | 1/2/2013 | 5,882 |
| Interest rate swap BRL | 400,000 | 224,594 | 12.20 | 3 mo. Brazilian CDI | 1/2/2014 | 2,680 |
| Interest rate swap BRL | 15,000,000 | 8,479,596 | 12.80 | 3 mo. Brazilian CDI | 1/2/2013 | 157,821 |
| Total Receive Fixed Interest Rate Swaps: |  | \$196,236,562 |  |  |  | \$2,773,830 |
| Receive Fixed Inflationlinked Swaps |  |  |  |  |  |  |
| Inflation swap EUR | 1,300,000 | \$1,641,477 | 2.10\% | France CPI Ex-Tobacco | 10/15/2010 | \$49,107 |
| Inflation swap EUR | 3,800,000 | 4,796,247 | 2.09 | France CPI Ex-Tobacco | 10/15/2010 | 141,627 |
| Total Receive Fixed Inflation-linked Swaps: |  | \$6,437,724 |  |  |  | \$190,734 |

CDI - Cetip Interbank Deposit (interbank lending rate)
BB - Bank Bill Swap Reference Rate (Australian financial market)
LIBOR - London Interbank Offered Rate
KWCDC - Korean Won Certificate of Deposit

## Derivative Credit Risk

Exchange traded derivatives are evaluated within the investment risk disclosure. Non-exchange traded derivative instruments may expose TRS to credit/counterparty risk. To minimize TRS's exposure to potential loss related to credit risk, TRS's policy requires all counterparties utilized by its external investment managers to have a minimum credit rating of A3/A- (Moody's/S\&P) and above average market capitalizations.

The terms of non-exchange traded derivatives transactions are specified in standardized counterparty agreements such as International Swaps and Derivatives Association (ISDA) agreements for swaps, master agreements for non-exchange traded options, and forward agreements for forward settlement transactions. TRS utilizes its investment managers' composite ISDA agreements, which cover multiple clients, to participate in specific market transactions. Because the counterparty risk of a security will fluctuate with market movements, all TRS managers using non-exchange traded derivatives operate a collateral call process ensuring full collateralization of these derivatives. TRS does not have a policy regarding master netting arrangements.

As of June 30, 2011 and June 30, 2010, the aggregate fair value of non-exchange traded derivative instruments in asset positions was $\$ 44,360,684$ and $\$ 59,624,201$, respectively. This represents the maximum loss that would be recognized at the reporting date if all counterparties failed to perform as contracted.

Counterparty Ratings for Non-Exchange Traded Derivatives

| Moody's Quality Rating | Market Values at $6 / 30 / 11$ | Market Values at 6/30/10 |
| :---: | :---: | :---: |
| Aaa | \$- | \$210,866 |
| Aal | 3,812,411 | 6,581,149 |
| Aa 2 | 1,083,333 | 4,223,437 |
| Aa3 | 24,440,890 | 40,676,499 |
| A1 | 11,957,448 | 6,477,194 |
| A2 | 3,066,602 | 1,448,420 |
| NA | - | 6,636 |
| Total subject to credit risk | \$44,360,684 | \$59,624,201 |
|  | FI | Page 47 |

Although the derivative instruments held within the TRS investment portfolio are executed with various counterparties, approximately 85 percent of the net market value exposure to credit risk is for non-exchanged traded derivative contracts held with six counterparties.

## E. Reserves

TRS maintains statutory reserve accounts in accordance with the provisions of 40 ILCS 5/16-101 et seq. In 1997, the Illinois General Assembly passed legislation that allowed the crediting of income at fair value, as opposed to book value, to the Benefit Trust Reserve.

## 1. Benefit Trust

This reserve serves as a clearing account for TRS income and expenses. The reserve is credited with contributions from the State of Illinois that are not specifically allocated to the Minimum Retirement Annuity Reserve, member and employer contributions, income from TRS invested assets, and contributions from annuitants who qualify for automatic annual increases in annuity.

The reserve accumulates, with 6 percent interest, the contributions by members prior to retirement. Contributions have been 7.5 percent of salary since July 1,1998. Contributions are fully refundable upon withdrawal from TRS, excluding interest credited thereon. The interest accrued is refundable only in the event of death. Interest is credited as of the date of retirement or death of those retiring or dying during the year and as of the end of the fiscal year for all other members. Interest is computed annually based upon the individual member's balance in the reserve at the beginning of the fiscal year.

This reserve is charged for transfers to the Minimum Retirement Annuity Reserve and all

- refunds to withdrawing members,
- retirement annuity payments (except as provided by the Minimum Retirement Annuity Reserve),
- benefits that are paid to disabled members,
- death benefits paid, and
- refunds to annuitants for survivor benefit contributions.

The expected benefit payments do not equal the present value of the reserve. The additional amount needed (the unfunded actuarial accrued liability) as calculated by the actuary was \$43,529,992,000 in 2011 and $\$ 39,854,106,000$ in 2010.

## 2. Minimum Retirement Annuity

## Balances at June 30

The minimum annuity is set by law at $\$ 25$ per month for each year of creditable service to a maximum of $\$ 750$ per month after 30 or more years of creditable service. To qualify, annuitants are required to make a one-time contribution that is credited to the reserve. Interest at 6 percent is credited to the reserve annually based upon the average reserve balance. For FY11 and FY10, the necessary amount to pay benefits was received from general obligation bonds issued by the state. All benefits paid under this program are charged to the reserve. This reserve is fully funded.

## F. Pension and Other Post-employment Benefits for TRS Employees

TRS employees are covered by either the State Employees' Retirement System of Illinois or the Teachers' Retirement System of the State of Illinois. Also, most employees are eligible for other types of post-employment benefits.

## State Employees' Retirement System (SERS)

## 1. Plan Description for SERS

TRS employees who do not participate in TRS are covered by the State Employees' Retirement System (SERS), a pension trust fund in the State of Illinois reporting entity. SERS is a single-employer defined benefit public employee retirement system. SERS provides retirement, disability, and death benefits to plan members and beneficiaries. Automatic annual post-retirement increases are provided. SERS is governed by Article 14 of the Illinois pension code, 5 ILCS 40/14-101 and following as well as the Illinois Administrative Code, Title 80, Subtitle D, Chapter I. SERS issues a publicly available financial report that includes financial statements and required supplemental information. It may be obtained at www.state.il.us/srs or by writing to SERS at 2101 South Veterans Parkway, Springfield, Illinois, 62794-9255. SERS's financial position and results of operations are also included in the State of Illinois Comprehensive Annual Financial Report. This report may be obtained at www.ioc.state.il.us, or by writing to the Office of the Comptroller, Financial Reporting Department, 325 West Adams Street, Springfield, Illinois, 62704-1858.

## 2. Funding Policy for SERS

The contribution requirements of SERS members and the state are established by state statute and may be amended by action of the General Assembly and the Governor. TRS employees covered by SERS contribute 4.0 percent of their annual covered salaries. The state contribution rate for the years ended June 30, 2011, 2010 and 2009 were actuarially determined according to a statutory schedule.

TRS contribution rates to SERS for its SERS-covered employees for the years ended June 30, 2011, 2010, and 2009 were 27.988 percent, 28.377 percent, and 21.049 percent, respectively. TRS contributions for the years ended June 30, 2011,2010 , and 2009 were $\$ 1,615,531, \$ 1,648,041$, and $\$ 1,168,335$, respectively.

## Teachers' Retirement System (TRS)

## 1. Plan Description for TRS

A summary description of the TRS plan can be found within these notes to the financial statements at "A. Plan Description."

## 2. Funding Policy for TRS

TRS employees who participate in TRS are required to contribute 9.4 percent of their annual covered salaries. For employees who were members of TRS on August 17,2001 and for employees hired on or after that date, TRS contributes 0.58 percent of the employees' annual covered salaries. Additional employer contributions for these employees are paid by the state of Illinois and are included in the annual state contribution to TRS. TRS's contributions for participating employees for the years ended June 30 in 2011,2010, and 2009 were $\$ 79,676$. $\$ 19,296$, and $\$ 19,903$, respectively. These amounts represent 100 percent of the required contributions.

## Other Post-employment Benefits for TRS Employees

The state provides health, dental, vision, and life insurance benefits for retirees and their dependents in a program administered by the Department of Healthcare and Family Services along with the Department of Central Management Services. Substantially all state employees become eligible for post-employment benefits if they eventually become annuitants of one of the state-sponsored pension plans. Health, dental, and vision benefits include basic benefits for annuitants and dependents under the state's self-insurance plan and insurance contracts currently in force. Annuitants may be required to contribute towards health, dental, and vision benefits with the amount based on factors such as date of retirement, years of credited service with the state, whether the annuitant is covered by Medicare, and whether the annuitant has chosen a managed health care
plan. Employees of the system who retired before January 1, 1998 and are vested in either SERS or TRS do not contribute towards health and vision benefits. A premium is required for dental. For annuitants who retired on or after January 1, 1998, the annuitant's contribution amount is reduced 5 percent for each year of credited service with the state allowing those annuitants with 20 or more years of credited service to not have to contribute towards health and vision benefits. A premium is required for dental. Annuitants also receive life insurance coverage equal to the annual salary of the last day of employment until age 60, at which time the benefit becomes $\$ 5,000$.

The state pays the TRS portion of employer costs for the benefits provided. The total cost of the state's portion of health, dental, vision, and life insurance benefits of all members, including post-employment health, dental, vision, and life insurance benefits, is recognized as an expenditure by the state in the Illinois Comprehensive Annual Financial Report. The state finances the costs on a pay-as-you-go basis. The total costs incurred for health, dental, vision, and life insurance benefits are not separated by department or component unit for annuitants and their dependents nor active employees and their dependents.

A summary of post-employment benefit provisions, changes in benefit provisions, employee eligibility requirements including eligibility for vesting, and the authority under which benefit provisions are established are included as an integral part of the financial statements of the Department of Healthcare and Family Services. A copy of the financial statements of the Department of Healthcare and Family Services may be obtained by writing to the Department of Healthcare and Family Services, 201 South Grand Ave., Springfield, Illinois, 62763-3838.

## G. Subsequent Events (Unaudited)

The System has suffered a decline in its investment portfolio subsequent to June 30, 2011. As of October 31, 2011, the market value of the assets has declined approximately $\$ 2.004$ billion or 5.4 percent. These numbers represent the most current available information for both public and private market investments as compared to June 30, 2011. The decline in asset values is the result of a continued worldwide economic slowdown.

## REQUIRED SUPPLEMENTARY INFORMATION

Schedule of Funding Progress ${ }^{1}$

| Actuarial Valuation Date | Actuarial Value of Assets* (a) | Accrued Liability (AAL-Projected Unit Credit) | Unfunded Actuarial |  | ag |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Funded | d Liability | d | ered |
|  |  |  | Ratio |  | Payroll | Payroll |
|  |  |  | (a)/(b) | (b) - (a) | (c) | (b-a)/(c) |
| 6/30/02 | \$22,366,285,000 | \$43,047,674,000 | 52.0\% | \$20,681,389,000 | \$6,785,236,000 | 304.8\% |
| 6/30/03 | 23,124,823,000 | 46,933,432,000 | 49.3 | 23,808,609,000 | 7,059,032,000 | 337.3 |
| 6/30/04 | 31,544,729,000 | 50,947,451,000 | 61.9 | 19,402,722,000 | 7,280,795,000 | 266.5 |
| 6/30/05 | 34,085,218,000 | 56,075,029,000 | 60.8 | 21,989,811,000 | 7,550,510,000 | 291.2 |
| 6/30/06 | 36,584,889,000 | 58,996,913,000 | 62.0 | 22,412,024,000 | 7,765,752,000 | 288.6 |
| 6/30/07 | 41,909,318,000 | 65,648,395,000 | 63.8 | 23,739,077,000 | 8,149,849,000 | 291.3 |
| 6/30/08 | 38,430,723,000 | 68,632,367,000 | 56.0 | 30,201,644,000 | 8,521,717,000 | 354.4 |
| 6/30/09 | 38,026,044,000 | 73,027,198,000 | 52.1 | 35,001,154,000 | 8,945,021,000 | 391.3 |
| 6/30/10 | 37,439,092,000 | 77,293,198,000 | 48.4 | 39,854,106,000 | 9,251,139,000 | 430.8 |
| 6/30/11 | 37,769,753,000 | 81,299,745,000 | 46.5 | 43,529,992,000 | 9,205,603,000 | 472.9 |

## Schedule of Contributions from Employers and Other Contributing Entities ${ }^{1}$

| Year Ended June 30 | State Contributions ${ }^{2}$ | Federal and Employer Contributions ${ }^{2}$ | Total | Annual Required Contribution per GASB Statement \#25 | Percentage Contributed | nual Required Contribution per State Statute | Percentage Contributed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2002 | \$810,619,000 | \$51,270,000 | \$861,889,000 | \$1,163,262,000 | 74.1\% | \$872,283,000 | 98.8\% |
| 2003 | 926,066,000 | 44,779,000 | 970,845,000 | 1,427,519,000 | 68.0 | 963,858,000 | 100.7 |
| 2004 | 1,028,259,000 | 75,078,000 | 1,103,337,000 | 1,716,977,000 | 64.3 | 1,100,264,000 | 100.3 |
| 2005 | 903,928,000 | 83,434,000 | 987,362,000 | 1,683,212,000 | 58.7 | 986,269,000 | 100.1 |
| 2006 | 531,828,000 | 69,645,000 | 601,473,000 | 1,679,524,000 | 35.8 | 601,555,000 | 100.0 |
| 2007 | 735,515,000 | 81,155,000 | 816,670,000 | 2,052,396,000 | 39.8 | 822,890,000 | 99.2 |
| 2008 | 1,039,195,000 | 130,578,000 | 1,169,773,000 | 1,949,463,000 | 60.0 | 1,135,127,000 | 103.1 |
| 2009 | 1,449,889,000 | 151,716,000 | 1,601,605,000 | 2,109,480,000 | 75.9 | 1,556,737,000 | 102.9 |
| 2010 | 2,079,129,000 | 170,653,000 | 2,249,782,000 | 2,481,914,000 | 90.6 | 2,217,053,000 | 101.5 |
| 2011 | 2,169,518,000 | 154,150,000 | 2,323,668,000 | 2,743,221,000 | 84.7 | 2,293,321,000 | 101.3 |

1 For consistency with figures reported by TRS's actuaries, the amounts have been rounded to the nearest thousand. Actual contributions varied slightly from contributions that are required by statute mainly because of differences between estimated and actual federal contributions. Beginning in FYO8, lump-sum payments for ERO are included as employer contributions, further increasing the difference.
Pension obligation bonds are not treated as a state contribution in FYO4 because they do not count towards the annual funding requirement calculated by the actuary. In FYO3, the annual contribution required per state statute is the state funding requirement certified after Public Act 92-0505 was enacted. The diversion to THIS Fund was effective for the entire fiscal year. In FYO2, the annual contribution required per state statute is the state funding requirement certified before Public Act 92-0505 was enacted. This act allowed districts to reduce their contributions to TRS by the amount they contributed to the THIS Fund. The diversion was effective January 1, 2002 through June 30, 2003.

2 Excludes minimum retirement contributions. Excludes employer ERO contributions through FYO7. Beginning in FYO8, employer ERO contributions are included because the costs of the ERO program are now included in the actuarial accrued liability. Beginning in FY06, employer contributions for excess salary increases are included. However, employer contributions for excess sick leave, which also began in FYO6, are not included because there is no assumption for excess sick leave and it is not included in the funding requirements.

See accompanying Independent Auditors' Report.

## OTHER SUPPLEMENTARY INFORMATION

## Schedule of Administrative Expenses

For Years Ended June 30

| Personal services | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 0}$ |
| :--- | ---: | ---: |
| Professional services | $\$ 13,829,954$ | $\$ 12,961,159$ |
| Postage | 794,316 | 998,956 |
| Machine repair and rental | 364,863 | 442,765 |
| Other contractual services | 648,765 | 650,835 |
| Commodities | 958,708 | 739,482 |
| Occupancy expense | 375,310 | 376,038 |
| Depreciation | 254,435 | 242,712 |
| (Gain) on disposal of equipment | 569,222 | 538,732 |
| Total administrative expenses | $\underline{\$ 17,792,071}$ | $\underline{\$ 16,950,679}$ |

## Schedule of Investment Expense

For Years Ended June 30

|  | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 0}$ |  |
| :--- | ---: | ---: | ---: |
| Investment manager fees | $\$ 186,707,816$ | $\$ 180,486,189$ |  |
| Private equity investment expense | $4,855,792$ | $2,176,648$ |  |
| Miscellaneous | $\underline{26,686,005}$ |  | $18,104,100$ |
| Total investment expense | $\underline{\$ 218,249,613}$ |  | $\mathbf{\$ 2 0 0 , 7 6 6 , 9 3 7}$ |

Schedule of Payments to Consultants
For Years Ended June 30

|  | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 0}$ |
| :--- | ---: | ---: |
| Actuarial services | $\$ 201,154$ | $\$ 312,730$ |
| External auditors | 138,347 | 148,487 |
| Legal services | 164,438 | 204,115 |
| Management consultants |  |  |
| Information systems | 13,606 | 20,658 |
| Legislative consultant | 84,000 | 84,000 |
| Information systems audit | 0 | 23,203 |
| Actuarial audit | 0 | 73,467 |
| Executive director search | 114,700 | 97,310 |
| Board and staff training | 47,250 | 0 |
| Operations | 26,332 | 25,001 |
| Other | $\mathbf{4 , 4 8 9}$ | $\mathbf{9 7 9 8 5}$ |
| Total payments to consultants | $\mathbf{\$ 7 9 4 , 3 1 6}$ | $\mathbf{\$ 9 9 8 , 9 5 6}$ |
| See accompanying Independent Auditors' Report. |  |  | of return was 8.5 percent.

FISCAL YEAR 2011 ASSET ALLOCATION



## INTRODUCTION

Global financial markets remained strong through the fiscal year ended June 30, 2011 as improved economic fundamentals and generally reduced risk aversion provided a favorable investment environment. Investors were largely more optimistic during the year, focusing on low global stock and bond market valuations, and global stimulus measures continued across developed countries. However, despite the strong gains for the year, investors remained mindful of the persistent economic challenges from the recent recession and credit crisis, including high unemployment and weakness in the housing market. Through the year, public equity returns outpaced all other markets with United States stocks up 32.4 percent and international stocks rising 30.3 percent.

Within this environment, the TRS investment portfolio posted a strong year, returning 24.3 percent, gross of fees, for the fiscal year ended June 30, 2011 . Total TRS investments increased by approximately $\$ 6.3$ billion during the year, representing the seventh year of the past nine in which portfolio assets have increased.

The TRS portfolio remains fully diversified across different asset classes. A number of investment managers are utilized within each asset class to ensure the appropriate mixture across the various investment styles, allowing the portfolio to achieve broad exposure to the market while minimizing overall risk. This broad diversification serves as the best defense against the uncertainty of volatile global markets.

The TRS trust fund is invested by authority of the Illinois Pension Code under the "prudent person rule," requiring investments to be managed solely in the interest of fund participants and beneficiaries. The TRS Investment Policy guides TRS's investments. Investment principles include preserving the long-term principal of the trust fund, maximizing total return within prudent risk parameters, and acting in the exclusive interest of TRS members.

As master trustee, State Street Bank and Trust has provided to TRS, unless otherwise noted, detailed financial reports of all investments, receipts, disbursements, purchases and sales of securities, and other transactions pertinent to the fund for the period July 1, 2010 through June 30, 2011. A statement of detailed assets, along with their fair market value, was also provided as of June 30, 2011.

Investment performance is calculated using a time-weighted rate of return. Returns are calculated by State Street Bank and Trust using industry best practices. Additionally, State Street Bank and Trust calculated performance rates of return by portfolio, composite, and for all respective indices used throughout this section. TRS staff, in collaboration with the staff of its custodian, prepared the Investments section.

A complete listing of investment holdings is available on request.

## Summary Data June 30, 2011

## Total Fund Market Value

1-Year Return (net of fees) 23.6\%

5 -Year Return (net of fees) 4.1\%

10-Year Return (net of fees)
Percent externally managed 6.0\%

Number of external managers
Custodian
General consultant

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State Street Bank and Trust
R. V. Kuhns and Associates, Inc.

TRS is ranked 39th out of the top 1,000 U.S. pension funds/plan sponsors according to Pensions \& Investments. Rankings are based on market value of total assets at September 30, 2010.

## FUND PERFORMANCE VS. BENCHMARKS <br> AND MARKET VALUES

As of June 30, 2011, TRS's total investments at market value totaled $\$ 37.7$ billion, an increase of $\$ 6.3$ billion from last year.

A summary of holdings and assets is discussed throughout the Investment Section. The totals represent the actual assets (gross of any liabilities, amounts due to brokers, and expenses). The liabilities of the fund are included in the Statements of Plan Assets located on page 24.

TRS had a total fund annualized return of 24.3 percent, gross of fees, and 23.6 percent, net of fees, for the one-year period ended June 30, 2011. The Performance Summary table shows the performance of the total investment portfolio versus comparative benchmarks.

As illustrated in the Performance Summary table, TRS total fund performance surpassed the policy index by 2.1 percentage points for the year ended June 30,2011 . The policy index represents a weighted average of each asset class benchmark, based on the total fund's interim target asset allocation. The total return also surpassed the 8.5 percent actuarial return assumption and the real rate of return expectation, which is to exceed the rate of inflation, as measured by the Consumer Price Index, by 5.0 percentage points.

Performance Summary (net of fees)

| Asset Class / Index | Years ended June 30 |  |  |  |  | Annualized at 6/30/11 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2011 | 2010 | 2009 | 2008 | 2007 | 3 Years | 5 Years | 10 Years |
| TRS Total Fund | 23.6\% | 12.9\% | (22.7)\% | (5.0)\% | 19.2\% | 2.6\% | 4.1 \% | 6.0\% |
| TRS Weighted Policy Index | 21.5 | 10.9 | (18.6) | (4.1) | 17.9 | 3.1 | 4.4 | 5.8 |
| CPI (Inflation) | 3.6 | 1.1 | (1.4) | 5.0 | 2.7 | 1.0 | 2.2 | 2.4 |
| TRS Equity - U.S. | 32.9 | 17.0 | (27.3) | (15.1) | 19.4 | 4.2 | 2.7 | 3.5 |
| Russell 3000 Index | 32.4 | 15.7 | (26.6) | (12.7) | 20.1 | 4.0 | 3.4 | 3.4 |
| TRS Equity - International | 30.3 | 11.3 | (31.9) | (7.7) | 29.6 | (0.4) | 3.4 | 7.5 |
| Non-U.S. Equity Index | 30.3 | 11.5 | (30.5) | (6.2) | 30.2 | 0.3 | 4.3 | 8.0 |
| TRS Fixed Income | 8.9 | 16.8 | 4.9 | 5.1 | 5.9 | 10.1 | 8.2 | 6.9 |
| TRS Fixed Income Index | 3.9 | 9.5 | 6.1 | 7.1 | 6.1 | 6.5 | 6.5 | 6.0 |
| TRS Real Estate | 17.8 | (5.6) | (30.0) | 4.5 | 25.3 | (8.0) | 0.4 | 6.2 |
| Real Estate Property Index | 16.7 | (1.5) | (19.6) | 9.2 | 17.2 | (2.6) | 3.4 | 7.6 |
| TRS Private Equity | 22.3 | 16.5 | (17.9) | 3.3 | 29.3 | 5.4 | 9.3 | 7.1 |
| Russell 3000 Index +3.0\%* | 36.2 | 19.2 | (24.3) | (10.0) | 23.7 | 7.1 | 6.5 | 6.6 |
| TRS Real Return | 23.4 | 13.5 | (26.2) | 20.5 | - | 1.1 | - | - |
| CPI (Inflation) +5.0\%* | 8.7 | 6.1 | 3.5 | 10.3 | - | 6.1 | - | - |
| TRS Absolute Return | 12.4 | 9.6 | (13.9) | 0.9 | - | 2.0 | - | - |
| 90-day Treasury Bill +4.0\%* | 4.2 | 4.2 | 5.0 | 7.8 | - | 4.4 | - | - |

* Index compounded monthly.

Note: Time-weighted rates of return based on the market rate of return are provided by State Street Bank and Trust.

## ASSET ALLOCATION VS. TARGETS

A pension fund's most important investment policy decision is the selection of its asset allocation. Similar to other large institutional funds, TRS maintains a well-diversified portfolio to manage risk effectively.

## FY11 Asset Allocation



Through the fiscal year, TRS continued implementation of the asset allocation study adopted in May 2009. That study focused primarily on additional funding to the retirement system's newer asset classes, real return and absolute return. In FY11, TRS was successful in allocating these classes toward their 10 percent and 5 percent respective targets. Funding for the increases came largely from the strength of the global public equity markets and the retirement system's ability to effectively rebalance from those classes during the year.

TRS also conducted a new asset allocation study within the fiscal year, with revised targets adopted by the Board of Trustees in April 2011. Implementation of the new targets will begin in FY12 and include a continued evolution of the fund's diversification into the absolute return and private equity asset classes (to 8 percent and 12 percent of fund respectively), as well as a slight increase to fixed income investments (to 16 percent of fund). These increases are focused on controlling the overall volatility of the investment portfolio within an uncertain economic landscape. Balancing the allocation increases is a corresponding decrease to U.S. equity (to 20 percent of fund).

The asset mix is periodically compared to the policy targets to determine when rebalancing of the fund or changes to the interim policy targets are necessary. The following Strategic Investment Listing table shows the asset allocation targets, as adopted by the Board of Trustees, compared to the total assets assigned to each particular asset class at June 30, 2011.

|  | 6/30/2011 <br> Total Fund \$ Million | FY11 |  |  | FY10 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Actual Percent | Interim Target | Policy Target | Actual Percent | Policy Target |
| U.S. equities | \$10,290 | 27.5\% | 28.0\% | 26.0\% | 28.6\% | 26.0\% |
| International equities | 7,356 | 19.7 | 20.0 | 20.0 | 19.3 | 20.0 |
| Fixed income | 6,261 | 16.7 | 17.0 | 15.0 | 17.7 | 15.0 |
| Real return | 3,676 | 9.8 | 10.0 | 10.0 | 9.9 | 10.0 |
| Real estate | 4,054 | 10.8 | 12.0 | 14.0 | 10.4 | 14.0 |
| Private equity | 3,624 | 9.7 | 8.0 | 10.0 | 9.5 | 10.0 |
| Absolute return | 1,486 | 4.0 | 3.8 | 5.0 | 3.9 | 5.0 |
| Short-term investments | 657 | 1.8 | 1.2 | 0.0 | 0.7 | 0.0 |
| Pending settlements/expenses* | 344 | NA | NA | NA | NA | NA |
| Total fund | \$37,748 | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |

* The liability portion is placed within the Statements of Plan Net Assets.


## PORTFOLIO SECURITIES SUMMARY

The Portfolio Securities Summary table contains a detailed list of security types. The amounts in this table differ from the allocation percentages shown in the previous Strategic Investment Listing table. The strategic investment listing represents assets assigned to managers within each asset class, whereas the portfolio securities summary represents specific types of financial instruments. The principal differences can be explained by the types of investments a manager is allowed to hold within its portfolio. For example, cash and currency held within a manager's portfolio is categorized in the same way as the manager's primary assignment on the Strategic Investment Listing. However, in the portfolio securities summary, these investments are categorized as short-term investments and foreign currency.

## Portfolio Securities Summary

|  | 2011 |  | 2010 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Market Value | \% of Total | Market Value | $\% \text { of }$ Total |
| U.S. Government Obligations |  |  |  |  |
| U.S. treasuries | \$308,087,946 | 0.8\% | \$649,461,814 | 2.1\% |
| U.S. federal agencies | 160,285,470 | 0.4 | 253,893,175 | 0.8 |
| U.S. government index-linked bonds | 583,141,471 | 1.5 | 287,871,078 | 0.9 |
| U.S. government-backed mortgages | 789,535,623 | 2.1 | 955,686,526 | 3.0 |
| U.S. government-backed bonds | 2,381,562 | 0.0 | 110,671,769 | 0.4 |
| U.S. government special situations | 18,121,454 | 0.0 | 28,523,685 | 0.1 |
| Municipals (taxable) | 75,498,564 | 0.2 | 67,915,609 | 0.2 |
| Credits |  |  |  |  |
| Bank loans | 25,751,829 | 0.1 | 988,929 | 0.0 |
| Financial | 629,597,186 | 1.7 | 694,537,178 | 2.2 |
| Industrial | 821,577,307 | 2.2 | 945,702,864 | 3.0 |
| Utilities | 92,406,632 | 0.3 | 89,049,210 | 0.3 |
| Asset-backed securities | 270,560,959 | 0.7 | 337,410,443 | 1.1 |
| Commercial mortgage-backed securities | 151,249,137 | 0.4 | 136,703,649 | 0.4 |
| Collateralized mortgage obligations | 220,255,229 | 0.6 | 322,117,221 | 1.0 |
|  |  |  |  | (continued) |


| (continued) | 2011 |  | 2010 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Market Value | \% of Total | Market Value | \% of Total |
| Commingled/closed-end funds | \$938,933,952 | 2.5\% | \$71,868,583 | 0.2\% |
| Corporate convertible bonds | 76,330,713 | 0.2 | 41,782,788 | 0.1 |
| Foreign debt/corporate obligations | 1,923,717,517 | 5.1 | 1,557,088,214 | 5.0 |
| Total Bonds, Corporate Notes, and Government Obligations | 7,087,432,551 | 18.8 | 6,551,272,735 | 20.8 |
| Equities |  |  |  |  |
| Common stock - U.S. | 9,954,432,992 | 26.3 | 8,098,482,440 | 25.7 |
| Preferred stock - U.S. | 25,036,843 | 0.1 | 37,372,707 | 0.1 |
| Common stock - international | 7,283,625,451 | 19.3 | 6,155,400,882 | 19.6 |
| Preferred stock - international | 132,602,466 | 0.4 | 120,403,725 | 0.4 |
| Total Equities | 17,395,697,752 | 46.1 | 14,411,659,754 | 45.8 |
| Real Return - Commingled Funds |  |  |  |  |
| Commodity funds | 324,692,417 | 0.8 | 262,150,416 | 0.8 |
| Global macro strategies | 2,449,240,426 | 6.5 | 2,033,277,459 | 6.5 |
| Total Real Return Commingled Funds | 2,773,932,843 | 7.3 | 2,295,427,875 | 7.3 |
| Short-Term Investments/ <br> Cash Equivalents <br> $1,299,196,172 \quad 3.5 \quad 683,859,686 \quad 2.2$ |  |  |  |  |
| Derivatives - Options, Futures, and Swaps | 9,610,104 | 0.0 | $(3,507,417)$ | 0.0 |
| Foreign Currency | 89,428,959 | 0.2 | 68,454,294 | 0.2 |
| Absolute Return | 1,485,565,992 | 3.9 | 1,231,558,537 | 3.9 |
| Private Equity | 3,615,944,356 | 9.6 | 2,990,955,411 | 9.5 |
| Real Estate Equity | 3,991,533,162 | 10.6 | 3,252,463,291 | 10.3 |
| TRS Total Portfolio | \$37,748,341,891 | 100.0\% | \$31,482,144,166 | 100.0\% |

## SECURITIES HOLDINGS (HISTORICAL)

Historically, TRS has adopted various asset allocation strategies. The Asset Allocation table shows the actual asset allocation based on asset types for the last five-year period.

Securities Holdings for Years Ended June 30

| Asset Type | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 7}$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Bonds, corporate notes, and government obligations | $18.8 \%$ | $20.8 \%$ | $22.0 \%$ | $22.7 \%$ | $24.0 \%$ |
| Equities - U.S. | 26.4 | 25.8 | 27.8 | 27.5 | 33.0 |
| Equities - international | 19.7 | 20.0 | 18.9 | 21.5 | 22.6 |
| Real estate equity | 10.6 | 10.3 | 11.6 | 12.1 | 11.1 |
| Private equity | 9.6 | 9.5 | 8.1 | 6.1 | 4.5 |
| Real return | 7.3 | 7.3 | 5.3 | 5.4 | - |
| Absolute return | 3.9 | 3.9 | 2.5 | 1.3 | 1.2 |
| Short-term investments/currency | 3.7 | 2.4 | 3.8 | 3.4 | 3.6 |
| Totals | $\mathbf{1 0 0 . 0} \%$ | $\mathbf{1 0 0 . 0} \%$ | $\mathbf{1 0 0 . 0} \%$ | $\mathbf{1 0 0 . 0} \%$ | $\mathbf{1 0 0 . 0 \%}$ |

[^1]Over the years, TRS's asset allocation has provided consistent overall returns, as represented by the following chart showing the $\$ 10,000$ over the last 29 years.

## GROWTH OF \$10,000



Source: TRS
The following sections provide a brief and informative overview of the various asset classes utilized by TRS for the period ended June 30, 2011.

## U.S. EQUITY

U.S. equity, or common stock, represents shares or units of ownership in public corporations domiciled within the United States. TRS invests in equities because the asset class offers the opportunity to participate in the success of the U.S. economy and specific corporations within it. Stockholders share in the growth of a company through an increase in stock price, as well as through the distribution of corporate profits in the form of dividends.

For the fiscal year, TRS's U.S. equity portfolio earned a 32.9 percent return on a net of fee basis, compared to the Russell 3000 Index gain of 32.4 percent. One-, three-, five-, and 10 -year comparisons to this benchmark follow.

|  | FY11 | 3-Year | 5-Year | 10-Year |
| :--- | :--- | :--- | :--- | :---: |
| TRS, net of fees | $32.9 \%$ | $4.2 \%$ | $2.7 \%$ | $3.5 \%$ |
| Russell 3000 Index | 32.4 | 4.0 | 3.4 | 3.4 |

The following top 10 U.S. equity holdings at June 30, 2011 represent 10.6 percent of total U.S. equity holdings. A complete listing of investment holdings is available as a separate report.

Top 10 U.S. Equity Holdings at June 30, 2011
Firm
Market Value
Apple, Inc. \$182,177,508
Exxon Mobil Corp. 163,348,540
JP Morgan Chase \& Co. 114,439,377
Chevron Corp. 99,049,421
Microsoft Corp.
95,654,364
Pfizer, Inc. 91,606,016
Oracle Corp.
81,315,015
Wells Fargo \& Co.
79,551,597
General Electric Co.
78,633,262
AT\&T, Inc.
76,798,392

## Total

\$1,062,573,492
Source: State Street Bank and Trust and TRS.
At June 30, 2011, 27.5 percent of TRS's investment portfolio was assigned to U.S. equity managers. TRS employed the following U.S. equity managers during FY11.

## U.S. Equity Managers and Assets Under Management (inception date of account)

## Index (Large Cap)

RhumbLine Advisors, L.P. (7/06)

$$
\$ 2,475,198,519
$$

## Enhanced Index (Large Cap)

MFS Institutional Advisors, Inc. (10/10) 288,357,442
T. Rowe Price Associates, Inc. (6/05)

$$
732,146,970
$$

Large Cap Core
EARNEST Partners, L.L.C. (2/02) 209,417,803
J.P. Morgan Investment Management, Inc. (12/07) 565,697,837

Levin Capital Strategies, L.P. (10/10)
284,171,766
Large Cap Value
Denali Advisors, L.L.C. (4/08) 252,144,061
Loomis, Sayles \& Company, L.P. (3/10) 536,718,917
Robeco Boston Partners Asset Management, L.P. (3/10) 510,421,005

## Large Cap Growth

T. Rowe Price Associates, Inc. (11/06) 516,075,181

Turner Investment Partners, Inc. (6/04) 535,620,549
Wellington Management Company, L.P. (11/07) 323,150,647
Index (Small/Mid Cap Core)
Rhumbline Advisors, L.P. (5/07) 220,318,161

## Small/Mid Cap Value

Boston Company Asset Management, L.L.C. (7/08) 303,041,126
Cramer Rosenthal McGlynn, L.L.C. (3/09)
LSV Asset Management (12/02)

209,644,600
309,621,467

## Small/Mid Cap Growth

Boston Company Asset Management, L.L.C. (3/09)
\$257,229,230
Fred Alger Management, Inc. (12/07)
State Street Global Markets ( $4 / 11$ )
243,062,134

## Small Cap Growth

Emerald Advisors, Inc. (11/04)
256,475,481
Frontier Capital Management, L.L.C. (7/09)
241,825,923

## Small Cap Value

AQR Capital Management, L.L.C. (11/06) 203,177,553
Fiduciary Management Associates, L.L.C. (7/08) 203,671,938
Lombardia Capital Partners, L.L.C. (11/08) 203,537,869

## Emerging Manager

Credo Capital Management (6/09) 42,050,088
Herndon Capital Management, L.L.C. (3/11) 27,014,297
Lombardia Capital Partners, L.L.C. (3/10) 58,094,569
Oakbrook Investments (11/09)
32,780,585
Note: The list does not include managers terminated prior to June 30, 2011 with residual assets in the account.

## Discussion of U.S. Equity

Investment managers are chosen to diversify the portfolio on both a capitalization and style basis. This diversification is important for controlling the risk of the portfolio, as well as balancing the portfolio against the broad benchmark and economy.

## Capitalization



Market Style


Source: TRS Investment Policy
Following a decline to end the prior fiscal year, the U.S. equity market produced strong returns through FY1 1. As fear abated and investors sought higher returns, the broad U.S. stock market (Russell 3000 Index) increased 32.4 percent for the year ended June 30,2011 . While gains were consistent through much of the year, investors began to sell equity securities during the last fiscal quarter due to renewed European sovereign debt concerns. Within this environment, the TRS domestic equity portfolio gained 32.9 percent for the fiscal year, beating its Russell 3000 benchmark by approximately 0.5 of a percentage point. The retirement system's structural overweight to smaller companies was the key contributor to the portfolio's outperformance.

## Statistical Data

The following tables convey various statistics, including attribution and sector analysis, of the U.S. equity portfolio as compared to TRS's domestic equity benchmark, the Russell 3000 Index. The Russell 3000 Index is a broad market benchmark representing 98 percent of the investible U.S. equity market.

TRS Domestic Equity as of June 30, 2011

Characteristic

| Weighted average market cap (\$ billions) | $\$ 55.5$ | $\$ 73.2$ |
| :--- | ---: | ---: |
| Price/earnings ratio | 20.5 x | 20.2 x |
| Dividend yield | $1.4 \%$ | $1.8 \%$ |
| Beta | 1.1 | 1.0 |
| 5 -year EPS growth | $6.9 \%$ | $5.6 \%$ |
| Price/book ratio | 3.4 x | 3.5 x |
| Source: State Street Bank and Trust |  |  |


| Sector | TRS Domestic Equity Weighting | Russell 3000 Index Weighting |
| :---: | :---: | :---: |
| Consumer discretionary | 13.3\% | 11.9\% |
| Consumer durables | 6.5 | 8.7 |
| Energy | 10.6 | 11.3 |
| Financial services | 15.8 | 16.2 |
| Health care | 11.9 | 11.4 |
| Industrials | 13.2 | 12.0 |
| Materials | 4.4 | 4.6 |
| Technology | 19.0 | 17.6 |
| Telecommunication services | 2.4 | 2.8 |
| Utilities | 2.9 | 3.5 |
| Total | 100.0\% | $\overline{100.0 \%}$ |

Source: State Street Bank and Trust and TRS

## INTERNATIONAL EQUITY

International equity, or common stock, represents shares or units of ownership in public corporations domiciled outside the United States. International investing provides important diversification benefits to the TRS portfolio. While the international economy has increasingly become more global in nature, not all economies move in tandem. TRS's international equity managers are able to participate in the strength of individual markets, thus enhancing the TRS total portfolio. Additionally, corporations worldwide have expanded their global reach. The international equity portfolio is able to seek out superior companies operating multi-nationally, or companies that are particularly strong in their own markets or industries.

For the year ended June 30, 2011, the international equity asset class returned 30.3 percent on a net of fee basis compared to the Morgan Stanley Capital International (MSCI) All Country Excluding U.S. Investable Market Index (identified as Non-U.S. Equity Index in the following references) return of 30.3 percent. One-, three-, five-, and 10 -year comparisons to this benchmark are in the following table.

|  | FY11 | 3-Year | 5-Year | 10-Year |
| :--- | :--- | :---: | :---: | :---: |
| TRS, net of fees | $30.3 \%$ | $(0.4 \%)$ | $3.4 \%$ | $\mathbf{7 . 5} \%$ |
| Non-U.S. Equity Index | 30.3 | 0.3 | 4.3 | 8.0 |

The top 10 international equity holdings as of June 30,2011 follow and represent 8.8 percent of the total international equity holdings. These investments are diversified geographically and include companies that are dominant within their industry and familiar to the U.S. economy.

Top 10 International Holdings at June 30, 2011

| Firm | Country | Market Value <br> (USD) |
| :--- | :--- | ---: |
| Vodafone Group PLC | United Kingdom | $\$ 84,158,994$ |
| Nestle SA | Switzerland | $76,035,292$ |
| Eni SpA | Italy | $70,285,072$ |
| Sanofi | France | $66,288,356$ |
| Novartis AG | Switzerland | $64,903,517$ |
| GlaxoSmithKline PLC | United Kingdom | $62,278,476$ |
| BP plc | United Kingdom | $60,658,270$ |
| Canon, Inc. | Japan | $59,400,334$ |
| British American Tobacco PLC | United Kingdom | $57,948,439$ |
| HSBC Holdings PLC | United Kingdom | $\underline{54,378,094}$ |
| Total |  | $\underline{\$ 656,334,844}$ |

Source: State Street Bank and Trust and TRS
At June 30, 2011, 19.7 percent of the TRS investment portfolio was assigned to international equity managers. TRS employed the following international equity managers during FY11.

## International Equity Managers and Assets Under Management (inception date of account)

## Large Cap Core

Aberdeen Asset Management, Inc. (7/10) \$526,832,162
Northern Trust Investments, N.A. $(8 / 10)$
1,439,838,944

## Large Cap Growth

Jarislowsky, Fraser Limited (8/05) 389,316,100
McKinley Capital Management, Inc. (8/05) 885,358,353
Trilogy Global Advisors, L.L.C. (8/07) 393,807,362

## Large Cap Value

Brandes Investment Partners, L.P. (2/98) 805,476,528
Mondrian Investment Partners Limited (4/93) 860,291,096

## Small/Mid Cap

American Century Global Investment Management, Inc. (6/08)
Dimensional Fund Advisors, L.P. (6/08)
206,538,214

Putnam Advisory Company, L.L.C. (3/09)
State Street Global Markets (8/07)

## Emerging Manager

Strategic Global Advisors, L.L.C. (3/11)
25,298,085

## Emerging Markets

Aberdeen Asset Management, Inc. (3/08)
329,728,897
Grantham, Mayo, Van Otterloo \& Co., L.L.C. (3/03)
901,508,102
Note: The list does not include managers terminated prior to June 30, 2011 with residual assets in the account.

## Discussion of International Equity

The International Equity Manager Structure table provides a further breakdown of the styles within the international equity portfolio.

## International Equity Manager Structure

| International Equity Classification | Target | Actual |
| :--- | :--- | :--- |
| Large Cap Core | $32.5 \%$ | $26.8 \%$ |
| Large Cap Growth | 20.0 | 22.8 |
| Large Cap Value | 20.0 | 22.7 |
| Small/Mid Cap | 11.0 | 10.9 |
| Emerging Markets | $\frac{16.5}{100.0 \%}$ | $\underline{16.8}$ |
| Total | $\mathbf{1 0 0 . 0} \%$ |  |

International equity markets posted strong gains for the year ended June 30,2011. Market expectations were very positive during the first half of the fiscal year as investors focused on improving global economic conditions. Economically sensitive sectors such as energy, materials and industrials led equity markets higher during this period.

However, entering the new calendar year markets faced renewed uncertainty and volatility on a number of fronts. The tragic devastation of the Japanese tsunami disrupted supply chains to multiple industries and contributed to global economic uncertainty. Growing concerns over the Greek sovereign debt crisis and the potential for similar pressures in other European countries raised fears of another global financial crisis. Increasing inflation in many emerging market countries brought about new concerns over the stability and growth prospects for the global economy.

The TRS international equity portfolio recorded positive returns for the fiscal year gaining 30.3 percent, net of fees, matching the return of its benchmark. This performance was achieved despite the portfolio's defensive positioning, as TRS managers overweighted sectors such as telecom, consumer staples and healthcare at the expense of more economically sensitive sectors such as materials, energy and industrials.

## Portfolio Characteristics

The next two charts convey the fundamental characteristics and the regional exposure of the international equity portfolio as of June 30, 2011.

## International Equity Fundamental Characteristics

Characteristic
Weighted average market cap (\$ billions)
Price/earnings ratio
Dividend yield
Price/book ratio
Source: State Street Bank and Trust

## Regional Allocation Comparison at June 30, 2011

TRS International Equity Exposure


## GLOBAL FIXED INCOME

Global fixed income is a financial obligation of an entity including, but not limited to, U.S. and foreign corporations, governments, agencies, indices, or municipalities. These entities promise to pay a specified sum of money at a future date, while paying specified interest during the term of the issue. A fixed income security represents a contractual obligation of a debt or a loan, with the issuer of debt as the borrower of capital, and the purchaser, or holder of bonds, as the creditor or lender.

Global fixed income is an important asset class in a well-diversified portfolio. Fixed income investments can reduce volatility, offer low or negative correlation to other asset classes and provide income streams, or coupons, essential to the growth of the overall portfolio.

For the year ended June 30, 2011 , the TRS fixed income portfolio returned 8.9 percent, net of fees, compared to the 3.9 percent return of the benchmark, the Barclays Capital U.S. Aggregate Index. For periods longer than five years, TRS utilized a blended index of U.S. and non-dollar indices.

One-, three-, five-, and 10-year comparisons to the relative benchmark follow.

|  | FY11 | 3-Year | 5-Year | 10-Year |
| :--- | :--- | :--- | :---: | :---: |
| TRS, net of fees | $8.9 \%$ | $10.1 \%$ | $8.2 \%$ | $\mathbf{6 . 9 \%}$ |
| TRS Fixed Income Index | 3.9 | 6.5 | 6.5 | 6.0 |

The following table lists the top 10 global fixed income investments held by TRS's managers as of June 30, 2011. To-be-announced (TBA) mortgages are underlying contracts on mortgage-backed securities (MBS) to buy or sell a MBS which will be delivered at an agreed-upon date in the future. A complete listing of investment holdings is available as a separate report.

Top 10 Global Fixed Income Holdings at June 30, 2011
Security/Position
Market Value

| Franklin Templeton Emerging Market Debt Fund | $\$ 414,737,490$ |
| :--- | ---: |
| PIMCO Global Advantage Strategy Bond Fund | $235,820,979$ |
| Loomis Sayles Absolute Strategies Trust | $174,768,000$ |
| Federal National Mortgage Association TBA | $71,123,938$ |
| Buoni Poliennali Del Tes | $69,414,426$ |
| United Kingdom of Great Britain Treasury | $62,336,432$ |
| Goldman Sachs Collective Trust Debt Implementation Fund | $53,391,876$ |
| U.S. Treasury Inflation Linked Bond | $48,913,207$ |
| U.S. Treasury Inflation Linked Bond | $46,265,949$ |
| Goldman Sachs Collective Trust High Yield Fund | $42,629,906$ |
| Total | $\mathbf{\$ 1 , 2 1 9 , 4 0 2 , 2 0 3}$ |

Source: State Street Bank and Trust and TRS
At June 30, 2011, 16.7 percent of the TRS investment portfolio was assigned to global fixed income. TRS employed the following fixed income managers during FY11. This excludes fixed income-type assets overseen by managers in other asset classes containing fixed income securities as a small part of their overall strategies.

## Global Fixed Income Managers and Assets Under Management (inception date of account)

Dolan McEniry Capital Management, L.L.C. (5/06)
\$368,925,331
Franklin Advisers, Inc. (2/08)
803,533,952
Franklin Templeton Investment Management Limited (12/10)
414,737,490
Garcia Hamilton \& Associates, L.P. (6/10)
26,740,584
Goldman Sachs Asset Management, L.P. (5/06)
869,760,512
Hartford Investment Management Company (3/11)
271,050,707
LM Capital Group, L.L.C. (12/09)
27,514,184
Loomis Sayles \& Company, L.P. (6/08)
806,578,383
Loomis Sayles Trust Company L.L.C. (3/11)
174,768,000
Oaktree PPIP Private Fund, L.P. $(3 / 10)$
18,121,454
Pacific Investment Management Company, L.L.C. (7/82)
1,027,101,960
Pacific Investment Management Company -
Bank Recapitalization and Value Opportunities Bravo Fund, L.P. (1/11) 17,210,100
Pacific Investment Management Company -
Global Advantage Strategy Bond Fund (3/11) 235,820,979
Prudential Investment Management, Inc. (12/08) 815,685,293
Taplin, Canida \& Habacht (3/04)
358,795,233
Note: This list does not include certain mangers terminated prior to June 30, 2011 with residual assets in the account.

## Discussion of Global Fixed Income

TRS's fixed income portfolio outperformed the Barclays Capital U.S. Aggregate index by 5.0 percentage points, net of fees, during the fiscal year. TRS held an overweight position to most spread sectors going into the fiscal year with significant exposures to corporate bonds. These positions benefitted substantially as spreads compressed throughout the year. Other areas of strength included higher allocations to foreign denominated bonds, which took advantage of higher yields, and specific investments in special situations such as the Term Asset-backed Loan Facility (TALF) and the Public Private Investment Partnership (PPIP).

TRS's fixed income portfolio began the year with shorter duration than the benchmark. As the year progressed, the TRS portfolio moved toward a slightly longer duration position as it became evident the U.S. Federal Reserve remained committed to low interest rates. TRS also maintained an overweight to higher yielding non-U.S. securities. Throughout the year, the TRS fixed income portfolio held a similar risk profile relative to the index with lower volatility than duration matched nominal U.S. treasuries.

## Statistical Data

The following data provides statistical information on TRS's global fixed income portfolio.

## Global Fixed Income Profile

|  | TRS Fixed <br> Income Portfolio <br> $\mathbf{6 / 3 0 / 1 1}$ | Barclays Capital <br> Aggregate Index <br> $\mathbf{6 / 3 0 / 1 1}$ | TRS Fixed <br> Income Portfolio <br> $\mathbf{6 / 3 0 / 1 0}$ | Barclays Capital <br> Aggregate Index |
| :--- | ---: | ---: | ---: | ---: |
| $\mathbf{6 / 3 0 / 1 0}$ |  |  |  |  |

Diversification by Quality Rating for Individual Bonds

| Moody's Quality Rating | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 0}$ |
| :--- | ---: | ---: |
| Aaa* | $46.9 \%$ | $48.0 \%$ |

Aal through Aa3
5.9
5.5

A1 through A3
9.6
11.5

Baal through Baa3
16.8
16.0

Bal through Ba3
8.5
7.9

B1 through B3
5.1
3.2

Under B3
1.7

Other**
Total
$\frac{5.5}{100.0 \%} \quad \frac{6.2}{100.0 \%}$

* Aaa includes treasury securities
** Other includes unrated securities
Source: State Street Bank and Trust and TRS


## REAL RETURN

The real return asset class was established during 2007 in recognition of the significant impact inflation has on an investment portfolio and its return objectives. Traditional asset classes, such as equities and fixed income, tend to perform well in periods of stable or falling inflation yet face meaningful challenges in periods of rising inflation.

The objective of the real return asset class is to exceed the Consumer Price Index (CPI) by 5.0 percentage points over a five- to 10 -year period of time. Real return strategies are generally less correlated with traditional stock and bond portfolios and provide inflation protection and excess returns during periods of rising inflation while reducing overall risk to the total fund. It should be noted that the CPI is not an investible benchmark, but is utilized as a benchmark given the inflation focus of the asset class. For the year ended June 30, 2011, TRS's real return asset class earned 23.4 percent, net of fees, compared to the 8.7 percent return of the benchmark.

|  | FY11 | 3-Year | Since Inception |
| :--- | :---: | :---: | ---: |
| TRS, net of fees | $\mathbf{2 3 . 4 \%}$ | $\mathbf{1 . 1 \%}$ | $\mathbf{5 . 7 \%}$ |
| Consumer Price Index $+5 \%$ | 8.7 | 6.1 | 7.1 |

At June 30, 2011, 9.8 percent of TRS's investment portfolio was assigned to real return managers. TRS employed real return managers to use global inflation-linked bonds, global macro, and long-only commodity strategies during the fiscal year. The asset class maintains a risk profile between equities and fixed income. As of June 30, 2011, TRS employed the following managers and/or funds including their respective assets under management.

## Real Return Managers and Assets Under Management (inception date of account)

## Global Inflation-linked Bonds

New Century Advisors, L.L.C. (2/08) \$252,643,207
Pacific Investment Management Company, L.L.C. (5/07) 605,072,644

## Global Macro Strategies

AQR Global Risk Premium Tactical Offshore Fund II, Ltd. (7/07) 615,243,782
Bridgewater All Weather Portfolio Offshore Limited (7/07) 719,356,938
PIMCO Global Multi-Asset Strategy (12/09)
541,435,525
Wellington Management Company -
Diversified Inflation Hedges Portfolio, L.L.C. (9/07)
617,937,966

## Commodities

Gresham Investment Management Company, L.L.C. (3/09) 114,378,384
Schroder Commodity Offshore Portfolio, L.L.P. (3/08) 210,314,033

## Discussion of Real Return

The 23.4 percent return of the real return asset class during the fiscal year was led by commodities earning 28.9 percent. Investments in the global macro sector earned 25.6 percent and global inflation-linked bonds followed with 14.3 percent, all net of fees. The U.S. inflation rate increased from 1.1 percent to 3.6 percent over the fiscal year, driven primarily by commodity and rental prices. TRS recognized significant profits from the real return asset class during the fiscal year, selling investments for rebalancing purposes as needed.

The real return portfolio continues to serve as a portfolio diversifier and protection against the harmful effects of inflation on the total fund. The policy target for real return remains 10 percent of total fund.

## Real Return Targets and Actual Allocation as of June 30, 2011

| Real Return Subclasses | Target | Actual |
| :--- | :---: | :---: |
| Global inflation-linked bonds | $24.0 \%$ | $23.3 \%$ |
| Global macro strategies | 66.0 | 67.9 |
| Commodities | $\frac{10.0}{8.8}$ |  |
| Total | $\mathbf{1 0 0 . 0 \%}$ | $\mathbf{1 0 0 . 0 \%}$ |

Source: TRS

## PRIVATE EQUITY

Private equity includes investments that are placed and traded outside of the stock exchanges and other public markets. Over the long term, they are an attractive investment for pension funds, endowments, insurance companies, and other sophisticated investors. The investment class benefits the economy by providing needed capital
to start-up companies and for continued growth in privately held companies and firms that are restructuring to better compete. There is additional risk investing in private equity, but with skillful selection of managers, returns can be significantly higher than public equity investments.

The asset class is commonly referred to as private equity, even though it includes privately placed debt instruments as well. Often, the debt includes a control position that is similar to equity because it allows the debt holder to influence the operations and management of the company. TRS is widely diversified across all sub-sectors within private equity, including buyout, growth equity, venture capital, subordinated debt, and distressed debt.

TRS measures private equity performance against the Russell 3000 stock index plus 300 basis points ( 3 percentage points). This benchmark does not specifically compare performance to the private equity industry, but rather to the TRS long-term expectation that private equity produce returns superior to the public markets. For the one-year period ended June 30, 2011 , private equity earned 22.3 percent on a net of fee basis, compared to the benchmark gain of 36.2 percent.

In general, an investor must look at a longer-term investment horizon to measure the success of a private equity program. TRS's investments in private equity maintain a very strong long-term return, outperforming the benchmark by 2.8 and 0.5 percentage points over the five- and 10 -year period. This performance, as well as the performance of the private equity portfolio since TRS first began investing in private equity, is above expectations. One-, three-, five-, and 10-year comparisons to this benchmark are noted in the following table.

|  | FY11 | 3-Year | 5-Year | 10-Year |
| :--- | :--- | :--- | :--- | :---: |
| TRS, net of fees | $\mathbf{2 2 . 3} \%$ | $\mathbf{5 . 4} \%$ | $\mathbf{9 . 3} \%$ | $\mathbf{7 . 1} \%$ |
| Russell 3000 Index $+3.0 \%$ | 36.2 | 7.1 | 6.5 | 6.6 |

At June 30, 2011, 9.7 percent of the TRS investment portfolio was assigned to the private equity asset class. The FY1 1 policy target for private equity is 10 percent of the total fund. The following chart lists the private equity partnerships/funds (and the respective assets under management) that TRS has investments with as of June 30, 2011.

## Private Equity Partnerships and Assets Under Management (inception date of account)

## Buyout

Advent International GPE VI, L.P. (7/08)
\$40,731,524
Apollo Investment Fund V, L.P. (5/01)
Apollo Investment Fund VI, L.P. (5/06)
Apollo Investment Fund VII, L.P. (1/08)
Banc Fund VI, L.P. (6/02)
Banc Fund VII, L.P. (5/05)
61,597,851

Baring Asia Private Equity Fund V, L.P. (3/11)
170,021,977

Carlyle Partners IV, L.P. (4/05)
183,842,711

Carlyle Partners V, L.P. (7/07)
Carlyle/Riverstone Global Energy and Power Fund II, L.P. (1/03)
31,953,861

Carlyle/Riverstone Global Energy and Power Fund III, L.P. (4/06)
25,161,382

Castle Harlan Partners IV, L.P. (5/03)
86,336
96,147,930

Code Hennessy \& Simmons V, L.P. (2/05)
132,004,603
62,162,236

DLJ Merchant Banking Partners II, L.P. (3/97)
98,570,628

DLJ Merchant Banking Partners III, L.P. (9/00)
8,958,852

Elevation Partners, L.P. (4/05)
25,651,581

Energy Capital Partners I, L.P. (4/06)
(continued)
Energy Capital Partners II-A, L.P. (9/09)
\$13,1 12,769
EnerVest Energy Institutional Fund XII-A, L.P. (12/10)
9,507,399
Evercore Capital Partners II, L.P. (4/03)
25,196,667
GI Partners (1/09)
Glencoe Capital Partners III, L.P. (1/04)
Glencoe Capital Institutional Partners III, L.P. (6/04)
36,463,036
16,010,205

Green Equity Investors V, L.P. (8/07)
GTCR Fund VII/VIIA, L.P. (3/00)
4,892,387

GTCR Fund VIII, L.P. (7/03)
Hispania Private Equity, L.P. (5/04)
ICV Partners II, L.P. ( $1 / 06$ )
J.C. Flowers II, L.P. (2/07)

KKR 1996 Fund, L.P. (5/97)
Littlejohn Fund IV, L.P. (7/10)
Madison Dearborn V, L.P. (7/06)
MBK Partners Fund II, L.P. (5/09)
Mesirow Capital Partners VII, L.P. $(6 / 97)$
Morgan Creek Partners Asia, L.P. (1/11)
New Mountain Partners III, L.P. (8/07)
Onex Partners III, L.P. (04/09)
PAI Europe V, L.P. (4/08)
Pine Brook Capital Partners, L.P. (1/08)
Providence Equity Partners VI, L.P. (3/07)
Reliant Equity Partners, L.P. (6/04)
Riverstone/Carlyle GL IV (3/08)
Silver Lake Partners III, L.P. (8/07)
Stone Point Capital Trident V, L.P. (12/10)
TCW/Latin America Private Equity Partners, L.P. (5/97)
Thayer Equity Investors V, L.P. (5/03)
TPG Partners IV, L.P. (12/03)
TPG Partners VI, L.P. (4/08)
Trilantic Capital Partners III, L.P. (4/05)
Trilantic Capital Partners IV, L.P. (10/07)
Trivest Fund II, Ltd. (4/96)
Veritas Capital Fund IV, L.P. ( $11 / 10$ )
Veritas Capital Fund IV, L.P. Annex A (2/11)
Vicente Capital Partners Growth Equity Fund, L.P. (4/08)
Vista Equity Partners Fund III, L.P. (1 $1 / 07$ )
VS\&A Communications Partners II, L.P. (8/95)
VSS Communications Partners IV, L.P. (3/05)
Welsh, Carson, Anderson \& Stowe Capital Partners X, L.P. (8/05)
Windpoint Partners VI, L.P. (2/06)
WPG Corporate Development Associates V, L.P. (11/97)
80,468,440
315,681
19,961,566
1,190,752
12,465,562
13,387,564
3,491,782
17,893,720
84,481,190
17,514,155
602,270
20,129,949
55,759,455
13,158,308
21,903,921
21,756,828
100,904,682
215,043
82,772,764
67,309,604
14,901,986
31,089
52,942,516
35,449,634
59,570,327
17,428,839
20,914,244
2,772,130
23,846,658
7,500,000
3,593,619
52,094,522
1,350,080
32,819,222
54,881,755
22,986,681

## Distressed Debt

Avenue Europe Special Situations Fund, L.P. (5/08)
35,571,616
Avenue Special Situations Fund V, L.P. (10/07)
873,381

Blackstone/GSO Capital Partners (9/09)
\$47,766,541
Carlyle Strategic Partners, L.P. (10/04)
24,412,278
Clearlake Capital Partners II, L.P. (7/09)
14,006,065
MatlinPatterson Global Opportunities Fund II, L.P. (1/04)
MatlinPatterson Global Opportunities Fund III, L.P. (6/07)
13,102,613
MatlinPatterson Preferred II (3/09)
Oaktree Annex A (11/10)
57,946,927
10,379,471
Oaktree Opportunities Fund VIII, L.P. (3/10)
16,829,984
OCM Opportunities Fund V, L.P. (6/04)
OCM Opportunities Fund VIIb, L.P. (6/08)
OCM European Principal Opportunities Fund II, L.P. (8/08)
82,057,603
6,138,706
103,917,366

## Subordinated Debt

Maranon Mezzanine Fund, L.P. (8/09) 10,265,030
Merit Mezzanine Fund IV, L.P. (1/05)
Prism Mezzanine Fund, L.P. (12/04)
SW Pelham Fund II, L.P. (9/03)
Welsh, Carson, Anderson \& Stowe Capital Partners IV, L.P. (2/05)
49,426,405

William Blair Mezzanine Capital Fund II, L.P. (5/97)
William Blair Mezzanine Capital Fund III, L.P. (1/00)
6,773,854
6,519,843
33,772,105

Venture Capital
21 st Century Communications T-E Partners, L.P. (2/95)
276,862
Apex Investment Fund V, L.P. (8/03)
Carlyle Venture Partners II, L.P. (10/02)
Carlyle U.S. Growth Fund III, L.P. (6/07)
Edgewater Growth Capital Partners, L.P. (11/03)
Edgewater Growth Capital Partners II, L.P. (2/06)
Evergreen Partners IV, L.P. (12/02)
Evergreen Partners V, L.P. (6/07)
Granite Ventures II, L.P. (5/05)
HealthPoint Partners, L.P. (6/04)
Hopewell Ventures, L.P. (6/04)
Illinois Emerging Technologies Fund, L.P. (6/04)
JMI Equity Fund VII, L.P. (2/11)
Longitude Venture Partners, L.P. (3/08)
SCP Private Equity Partners, L.P. (5/97)
SCP Private Equity Partners II, L.P. (6/00)
Shasta Ventures, L.P. (1/05)
9,113,761
41,961,872
43,098,079
20,760,987
22,445,657
13,210,776
10,617,478
11,527,391
21,616,360
4,653,262
1,633,316
2,089,407
26,294,566

Starvest Partners, L.P. (1/09)
Technology Crossover Ventures VII, L.P. (10/08)
128,230
56,695,766
18,155,253

VantagePoint Venture Partners IV, L.P. (6/00)
5,622,117
18,564,223

VantagePoint Venture Partners 2006, L.P. (12/06)
45,476,406
Warburg Pincus International Partners, L.P. (9/00)
38,973,168
Warburg Pincus Private Equity IX, L.P. (9/05)
79,059,502

Warburg Pincus Private Equity X, L.P. (10/07)
104,843,818
WPG Enterprise Fund II, L.P. (8/94)
197,736,136
2,247,218
WPG Enterprise Fund III, L.P. (3/97)
8,944,505

## Discussion of Private Equity

TRS's private equity portfolio earned 22.3 percent, net of fees, through the fiscal year. While under its one-year benchmark, private equity outperformed on a five- and 10-year basis. The long-term performance strength of the private equity program and the asset class's diversification benefits the overall portfolio. TRS continues to prudently increase its exposure to private equity. In April 2011, the Board of Trustees adopted a new asset allocation study that increased the private equity allocation target to 12 percent. Successful implementation of this target is subject to many factors, including public market performance and sufficient availability of quality private equity opportunities in the market. The following chart provides a further breakdown of TRS's targeted style allocation as compared to the actual allocation at June 30, 2011.

## Private Equity Target and Actual Allocation as of June 30, 2011

| Subclasses | Target | Actual |
| :--- | :---: | :---: |
| Buyout | $60-80 \%$ | $58.7 \%$ |
| Venture capital | $5-20$ | 22.2 |
| Special situations/distressed debt/subordinated debt | $10-25$ | $\mathbf{1 9 . 1}$ |
|  |  | $\mathbf{1 0 0 . 0 \%}$ |

TRS made new commitments to 10 separate private equity funds totaling nearly $\$ 590$ million during the fiscal year. Included in this total were funds designed to strategically benefit during recessionary or distressed market environments. TRS remains opportunistic and continues to diversify its private equity portfolio for the global opportunity set. For FY1 2, the TRS private equity tactical plan calls for new commitments of approximately $\$ 900$ to $\$ 1,400$ million within the asset class.

## ABSOLUTE RETURN

The absolute return asset class includes mandates designed to provide attractive return and risk attributes while exhibiting low correlation to traditional public equity and fixed income investments. Along with the real return asset class, the absolute return class was established as a result of an asset allocation study adopted in FY07.

Investments in absolute return are administered via both direct investment manager relationships and diversified fund of funds. During the fiscal year, TRS began implementation of a program whereby the retirement system, with the assistance of existing fund of funds relationships, will build direct positions in higher conviction mandates.

The fiscal year target allocation for absolute return is 5.0 percent of the overall TRS investment portfolio. The asset class is measured against a relative risk-free index of 90-Day Treasury Bills +4.0 percent. While this is not an investible index, the benchmark represents the intended risk reduction characteristic of the asset class.

For the year ended June 30, 2011 , TRS's absolute return investment asset class earned 12.4 percent, net of fees, compared to the 4.2 percent return of the benchmark.

|  | FY11 | 3-Year |
| :--- | :---: | :---: |
| TRS, net of fees | $\mathbf{1 2 . 4} \%$ | $\mathbf{2 . 0} \%$ |
| Treasury Bill $+4 \%$ | 4.2 | 4.4 |

At June 30, 2011, 4.0 percent of TRS's investment portfolio was assigned to absolute return managers and TRS employed the following managers including their respective assets under management.

# Absolute Return Managers and Assets Under Management <br> (inception date of account) 

## Diversified Funds

Bridgewater Pure Alpha Fund I (1/09) \$380,231,003
Diversified Fund of Funds
Grosvenor Monarch Fund, L.L.C. (6/07) 397,560,365
K2 Bluegill Fund, L.L.C. (6/07) 577,176,785

## Direct Investment Funds

Grosvenor Monarch Fund, L.L.C. (Monarch Series B) (3/11) 50,465,502
K2 Bluegill Fund, L.L.C. (Bluegill Series B) (3/11) 51,078,950
Emerging Manager
Lasair Capital L.L.C. (8/09)
$29,053,387$
$\$ 1,485,565,992$

## Discussion of Absolute Return

The absolute return asset class performed reasonably well given the severity and volatility of the global market crisis and subsequent recovery. The absolute return portfolio outperformed its benchmark in FY1 1 due to strong performance of underlying managers combined with modest exposure to both the equity and credit markets. Longer term, this modest equity exposure also explains the lagging performance for the trailing three-year period. Importantly and consistent with the intent of the asset class, the absolute return portfolio continues to exhibit a low risk profile with volatility less than one-third that of U.S. equities. In April 2011, the Board of Trustees raised the long-term absolute return policy target by 3.0 percent to 8.0 percent of total fund.

## REAL ESTATE

Real estate investments are direct investments or ownership in land and buildings including apartments, offices, warehouses, shopping centers, and hotels. TRS also holds partnership interests in entities that purchase and manage property and pass rent and sale income back to TRS. Investment in real estate is intended to increase the TRS total portfolio long-term rate of return and reduce year-to-year volatility.

The real estate asset class offers competitive returns, provides diversification benefits to portfolios of stocks and bonds, and also serves as a hedge against inflation. Additionally, real estate offers a strong income component to pay TRS benefits.

As of June 30, 2011, TRS held $\$ 4.1$ billion in real estate assets, or 10.8 percent of the total fund portfolio. For the fiscal year, TRS's real estate investments earned 17.8 percent, net of fees. Real estate performance and benchmark comparisons are noted in the following table.

|  | FY11 | 3-Year | 5-Year | 10-Year |
| :--- | :--- | :--- | :---: | :---: |
| TRS, net of fees | $\mathbf{1 7 . 8 \%}$ | $(8.0 \%)$ | $0.4 \%$ | $\mathbf{6 . 2 \%}$ |
| Real Estate Property Index | 16.7 | $(2.6)$ | 3.4 | 7.6 |

To enhance returns and reduce risk, TRS acquires high quality properties diversified geographically and by property type. TRS's real estate holdings by type and geography are exhibited in the following charts.

## Real Estate Holdings by Type

 as of June 30, 2011
## Geographic Diversification

 of Real Estate Holdings as of June 30, 2011

Professional real estate advisors manage real estate owned by TRS. Separate account managers administer TRS's direct investments in real estate assets. Closed-end and open-end accounts represent partnership interests in real estate funds including TRS's international real estate accounts. As of June 30, 2011, TRS employed the following managers including their respective assets under management.

## Real Estate Managers and Assets Under Management (inception date of account)

## Separate Accounts

Capri/Capital Advisors, L.L.C. (12/91)
Cornerstone Real Estate Advisors, L.L.C. (7/08)
Cornerstone Real Estate Advisors, L.L.C. II (7/09)
Cornerstone Real Estate Advisors, L.L.C. III (8/09)
Heitman Capital Management, L.L.C. (7/09)
Invesco Institutional (N.A.), Inc. (7/08)
Koll Bren Schreiber Realty Advisors I (6/93)
LPC Realty Advisors I, Ltd. (7/92)
LPC Realty Advisors Core, Ltd. (4/07)

$$
\begin{array}{r}
\$ 773,186,870 \\
237,637,410 \\
10,597,160 \\
92,525,521 \\
888,947,923 \\
254,117,374 \\
314,195,751 \\
347,247,426 \\
101,908,735
\end{array}
$$

Closed-End Accounts
Beacon Capital Strategic Partners V, L.P. (8/07)
Blackstone Real Estate Partners VI, L.P. (9/07)
Capri Capital Advisors Apartment Fund III, L.P. (11/02)
38,219,664

Capri Select Income Fund II, L.L.C. (12/05)
Carlyle Realty Partners IV, L.P. (6/05)
Cornerstone Hotel Income \& Equity Fund II, L.P. (7/08)
JBC Opportunity Fund II, L.P. (5/03)
JER Real Estate Qualified Partners III, L.P. (1/05)
RLJ Lodging Fund II, L.P. (9/06)
53,073,443
138,033,145
4,454,380
42,166,340
14,784,506
16,628,882

RLJ Lodging Fund III, L.P. (9/08)
26,419,541

RLJ Lodging Fund III, L.P. (9/08)
30,617,630

Thayer Hotel Investors IV, L.P. (5/04)
32,735,223
7,729,832

Walton Street Real Estate Fund IV, L.P. (7/03) \$65,380,039
Walton Street Real Estate Fund VI, L.P. (4/09) 63,690,883
Open-End Accounts
Hines U.S. Core Office Fund, L.P. (12/05) 157,751,662
Lion Industrial Trust (4/05) 153,502,161
International Real Estate Accounts
Carlyle Europe Real Estate Partners, L.P. (6/03) 10,639,923
Carlyle Europe Real Estate Partners III, L.P. (9/07) 40,520,982
CB Richard Ellis Strategic Partners Europe Fund III, L.P. (4/07) 35,428,127
CB Richard Ellis Strategic Partners UK Fund III, L.P. (5/07) 12,174,561
LaSalle Asia Opportunity Fund III, L.P. (1 1/07) 26,938,211
MGPA Asia Fund III, L.P. (12/07)
$62,574,616$
$\$ 4,062,261,189$

## Discussion of Real Estate

TRS's real estate portfolio earned 17.8 percent during the fiscal year. Following a couple very challenging years for the asset class due to the global financial crisis, commercial real estate markets have steadily improved for the past several quarters. Market fundamentals such as property level income, rental rates, and sales have been improving in core markets such as New York, Boston, and Washington D.C., while secondary and tertiary markets have been slower to recover. Investors have demonstrated a flight to quality that has driven core values higher and led to improving near term performance. The TRS investment portfolio maintains a long-term target allocation of 14 percent to real estate and is currently 10.8 percent invested in the asset class. The portfolio will continue its efforts to move toward the long-term allocation through strategic allocations and opportunistically taking advantage of the property transaction market.

## SECURITIES LENDING

TRS participates in securities lending with its custodian, State Street Bank and Trust Company, acting as the securities lending agent. The Board of Trustees' policies permit TRS to use investments to enter into securities lending transactions, which are loans of securities to broker-dealers or other entities. Additional information regarding securities lending activity is included in the Notes to Financial Statements under "D. Investments."

For the year ended June 30, 2011 , TRS earned net income of $\$ 17.8$ million through its securities lending program. The income from this program was less than the prior fiscal year mainly due to a decrease in the average on loan balance. The Securities Lending Summary table outlines the net income from securities lending activity, the securities on loan, the amount of collateral for these securities, and the average utilization rate information.

## Securities Lending Summary

|  | FY11 | FY10 |
| :--- | ---: | ---: |
| Net securities lending income | $\$ 17,793,331$ | $\$ 21,111,429$ |
| Values as of fiscal year-end (June 30): |  |  |
| Total State Street collateral market value | $3,217,193,460$ | $3,568,594,875$ |
| Total market value of securities on loan at State Street | $3,132,542,532$ | $3,473,627,126$ |
| Total collateralized percentage | $103 \%$ | $103 \%$ |
| Fiscal year 12 month averages: |  |  |
| Average lendable | $17,791,565,341$ | $16,747,267,594$ |
| Average on loan | $3,329,090,638$ | $3,891,585,303$ |
| Average utilization | $18.7 \%$ | $23.2 \%$ |

## BROKERAGE ACTIVITY

The following table shows the top 50 listed brokers used by TRS external equity managers for the years ended June 30,2011 and 2010. TRS also manages a commission recapture program as part of its trading strategies. For the year ended June 30,2011 , TRS recaptured $\$ 0.9$ million in cash that was reinvested in the fund. In addition, TRS uses a portion of these commission recapture refunds to pay for Investment Department expenses. During FY11, TRS used $\$ 0.6$ million of recaptured funds to offset expenditures.

## Top 50 Brokers Used by TRS Managers



| Commission | Commission |
| ---: | ---: |
| $\$ 108,314$ | $\$ 242,140$ |
| 104,647 | 331,741 |
| 101,543 | 38,237 |
| 100,592 | 141,868 |
| 95,485 | 50,313 |
| 91,439 | 57,452 |
| 91,037 | 67,482 |
| 88,622 | 76,753 |
| 88,154 | 101,407 |
| 79,202 | 98,568 |
| 76,942 | 51,349 |
| 74,917 | 72,133 |
| 72,333 | 79,772 |
| 70,967 | 128,526 |
| $3,425,371$ | $4,157,393$ |
| $\mathbf{\$ 2 2 , 4 6 1 , 1 4 7}$ | $\mathbf{\$ 2 3 , 1 5 5 , 9 5 0}$ |

Source: State Street Bank and Trust and TRS

## EXTERNAL MANAGER FEE PAYMENTS

For the year ended June 30, 2011, fee payments to external investment managers totaled $\$ 188.3$ million, an increase of 3.5 percent from the year ended June 30,2010 . The rise is attributable to the increase in public funds asset values and the respective fees that are based on average asset values.

## Schedule of Investment Manager Fees

Investment Manager/Account
FY11
FY10
Aberdeen Asset Management, Inc.
Advent International GPE VI, L.P.
American Century Global Investment Management, Inc.
Analytic Investors, L.L.C.
Apex Investment Fund V, L.P.
Apollo Investment Fund VII, L.P.
AQR Capital Management, L.L.C.
AQR Global Risk Premium Tactical Offshore Fund II, Ltd.
Avenue Europe Special Situations Fund, L.P.
Avenue Special Situations Fund V, L.P.
Banc Fund VI, L.P.
Banc Fund VII, L.P.
Baring Asia Private Equity Fund V
BlackRock, Inc.
Blackstone Capital Partners VI, L.P.
Blackstone Real Estate Partners VI, L.P.
Blackstone/GSO Capital Solutions Fund, L.P.
Boston Company Asset Management, L.L.C.
Brandes Investment Partners, L.P.
Bridgewater All Weather Portfolio Offshore Limited
Bridgewater Pure Alpha Fund I
Capri Select Income II, L.L.C.
Capri/Capital Advisors, L.L.C.
Capri Capital Advisors Apartment Fund III, L.P.
Carlyle Europe Real Estate Partners III, L.P.

| $\$ 3,181,347$ | $\$ 1,989,881$ |
| ---: | ---: |
| 976,430 | 978,929 |
| $1,541,838$ | $1,265,207$ |
| 769,938 | $2,129,975$ |
| 300,573 | 376,002 |
| $4,224,498$ | 903,212 |
| $1,482,883$ | $1,541,928$ |
| $2,899,979$ | $2,061,817$ |
| 634,705 | 571,271 |
| $1,228,273$ | $1,500,000$ |
| $1,001,875$ | $1,001,875$ |
| 901,200 | 865,200 |
| 933,333 | 0 |
| 0 | 711,721 |
| 925,442 | 0 |
| 746,421 | 742,219 |
| 20,417 | 0 |
| $3,078,727$ | $2,520,364$ |
| $3,591,290$ | $3,504,649$ |
| $2,140,032$ | $1,787,315$ |
| $10,372,005$ | $7,204,655$ |
| 56,695 | 171,583 |
| $2,395,282$ | $2,189,723$ |
| $1,496,984$ | $1,496,984$ |
| 905,572 | $1,162,718$ |
|  | (continued) |

Carlyle Europe Real Estate Partners, L.P.
Carlyle Partners IV, L.P.
Carlyle Partners V, L.P.
Carlyle Realty Partners IV, L.P.
Carlyle Strategic Partners, L.P.
Carlyle U.S. Growth Fund III, L.P.
Carlyle Ventures Capital II, L.P.
Carlyle/Riverstone Global Energy Fund II, L.P.
Carlyle/Riverstone Global Energy Fund III, L.P.
Castle Harlan Partners IV, L.P.
CB Richards Ellis Strategic Partners Europe Fund III, L.P.
CB Richards Ellis Strategic Partners UK Fund III, L.P.
Clearlake Capital Partners II, L.P.
Code Hennessy \& Simmons V, L.P.
Copper Rock Capital Partners, L.L.C.
Cornerstone Hotel Income \& Equity Fund II, L.P.
Cornerstone Real Estate Advisors, L.L.C.
Cramer Rosenthal McGlynn, L.L.C.
Credo Capital Management, L.L.C.
Denali Advisors, L.L.C.
Dimensional Fund Advisors, L.P.
DLJ Merchant Banking Partners II, L.P.
DLJ Merchant Banking Partners III, L.P.
Dodge \& Cox
Dolan McEniry Capital Management, L.L.C.
EARNEST Partners, L.L.C.
Edgewater Growth Capital Partners II, L.P.
Edgewater Growth Capital Partners, L.P.
Elevation Partners, L.P.
Emerald Advisers, Inc.
Energy Capital Partners I, L.P.
Energy Capital Partners Fund II-A, L.P.
Enervest Energy Institutional Fund XII-A, L.P.
EQT VI
Evercore Capital Partners II, L.P.
Evergreen Partners IV, L.P.
Evergreen Partners V, L.P.
Fiduciary Management Associates, L.L.C.
Franklin Advisers, Inc.
Franklin Templeton Investment Management Limited
Fred Alger Management, Inc.
Frontier Capital Management, L.L.C.
Garcia Hamilton \& Associates, L.P.
GI Partners
Glencoe Capital Partners III, L.P.
Goldman Sachs Asset Management, L.P.
Granite Ventures II, L.P.
Grantham, Mayo, Van Otterloo \& Co., L.L.C.
Green Equity Investors V, L.P.
Gresham Investment Management Company, L.L.C.
Grosvenor Monarch Fund, L.L.C.
GTCR Fund VII/VIIA, L.P.
GTCR Fund VIII, L.P.
Hartford Investment Management Company
HealthPoint Partners, L.P.
Heitman Capital Management, L.L.C.
Herndon Capital Management, L.L.C.

FY11
\$436,099
584,960
2,324,097
890,346
140,160
1,000,000
1,461,096
584,219
712,979
2,876
696,857
452,674
485,005
97,218
1,206,170
138,722
1,509,955
902,144
171,090
293,185
1,321,435
23,860
479,467
1,314,471
470,531
1,152,749
242,096
274,846
375,000
1,200,609
646,544
630,502
667,913
1,148,352
134,092
116,563
219,582
625,000
1,078,197
2,207,935
939,284
1,258,686
1,163,594 65,764
613,565
85,535
1,307,267
378,538
6,459,866
533,714
478,261
2,845,281 38,562
413,718
73,084
435,512
3,763,605
52,227

0

215,322
445,089
625,000
295,631
1,872,069
0
895,507
989,560
3,367
744,058
171,969
1,529,539 500,000
6,542,346
1,439,805
412,856
2,174,773
299,788
385,289
471,894
3,839,244
J.C. Flowers II, L.P.

Jarislowsky, Fraser Limited
JBC Opportunity Fund II, L.P.
JER Real Estate Qualified Partners III, L.P.
JMI Equity Fund VII, L.P.
JP Morgan Investment Management, Inc.
JP Morgan Management Associates, L.L.C.
K2 Bluegill Fund, L.L.C.
KKR 1996 Fund, L.P.
Koll Bren Schreiber Realty Advisors
Lasair Capital L.L.C.
LaSalle Asia Opportunity Fund III, L.P.
Levin Capital Strategies, L.P.
Lion Industrial Trust
Littlejohn Fund IV, L.P.
LM Capital Group, L.L.C.
Lombardia Capital Partners, L.L.C.
Longitude Ventures Partners, L.P.
Loomis, Sayles \& Company, L.P.
LPC Realty Advisors I, Ltd.
LSV Asset Management
Madison Dearborn V, L.P.
Maranon Mezzanine Fund, L.P.
MatlinPatterson Global Opportunities Fund III, L.P.
Mazama Capital Management, Inc.
MBK Partners Fund II, L.P.
McKinley Capital Management, Inc.
Merit Mezzanine Fund IV, L.P.
MFS Institutional Advisors, Inc.
MGPA Asia Fund III, L.P.
Mondrian Investment Partners Limited
Morgan Creek Partners Asia, L.P.
New Century Advisors, L.L.C.
New Mountain Investments III, L.P.
Northern Trust Investments, N.A.
OakBrook Investments, L.L.C.
Oaktree PPIP Private Fund, L.P.
OCM European Principal Opportunities Fund II, L.P.
OCM Opportunities Fund V, L.P.
OCM Opportunities Fund VIlb, L.P.
OCM Opportunities Fund VIII, L.P.
Onex Partners III, L.P.
Pacific Investment Management Company, L.L.C.
PAI Europe V, L.P.
Piedmont Investment Advisors, L.L.C.
PIMCO Private Funds II, L.P.
Pine Brook Capital Partners, L.P.
Prism Mezzanine Fund, L.P.
Providence Equity Partners VI, L.P.
Prudential Investment Management, Inc.
Putnam Advisory Company, L.L.C.

| $\$ 850,000$ | $\$ 850,000$ |
| ---: | ---: |
| 132,331 | 139,475 |
| 325,379 | 334,891 |

325,379 334,891

235,571 250,330
15,922 16,826
1,156,164 $\quad 1,195,606$
294,997 188,221
825,264 803,525
248,972 333,580
306,499 387,040
131,246
93,645
3,725,854
4,446, 118
27,883
970,193
288,125
845,392
436,368
1,534,004
765,276
81,855
1,348,933
750,000
3,766,996
1,496,229
1,628,460 2,019,214
382,992 493,820
267,912 444,178
1,572,146 1,497,631
622,536 1,351,606
412,655
2,033,636 2,345,934
689,075 862,331
$\begin{array}{lr}378,174 & 0 \\ 986,257 & 1,140,064\end{array}$
1,829,899 1,883,660
1,031,662 0
291,284 179,635
1,353,490 $\quad 1,475,272$
171,392 82,133 56,365
$1,232,492 \quad 1,089,768$
120,106 28,672
1,434,389 1,528,326
1,359,192 1,105,020
486,183 404,595
8,755,933 $\quad 11,403,390$
463,989 790,519
61,856 197,501
39,317
851,546
77,584
851,546
589,532
1,478,605
500,731
971,850

| Investment Ma | FY11 | FY10 |
| :---: | :---: | :---: |
| Ranger Investment Management | \$0 | \$72,860 |
| RhumbLine Advisers, L.P. | 180,932 | 127,342 |
| Riverstone/Carlyle Global Energy and Power Fund IV, L.P. | 1,329,465 | 1,227,062 |
| RLJ Lodging Fund II, L.P. | 533,007 | 610,108 |
| RLJ Lodging Fund III, L.P. | 485,392 | 625,000 |
| Robeco Boston Partners Asset Management, L.P. | 1,019,991 | 967,568 |
| Schroder Commodity Offshore Portfolio, L.L.P. | 1,853,483 | 1,306,276 |
| SCP Private Equity Partners II, L.P. | 796,730 | 935,599 |
| Shasta Ventures, L.P. | 4,154,514 | 0 |
| Silver Lake Partners III, L.P. | 622,196 | 1,052,524 |
| StarVest Partners, L.P. | 250,000 | 300,000 |
| State Street Bank and Trust Company (Custody) | 200,000 | 235,065 |
| State Street Global Advisors | 94,552 | 729,760 |
| Stone Point Capital Trident V, L.P. | 1,077,271 | 0 |
| Strategic Global Advisors | 49,074 | 0 |
| SW Pelham Fund II, L.P. | 92,626 | 365,625 |
| T. Rowe Price Associates, Inc. | 3,594,133 | 3,500,373 |
| Taplin, Canida \& Habacht | 510,161 | 604,525 |
| Technology Crossover Ventures VII, L.P. | 786,617 | 1,093,462 |
| Thayer Equity Investors V, L.P. | 159,872 | 395,470 |
| Thayer Hotel Investors IV, L.P. | 183,142 | 90,988 |
| Thompson, Siegel \& Walmsley, Inc. | 427,136 | 1,290,579 |
| TPG Partners VI, L.P. | 1,217,790 | 1,408,193 |
| Trilantic Capital Partners III, L.P. | 214,917 | 295,136 |
| Trilantic Capital Partners IV, L.P. | 571,987 | 571,987 |
| Trilogy Global Advisors, L.L.C. | 1,311,811 | 1,142,673 |
| Turner Investment Partners, Inc. | 1,823,081 | 2,082,745 |
| Tygh Capital Management, Inc. | 479,247 | 1,474,442 |
| VantagePoint Venture Partners 2006, L.P. | 1,295,496 | 972,953 |
| VantagePoint Venture Partners IV, L.P. | 0 | 255,095 |
| Veritas Capital Fund IV, L.P. | 216,339 | 0 |
| Vicente Capital Partners Growth Equity Fund, L.P. | 300,000 | 300,000 |
| Vista Equity Partners III, L.P. | 570,546 | 688,224 |
| VSS Communications Partners IV, L.P. | 658,068 | 850,842 |
| Walton Street Real Estate Fund IV, L.P. | 687,631 | 805,505 |
| Walton Street Real Estate Fund VI, L.P. | 812,211 | 484,725 |
| Warburg Pincus International Partners, L.P. | 442,046 | 1,045,441 |
| Warburg Pincus Private Equity IX, L.P. | 1,430,963 | 4,372,416 |
| Warburg Pincus Private Equity X, L.P. | 3,303,398 | 3,748,177 |
| Wellington Management Company |  |  |
| Diversified Inflation Hedges Portfolio, L.L.C. | 5,026,566 | 4,458,075 |
| Wellington Management Company, L.P. | 1,159,914 | 1,134,716 |
| Welsh, Carson, Anderson \& Stowe Capital Partners IV, L.P. | 520,144 | 484,635 |
| Welsh, Carson, Anderson \& Stowe Capital Partners X, L.P. | 303,267 | 264,186 |
| Western Asset Management Company | 181,033 | 354,796 |
| William Blair Mezzanine Capital Fund III, L.P. | 142,940 | 139,235 |
| WPG Corporate Development Associates V, L.P. | 9,025 | 10,682 |
| WPG Enterprise Fund II, L.P. | 25,539 | 56,151 |
| WPG Enterprise Fund III, L.P. | 134,998 | 135,727 |
| Total Fees Paid by TRS | \$188,274,897 | \$181,928,252 |

Note: This schedule captures investment manager fees applicable to the fiscal year(s) reported and differs from investment fees reported within the Financial Section.

By law, active members contribute 9.4 percent of their salary toward their pension.
In FY11, teacher contributions paid for more than half of the $\$ 1.7$ billion total cost of benefits because the 9.4 percent member contribution is more than half the total cost of current pensions. The remaining 8.6 percent is split between state and employer contributions.

## 362,121 TOTAL MEMBERS



Only six states have a higher teacher pension contribution rate than the 9.4 percent TRS members pay: Kentucky, Missouri, Nevada, Ohio, Rhode Island, and Vermont.


December 7, 2011

Board of Trustees
Teachers' Retirement System
of the State of Illinois
2815 West Washington Street
Springfield, Illinois 62794

## Subject: Pension Benefit Obligation as of June 30, 2011

Ladies \& Gentlemen:
Based upon our annual actuarial valuation of the Teachers' Retirement System of the State of Illinois, we have determined the pension benefit obligation of the System to be $\$ 81,299,745,000$ as of June 30, 2011. The valuation was performed using the projected unit-credit actuarial cost method. Throughout the actuarial valuation report we reference the term Pension Benefit Obligation (PBO) when discussing the TRS actuarial accrued liability (AAL) because the TRS AAL is equivalent to the GASB Statement 5 PBO. Users of the TRS actuarial valuation report should consider the terms PBO and AAL to be equivalent and interchangeable.

The actuarial valuation was based on a census of retired members as of June 30, 2011, and a census of active and inactive members as of June 30, 2010, which were submitted to us by the System. While we did not verify the data at their source, we did perform tests for internal consistency and reasonability in relation to the data submitted for the previous valuation. In accordance with our normal procedures, we adjusted for the one-year lag in reporting of the active and terminated membership by assuming that the population was stationary with regard to age and service and by increasing reported payroll and member account balances by $4 \%$. This increase is based on the increase in payroll from the prior year to the current year.

Presented in the Financial Section of the System's Annual Financial Report, there is a schedule of Required Supplementary Information. The actuary has provided the Unfunded Actuarial Accrued Liability, the Annual Required Contribution per State Statute, and the GASB Statement No. 25 Annual Required Contribution that appear in this section. The actuary reviewed the remainder of the figures that appear in the Required Supplementary Information to ensure their consistency with the valuation report.

The Actuarial Section of the Annual Financial Report also contains various schedules: Actuarial Valuation with Actuarial Value of Assets, Reconciliation of Unfunded Liability, State Funding Amounts, Funded Ratio Test, Unfunded Liability as a Percentage of Payroll Test and Solvency Test. While the actuary did not prepare these schedules, they are in agreement with the valuation report and their accuracy has been verified. The actuary neither reviewed nor prepared any items beyond those specifically listed in this paragraph and the preceding paragraph.

The contributions to the System are based on the provisions of Public Act 94-0004, as amended by subsequent acts. The actuary and the Board are required to follow Public Act 94-0004 for purposes of developing contributions to the System. Public Act 94-0004 has resulted in contributions to the System much less than those that would be contributed under a prudent funding policy. Under a prudent funding policy, a funded ratio of $100 \%$ would be achieved within 30 years as opposed to the $90 \%$ funded ratio achieved by 2045 under Public Act 94-0004. In addition, under a prudent funding policy contributions would not be based on members not currently in the System as is done under Public Act 94-0004, particularly given the lower value of Tier II benefits in the System for members hired on or after

Board of Trustees
Teachers' Retirement System
of the State of Illinois
December 7, 2011
Page 2
January 1, 2011. Finally, under a prudent policy, contributions to the System would not be arbitrarily lowered as they were in fiscal year 2006 and 2007 when the state specified the amount. The continued use of Public Act 94-0004 in its current form will continue the history of an inadequate funded ratio of less than $100 \%$. It should be noted that at least one of the undersigned has made this message very clear in public forums several times in the past. In addition, the Net Pension Obligation clearly exhibits the shortfall of the Public Act 94-0004 contributions when compared to the GASB $25 / 27$ ARC, which is a prudent funding policy.

At June 30, 2011 the remaining GASB amortization period is 30 years. The actuarial assumptions, actuarial cost method, and asset valuation method used for funding purposes do meet the parameters of GASB Statement No. 25

The valuation is based on the benefit provisions of TRS in effect on June 30, 2011. The actuarial assumptions used in the valuation are those specified by the Board of Trustees of the System based on recommendations made by the actuary. The actuarial assumptions used for the June 30, 2011 actuarial valuation are unchanged from the June 30, 2010 actuarial valuation. As required under PA 96 0043, the method for determining the actuarial value of assets used to determine the employer contribution rate was changed beginning with the June 30, 2009 valuation from market value to a smoothed value. The smoothed value recognizes actuarial investment gains or losses for each fiscal year in equal amounts over the ensuing five-year period. The System incurred a gain of $\$ 4,618,217,733$ in FY 2011. Per statutory requirement, $20 \%$ is recognized in the actuarial value of assets as of June 30, 2011, and recognition of the remaining $80 \%$, or $\$ 3,694,574186$, will be deferred and recognized in equal amounts over the next four valuations. Depending on the whether the total net deferral is an investment gain or loss, the smoothing method will produce a contribution rate that is more or less than the rate based on the market value As of the June 30, 2011 valuation the total net deferral is a $\$ 298,485,778$ loss, resulting in a contribution that is lower than it would be if the assets were valued at market.

The valuation was prepared under the supervision of Larry Langer in accordance with generally accepted actuarial principles and practice, and peer reviewed by Paul Wilkinson. To the best of our knowledge, it is complete and accurate. Mr. Langer and Mr. Wilkinson are members of the American Academy of Actuaries and meet the Academy's Qualification Standards to render the actuarial opinion contained herein.

Sincerely,


Larry Langer
Principal, Consulting Actuary
LL/PW:pl

[^2]
## Paul Rulakinom

Paul R. Wilkinson, Director, Consulting Actuary

Actuaries estimate the cost of benefits members and survivors will receive over their lifetimes and calculate the amount that should be set aside each year to fund them.

TRS complies with the requirements issued by the Governmental Accounting Standards Board (GASB) under Statement No. 25, Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans, as amended by GASB Statement No. 50.

## ACTUARIAL ASSUMPTIONS AND METHODS

Each year the actuary reconciles the differences between major actuarial assumptions and experience to explain the change in TRS's unfunded liability. The unfunded liability is the difference between the accrued liability (the present value of benefits including the cost of annual increases) and the assets that are available to cover the liability. Many of the following assumptions were revised in the 2007 actuarial experience analysis. Additional assumptions for new hires who will be covered by Public Act 96-0889 were adopted in the 2010 actuarial valuation. While the new hire ("Tier II") assumptions do not apply to current ("Tier I") participants, they were adopted in order to develop funding projections through FY45 as well as state funding requirements.

Inflation: 3.5 percent per annum. Implicit in investment and earnings progression assumptions. Adopted in the FYO2 valuation.

Investment return: 8.5 percent per annum, compounded annually. Adopted in the FY97 valuation. Components revised in FYO2 valuation: inflation 3.5 percent, real return 5.0 percent, with overall 8.5 percent assumption retained.

Real wage growth (productivity): 1.2\%. Adopted in the FYO2 valuation. No change for Tier II.
Earnings progression: Merit and longevity increases, adjusted for inflation. Approximates 7.0 percent per year over a typical career. Adopted in the FYO7 valuation. No change for Tier II.

The following rates include the inflation and real wage growth (productivity) assumptions.
Sample annual percentage salary increases:

| Age | Male and Female |
| ---: | :---: |
| 25 | $10.2 \%$ |
| 30 | 8.4 |
| 40 | 7.2 |
| 50 and above | 6.0 |

Retirement age: Graduated rates based on age and service of active members. Tier I rates adopted in the FYO7 valuation. Tier II rates adopted in the FY10 valuation.

Sample annual retirement rates per 100 participants:
a) Tier I, for those entering service before January 1, 2011 (includes ERO retirees):

Years of Service

| Age | $\mathbf{5 - 1 8}$ | $\mathbf{1 9 - 3 0}$ | $\mathbf{3 1}$ | $\mathbf{3 2 - 3 3}$ | $\mathbf{3 4}$ |
| :---: | ---: | ---: | ---: | ---: | ---: |
| 54 | - | 7 | 12 | 38 | 40 |
| 55 | - | 12 | 20 | 38 | 40 |
| 60 | 14 | 27 | 45 | 45 | 37 |
| 65 | 23 | 33 | 45 | 45 | 30 |
| 70 | 100 | 100 | 100 | 100 | 100 |

b) Tier II, for those entering service on or after January 1, 2011:

|  | Years of Service |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: |
| Age | $\mathbf{5 - 1 8}$ | $\mathbf{1 9 - 3 0}$ | $\mathbf{3 1}$ | $\mathbf{3 2 - 3 3}$ | $\mathbf{3 4}$ |
| 61 | 13 | 15 | 20 | 25 | 25 |
| 65 | 20 | 10 | 15 | 20 | 20 |
| 67 | 20 | 40 | 40 | 40 | 40 |
| 70 | 100 | 100 | 100 | 100 | 100 |

Utilization of ERO among Tier I members retiring from active service:

| Years of Service <br> on June 30 <br> prior to Retirement | $\mathbf{5 4}$ | $\mathbf{5 5}$ | $\mathbf{5 6}$ | $\mathbf{5 7}$ | $\mathbf{5 8}$ | $\mathbf{5 9}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $19-30$ | $63 \%$ | $70 \%$ | $69 \%$ | $65 \%$ | $63 \%$ | $25 \%$ |
| 31 | 72 | 72 | 71 | 71 | 71 | 38 |
| 32 | 66 | 68 | 68 | 67 | 66 | 45 |
| 33 | 66 | 68 | 68 | 67 | 66 | 45 |

Mortality: Rates for all groups adapted in the FYO7 valuation. No change for Tier II.
For retirees, the 1995 Buck Mortality tables projected 16 years for males and one year for females as of June 30, 2007. For beneficiaries, projected one year for both males and females, then rated forward two years for males and forward one year for females as of June 30, 2007. Projected mortality improvements using Society of Actuaries Mortality Projection Scale AA were phased in over the four year period that began July 1, 2007.

Sample active member annual death rates per 100 participants (mortality improvements fully phased-in):

| Age | Male | Female |
| ---: | ---: | :--- |
| 25 | 0.057 | 0.013 |
| 30 | 0.059 | 0.017 |
| 40 | 0.082 | 0.041 |
| 50 | 0.152 | 0.100 |
| 55 | 0.240 | 0.153 |
| 60 | 0.473 | 0.234 |
| 65 | 0.951 | 0.486 |

Disability: Tier I rates adopted in the FYO7 valuation. Tier II rates adopted in the FY10 valuation.
Sample annual disability rates per 100 participants:
Tier I Members
Tier II Members

| Age | Male | Female |  | Male |
| :---: | :---: | :---: | :---: | :---: |
| 25 | 0.034 | 0.045 | 0.102 | 0.135 |
| 30 | 0.030 | 0.100 | 0.090 | 0.300 |
| 40 | 0.060 | 0.110 | 0.180 | 0.330 |
| 50 | 0.110 | 0.190 | 0.330 | 0.570 |
| 55 | 0.130 | 0.200 | 0.390 | 0.600 |
| 60 | 0.200 | 0.350 | 0.600 | 1.050 |
| 65 | 0.600 | 1.500 | 1.800 | 4.500 |

Termination from active service: Tier I rates adopted in FYO7 valuation. Tier II rates adopted in FY 10 valuation.

Sample annual termination rates per 100 participants:
Tier I

|  | Nonvested Members |  | Vested Members |  |
| :---: | :---: | :---: | :---: | :---: |
| Age | Male | Female | Male | Female |
| 25 | 7.0 | 8.1 | 6.0 | 9.0 |
| 30 | 6.5 | 9.0 | 3.7 | 8.0 |
| 40 | 8.0 | 6.6 | 1.6 | 2.4 |
| 50 | 9.4 | 6.2 | 1.1 | 1.3 |
| 55 | 12.0 | 8.7 | 1.4 | 1.7 |
| 60 | 12.6 | 11.1 | 2.6 | 2.9 |
| 65 | 12.6 | 11.1 | 3.1 | 3.0 |


| Nonvested Members |  | Vested Members |  |
| :---: | :---: | :---: | :---: |
| Male | Female | Male | Female |
| 7.0 | 8.1 | 6.0 | 9.0 |
| 6.5 | 9.0 | 3.7 | 8.0 |
| 8.0 | 6.6 | 1.6 | 2.4 |
| 9.4 | 6.2 | 1.1 | 1.3 |
| 12.0 | 8.7 | 10.0 | 12.0 |
| 12.6 | 11.1 | 3.0 | 3.2 |
| 12.6 | 11.1 | 3.1 | 3.0 |

Severance pay: Increases with years of service at retirement, adjusted in the following table. Adopted in the FYO7 valuation. Not applicable to Tier II.

| Years of Service <br> at Retirement | Percent Retiring <br> with Severance Pay | Severance Pay as a <br> Percent of Final Salary |
| ---: | :---: | ---: |
| $10-20$ | $41 \%$ | $13.81 \%$ |
| $20-24$ | 52 | 13.24 |
| $25-29$ | 58 | 14.29 |
| 30 or more | 75 | 15.35 |

The percentages in the preceding "percent retiring with severance pay" column were multiplied by 33.3 percent in FY10 and will be multiplied by 10 percent for retirements assumed to occur in FY11 and later because the percent of members retiring with severance is expected to decrease.

Optional service at retirement: The accrued liability for retirement benefits for active members who have not previously purchased optional service is increased to cover the employer cost of optional service purchased in the last two years of service. Sample purchases at retirement follow. Adopted in the FYO7 valuation. No change for Tier II.

| Years of Regular <br> Service at Retirement | Maximum Service <br> Purchased |
| ---: | ---: |
| 10 | 0.388 years |
| 20 | 1.131 years |
| 25 | 1.245 years |
| 30 | 0.886 years |
| 34 or more | None |

Unused and uncompensated sick leave: Varies by the amount of regular service at retirement. Adopted in the FYO7 valuation. No change for Tier II.

Sample amount of sick leave at retirement:

| Years of Service <br> at Retirement | Sick Leave <br> Service Credit |
| ---: | ---: |
| 20 | 1.080 years |
| 25 | 1.224 years |
| 30 | 1.277 years |
| 34 | 1.000 years |
| 35 or more | none |

Actuarial cost method: Projected unit credit. Gains and losses are reflected in the unfunded liability. Adopted in the FY89 valuation.

Asset valuation method: Five-year prospective asset smoothing was adopted in the FY 09 valuation as required by Public Act 96-0043.

## ANNUAL ACTUARIAL VALUATION

The annual actuarial valuation measures the total liability for all benefits earned to date. The accrued liability is a present value estimate of all the benefits that have been earned to date but not yet paid. The unfunded liability is the present value of future benefits payable that are not covered by the actuarial value of assets on the valuation date.

The funded ratio shows the percentage of the accrued liability covered by actuarial value of assets.

## Actuarial Valuation (\$ thousands)

|  | Years Ended June 30 |  |
| :--- | ---: | ---: |
|  | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 0}$ |
| Total actuarial accrued liability | $\mathbf{\$ 8 1 , 2 9 9 , 7 4 5}$ | $\mathbf{\$ 7 7 , 2 9 3 , 1 9 8}$ |
| Less actuarial value of assets* | $\mathbf{3 7 , 7 6 9 , 7 5 3}$ | $\underline{37,439,092}$ |
| Unfunded liability | $\mathbf{\$ 4 3 , 5 2 9 , 9 9 2}$ | $\$ 39,854,106$ |
| Funded ratio* | $46.5 \%$ | $48.4 \%$ |

* Five-year prospective smoothing began in FY09.


## ANALYSIS OF FINANCIAL EXPERIENCE: RECONCILIATION OF UNFUNDED LIABILITY

The net increase in the June 30, 2011, unfunded liability of $\$ 3.6$ billion was caused by a combination of factors.
The employer cost in excess of contributions is the shortfall between actual employer contributions and the amount needed to cover the cost of benefits earned during the year and to keep the unfunded liability from growing. In 2011 , this shortfall was $\$ 1.9$ billion and in 2010 it was $\$ 1.6$ billion.

TRS experienced actuarial gains under the salary increase assumption in both FY1 1 and FY10. Salary increases for continuing active members were $\$ 546$ million lower than expected in 2011 and $\$ 210$ million lower than expected in 2010. Under the investment return assumption, losses occurred both years. In FY11, smoothed assets were assumed to earn $\$ 3.1$ billion, but earnings were actually $\$ 1.4$ billion. The actuarial loss due to investments was $\$ 1.7$ billion in FY11, compared to a loss of $\$ 2.9$ billion in FY10.

In both years, actuarial losses occurred under the mortality assumptions because fewer people died than expected. Actuarial losses were also incurred under the turnover assumption because fewer people left service than assumed. Additionally, many members repaid refunds, and the repurchased service increased the unfunded liability. Delayed reporting of retirements also increased the unfunded liability because more people were receiving benefits than expected.

Other, which is a balancing item, reflects actuarial losses in both 2011 and 2010. "Other" includes the effect of either more or fewer retirements than expected, retirements that were reported late to the actuary, and several other factors.

Reconciliation of Unfunded Liability (\$ thousands)

|  | Years Ended June 30 |  |
| :---: | :---: | :---: |
|  | 2011 | 2010 |
| Unfunded liability at beginning of year | \$39,854,106 | \$35,001,154 |
| Additions <br> Employer cost in excess of contributions | 1,913,647 | 1,572,252 |
| Actuarial losses (gains) <br> Salary increases for continuing active members | $(545,612)$ | (210,215) |
| Investment return | 1,718,405 | 2,929,300 |
| New entrant loss | 21,230 | 26,484 |
| Mortality other than expected | 52,319 | 40,736 |
| Fewer terminations than expected | 50,761 | 42,044 |
| Repayments of refunded member contributions ${ }^{1}$ | 30,392 | 27,030 |
| Delayed reporting of retirements (effect on assets) ${ }^{2}$ | 11,222 | 10,974 |
| Other | 423,522 | 414,347 |
| Net actuarial losses | 1,762,239 | 3,280,700 |
| Unfunded liability at end of year | \$43,529,992 | \$39,854,106 |

1 Includes the employer-paid portion of the benefit that was restored when members repaid previously refunded contributions.
2460 retirements which occurred prior to $7 / 1 / 09$ were not reported to the actuary until 6/30/10.
509 retirements which occurred prior to $7 / 1 / 10$ were not reported to the actuary until 6/30/11.

## STATE FUNDING

Public Act 88-0593 was enacted in 1994 and first affected state contributions in FY96. The law established a 50 -year funding plan that includes a 15 -year phase-in period. Contributions were gradually increased to a percentage level of active member payroll during the phase-in period, with the exceptions noted below. By the end of the funding period in FY45, TRS will have a 90 percent funded ratio. A key feature of this act is the "continuing appropriation" language that requires state contributions to be made automatically to TRS, provided state funds are available.

Public Act 90-0582, the 2.2 legislation, was enacted in 1998 and first affected state contributions in FY99. The act established minimum state contribution rates so that the state's cost of the formula change would be paid as a level percent of pay instead of being phased in. Those minimum state contribution rates were in effect from FY99 through FYO4.

Public Act 93-0002, the pension obligation bond (POB) legislation, was enacted in 2003 and first affected state contributions in FYO5. The TRS share of the proceeds, $\$ 4.330$ billion, was deposited on July 2, 2003.

The FYO5 state contribution to TRS was reduced by the system's share of the POB debt service. The calculation was performed through a multi-step process that ensured that state contributions did not exceed certain maximums provided in the act.

Public Act 94-0004 specified the actual contributions to TRS for FYO6 and FYO7 that were not based on actuarial calculations. State contributions from FYO8 through FY1 1 were based on the statutory schedule, subject to the maximums contained in the POB legislation. Bonds were sold in FY10 and FY1 1 to cover some of the state contributions due TRS, but the debt service on those bonds does not affect future state contributions. Actuarial smoothing of assets, required by Public Act 96-0043, first affected the FY1 1 state contribution.

## State Funding Amounts

The FY 11 actuarial valuation was used to determine the required FY 13 state contributions and the FY 13 employer's normal cost. The FY 10 actuarial valuation was used to determine the required FY 12 state contributions and the FY 12 employer's normal cost. For FY12, two amounts were certified due to uncertainty over state appropriations during FY11. The appropriation shown for FY1 2 is based on receipt of the required FY1 1 appropriation.

State Funding Amounts
FY13
FY12
Benefit Trust Reserve
(excludes federal contributions; excludes school district contributions)
Minimum benefit reserve
Total state funding amount
Employer's normal cost as a percentage of active member payroll


## TESTS OF FINANCIAL CONDITION

The funded ratio shows the percentage of the accrued liability covered by actuarial value of assets.

## Funded Ratio Test

 (\$ thousands)As of

| June 30 | Actuarial Value of Assets* | Actuarial Accrued Liability | Funded Ratio* |
| ---: | ---: | ---: | ---: |
| 2002 | $\$ 22,366,285$ | $\$ 43,047,674$ | $52.0 \%$ |
| 2003 | $23,124,823$ | $46,933,432$ | 49.3 |
| 2004 | $31,544,729$ | $50,947,451$ | 61.9 |
| 2005 | $34,085,218$ | $56,075,029$ | 60.8 |
| 2006 | $36,584,889$ | $58,996,913$ | 62.0 |
| 2007 | $41,909,318$ | $65,648,395$ | 63.8 |
| 2008 | $38,430,723$ | $68,632,367$ | 56.0 |
| 2009 | $38,026,044$ | $73,027,198$ | 52.1 |
| 2010 | $37,439,092$ | $77,293,198$ | 48.4 |
| 2011 | $\mathbf{3 7 , 7 6 9} 753$ | $\mathbf{8 1 , 2 9 9 , 7 4 5}$ |  |
| * Market value through FYO8. Five-year prospective smoothing began in FYO9. |  |  |  |

The unfunded liability as a percentage of payroll is a standard measure of the relative size of the unfunded liability. Decreases in this percentage indicate improvements in a system's financial position.

Unfunded Liability as a Percentage of Payroll Test (\$ thousands)

| Year Ended <br> June 30 | Approximate <br> Member Payroll | Unfunded Liability* | Percentage of Payroll |
| ---: | ---: | ---: | ---: |
| 2002 | $\$ 6,785,000$ | $\$ 20,681,389$ | $304.8 \%$ |
| 2003 | $7,059,000$ | $23,808,609$ | 337.3 |
| 2004 | $7,281,000$ | $19,402,722$ | 266.5 |
| 2005 | $7,550,510$ | $21,989,811$ | 291.2 |
| 2006 | $7,765,752$ | $22,412,024$ | 288.6 |
| 2007 | $8,149,849$ | $23,739,077$ | 291.3 |
| 2008 | $8,521,717$ | $30,201,644$ | 354.4 |
| 2009 | $8,945,021$ | $35,001,154$ | 391.3 |
| 2010 | $9,251,139$ | $39,854,106$ | 430.8 |
| 2011 | $\mathbf{9 , 2 0 5 , 6 0 3}$ | $\mathbf{4 3 , 5 2 9 , 9 9 2}$ | 472.9 |

* Market value through FY08. Five-year prospective smoothing began in FY09.

The solvency test measures TRS's ability to cover different types of obligations if the plan was terminated and is hypothetical. The columns are in the order that assets would be used to cover certain types of obligations. Employee contributions would be refunded first, amounts due for current beneficiaries would be covered next, and the employer's obligation for active members would be covered last. Columns 1 and 2 should be fully covered by assets. The portion of column 3 that is covered by assets should increase over time.

## Solvency Test

(\$ thousands)

| Year <br> Ended <br> June 30 | Aggregate Accrued Liabilities for |  |  | Actuarial Value of Assets* | Percentage of Benefits Covered by Net Assets |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Members' Accumulated Contributions | Participants Currently Receiving Benefits (2) | Active <br> Members <br> Employer Portion |  |  |  |  |
|  |  |  |  |  | (1) | (2) | (3) |
| 2002 | \$4,688,042 | \$22,105,192 | \$16,254,440 | \$22,366,285 | 100\% | 80\% | - |
| 2003 | 5,622,026 | 25,188,870 | 16,122,536 | 23,124,823 | 100 | 69 | - |
| 2004 | 5,853,274 | 28,286,916 | 16,807,261 | 31,544,729 | 100 | 91 | - |
| 2005 | 5,925,696 | 32,861,473 | 17,287,860 | 34,085,218 | 100 | 86 | - |
| 2006 | 6,303,750 | 35,315,529 | 17,377,634 | 36,584,889 | 100 | 86 | - |
| 2007 | 6,500,318 | 39,785,368 | 19,362,709 | 41,909,318 | 100 | 89 | - |
| 2008 | 6,931,518 | 41,849,964 | 19,850,885 | 38,430,723 | 100 | 75 | - |
| 2009 | 7,320,600 | 44,495,917 | 21,210,681 | 38,026,044 | 100 | 69 | - |
| 2010 | 7,715,984 | 47,475,906 | 22,101,308 | 37,439,092 | 100 | 63 | - |
| 2011 | 8,048,689 | 50,567,881 | 22,683,175 | 37,769,753 | 100 | 59 | - |

[^3]
## OTHER INFORMATION

Retirees and Beneficiaries Added to and Removed from Rolls

| Year Ended June 30 | Number at Number Beginning Added of Year to Rolls |  | Number Removed from Rolls | Number at End of Year | End-of-Year Annual Allowances |  | Average Annual Allowance |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Amount |  | \% Increase | Amount | \% Increase |
| 2002 | 64,877 | 5,391 |  | 2,319 | 67,949 | \$1,852,194,540 | 12.7\% | \$27,259 | 7.6\% |
| 2003* | 67,949 | 9,404 | 3,922 | 73,431 | 2,181,186,831 | 17.8 | 29,704 | 9.0 |
| 2004 | 73,431 | 6,016 | 2,542 | 76,905 | 2,432,132,334 | 11.5 | 31,625 | 6.5 |
| 2005 | 76,905 | 7,897 | 2,227 | 82,575 | 2,806,341,054 | 15.4 | 33,985 | 7.5 |
| 2006 | 82,575 | 5,147 | 2,619 | 85,103 | 3,018,848,450 | 7.6 | 35,473 | 4.4 |
| 2007 | 85,103 | 6,473 | 2,340 | 89,236 | 3,344,714,652 | 10.8 | 37,482 | 5.7 |
| 2008 | 89,236 | 4,912 | 2,686 | 91,462 | 3,551,117,836 | 6.2 | 38,826 | 3.6 |
| 2009 | 91,462 | 5,520 | 2,558 | 94,424 | 3,815,292,869 | 7.4 | 40,406 | 4.1 |
| 2010 | 94,424 | 5,711 | 2,381 | 97,754 | 4,109,018,971 | 7.7 | 42,034 | 4.0 |
| 2011 | 97,754 | 6,377 | 2,843 | 101,288 | 4,418,500,521 | 7.5 | 43,623 | 3.8 |

*In the year ended June 30, 2003, statistical programs were revised and improved. This resulted in a much larger number reported as added to the rolls.

Amount Added to Rolls**

|  |  |  |  |  | Amount Removed <br> from Rolls |
| :--- | ---: | ---: | ---: | :---: | :---: |
|  | Annual Benefit Increases | New Benefit Recipients | $\$ 51,335,633$ |  |  |
| 2007 | $\$ 81,629,966$ | $\$ 295,571,869$ | $61,448,244$ |  |  |
| 2008 | $93,731,561$ | $174,119,867$ | $63,144,284$ |  |  |
| 2009 | $108,144,294$ | $219,175,023$ | $68,388,326$ |  |  |
| 2010 | $114,879,927$ | $247,234,501$ | $\mathbf{7 8 , 8 5 6 , 2 7 2}$ |  |  |

[^4]| Years of Service* |  | 2011 | 2010 | 2009 | 2008 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| under 5 | Number | 27,960 | 33,487 | 37,293 | 42,725 |
|  | Average salary | \$47,292 | \$46,324 | \$45,464 | \$44,916 |
| 5-9 | Number | 34,626 | 34,529 | 33,494 | 31,959 |
|  | Average salary | \$57,416 | \$57,105 | \$55,945 | \$55,436 |
| 10-14 | Number | 26,865 | 25,051 | 23,133 | 21,395 |
|  | Average salary | \$67,691 | \$66,788 | \$65,168 | \$64,705 |
| 15-19 | Number | 17,935 | 17,790 | 17,417 | 14,753 |
|  | Average salary | \$77,268 | \$76,001 | \$73,770 | \$71,802 |
| 20-24 | Number | 11,682 | 11,391 | 11,084 | 10,447 |
|  | Average salary | \$83,563 | \$82,184 | \$79,805 | \$78,080 |
| 25-29 | Number | 7,834 | 7,786 | 7,790 | 8,654 |
|  | Average salary | \$88,416 | \$86,566 | \$84,282 | \$82,013 |
| 30-34 | Number | 5,839 | 6,554 | 6,858 | 5,763 |
|  | Average salary | \$93,299 | \$91,077 | \$87,973 | \$85,738 |
| $35+$ | Number | 1,179 | 1,251 | 1,265 | 790 |
|  | Average salary | \$98,678 | \$95,486 | \$90,698 | \$88,478 |
|  | Total number | 133,920 | 137,839 | 138,334 | 136,486 |
|  | Average salary | \$66,044 | \$64,385 | \$62,319 | \$60,254 |
| \% Change average salary |  | 2.6\% | 3.3\% | 3.4\% | 3.7\% |
| Total payroll full \& part-time |  | ,612,480 | ,727,268 | \$8,620,836,546 | \$8,223,827,444 |

Annual salaries are computed using full- and part-time salary rates only; substitute and hourly employee salaries are omitted.
Total payroll shown will be lower than payroll figures used elsewhere in this report.

* From FYO2-FY08, years of service increments were as follows: 0-5, 6-10, 11-15, 16-20, 21-25, 26-30, 31-35, and 35+. However, figures for those years are not restated because the differences would be minor.

| 2007 | 2006 | 2005 | 2004 | 2003 | 2002 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 41,244 | 40,930 | 39,728 | 36,951 | 38,074 | 41,120 |
| \$43,446 | \$42,404 | \$41,444 | \$37,633 | \$37,960 | \$36,242 |
| 30,520 | 28,847 | 26,557 | 26,027 | 25,020 | 24,258 |
| \$53,062 | \$51,314 | \$49,536 | \$45,568 | \$46,740 | \$45,300 |
| 20,469 | 20,222 | 20,295 | 18,307 | 17,334 | 16,812 |
| \$62,447 | \$60,476 | \$58,195 | \$52,771 | \$53,931 | \$52,761 |
| 14,422 | 14,086 | 13,429 | 13,358 | 12,860 | 12,215 |
| \$69,368 | \$67,343 | \$65,276 | \$59,820 | \$60,788 | \$59,011 |
| 9,814 | 9,619 | 9,431 | 10,868 | 11,152 | 12,575 |
| \$74,894 | \$72,531 | \$70,278 | \$64,881 | \$65,427 | \$63,599 |
| 9,484 | 10,349 | 10,667 | 12,488 | 12,429 | 13,256 |
| \$78,831 | \$76,616 | \$74,127 | \$69,276 | \$70,066 | \$68,501 |
| 5,301 | 6,134 | 5,900 | 9,186 | 7,107 | 7,484 |
| \$82,508 | \$83,165 | \$79,236 | \$75,643 | \$76,676 | \$76,413 |
| 694 | 785 | 744 | 1,162 | 804 | 843 |
| \$84,065 | \$84,524 | \$81,497 | \$77,805 | \$78,091 | \$78,831 |
| 131,948 | 130,972 | 126,751 | 128,347 | 124,780 | 128,563 |
| \$58,116 | \$56,916 | \$55,237 | \$52,181 | \$52,408 | \$50,895 |
| 2.1 \% | 3.0\% | 5.9\% | (0.4\%) | 3.0\% | 3.4\% |
| \$7,668,289,968 | \$7,454,402,352 | \$7,001,344,987 | \$6,697,274,807 | \$6,539,470,240 | \$6,543,213,885 |


| Age |  | Subs | Years of Service |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Under 5 | 5-9 | 10-14 | 15-19 |
| 20-24 | Number | 4,148 | 3,101 | 1 | - | - |
|  | Average Salary | \$4,109 | \$39,075 | \$41,223 | - | - |
| 25-29 | Number | 5,606 | 12,851 | 6,599 | - | - |
|  | Average Salary | \$4,421 | \$45,075 | \$52,984 | - | - |
| 30-34 | Number | 2,786 | 4,560 | 13,061 | 4,584 | - |
|  | Average Salary | \$4,157 | \$48,454 | \$57,296 | \$65,353 | - |
| 35-39 | Number | 2,733 | 2,298 | 4,939 | 9,278 | 2,450 |
|  | Average Salary | \$4,066 | \$49,582 | \$59,318 | \$68,366 | \$76,570 |
| 40-44 | Number | 4,155 | 2,048 | 3,395 | 4,426 | 6,490 |
|  | Average Salary | \$4,197 | \$57,084 | \$58,619 | \$69,042 | \$78,041 |
| 45-49 | Number | 3,672 | 1,420 | 2,618 | 2,683 | 2,789 |
|  | Average Salary | \$4,351 | \$49,415 | \$58,713 | \$67,197 | \$78,778 |
| 50-54 | Number | 3,118 | 849 | 2,129 | 2,633 | 2,346 |
|  | Average Salary | \$4,391 | \$52,211 | \$58,531 | \$66,908 | \$75,233 |
| 55-59 | Number | 2,798 | 533 | 1,260 | 2,185 | 2,503 |
|  | Average Salary | \$4,693 | \$62,937 | \$60,963 | \$67,553 | \$76,108 |
| 60-64 | Number | 1,930 | 256 | 539 | 930 | 1,174 |
|  | Average Salary | \$4,359 | \$74,306 | \$67,920 | \$69,022 | \$77,137 |
| 65-69 | Number | 768 | 37 | 78 | 129 | 171 |
|  | Average Salary | \$3,804 | \$72,695 | \$76,803 | \$75,044 | \$77,296 |
| 70-74 | Number | 227 | 5 | 6 | 10 | 10 |
|  | Average Salary | \$3,889 | \$46,064 | \$47,828 | \$67,386 | \$106,608 |
| Over 74 | Number | 152 | 2 | 1 | 7 | 2 |
|  | Average Salary | \$3,088 | \$29,987 | \$29,592 | \$64,963 | \$86,558 |
|  | Total Number | 32,093 | 27,960 | 34,626 | 26,865 | 17,935 |
|  | Average Salary | \$4,283 | \$47,292 | \$57,416 | \$67,691 | \$77,268 |

Years of Service

| 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50+ | Full and Part-time Member Totals |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - | - | - | - | - | - | - | 3,102 |
| - | - | - | - | - | - | - | \$39,076 |
| - | - | - | - | - | - | - | 19,450 |
| - | - | - | - | - | - | - | \$47,758 |
| - | - | - | - | - | - | - | 22,205 |
| - | - | - | - | - | - | - | \$57,144 |
| - | - | - | - | - | - | - | 18,965 |
| - | - | - | - | - | - | - | \$64,793 |
| 1,830 | - | - | - | - | - | - | 18,189 |
| \$83,065 | - |  |  |  |  |  | \$70,372 |
| 3,901 | 1,500 | - | - | - | - | - | 14,911 |
| \$85,146 | \$87,481 | - | - | - | - | - | \$72,916 |
| 2,324 | 3,311 | 2,017 | - | - | - | - | 15,609 |
| \$82,261 | \$88,334 | \$91,165 | - | - | - | - | \$76,182 |
| 2,332 | 2,037 | 3,170 | 545 | - | - | - | 14,565 |
| \$82,196 | \$88,550 | \$94,614 | \$98,291 | - | - | - | \$80,605 |
| 1,133 | 885 | 577 | 402 | 110 | - | - | 6,006 |
| \$84,259 | \$89,881 | \$94,002 | \$98,718 | \$99,428 | - | - | \$81,627 |
| 150 | 88 | 65 | 31 | 52 | 11 | - | 812 |
| \$84,759 | \$89,947 | \$90,281 | \$96,211 | \$95,674 | \$96,348 | - | \$82,627 |
| 12 | 9 | 9 | 4 | 6 | 6 | 3 | 80 |
| \$82,551 | \$91,842 | \$89,442 | \$83,634 | \$126,326 | \$109,056 | \$181,755 | \$89,644 |
| - | 4 | 1 | 1 | 1 | 4 | 3 | 26 |
| - | \$73,048 | \$55,519 | \$90,908 | \$93,269 | \$96,592 | \$90,270 | \$73,327 |
| 11,682 | 7,834 | 5,839 | 983 | 169 | 21 | 6 | 133,920 |
| \$83,563 | \$88,416 | \$93,299 | \$98,333 | \$99,192 | \$100,025 | \$136,013 | \$66,044 |


|  | Average Years of <br> Service |  |  |
| :--- | ---: | ---: | ---: |
| Average Age | 42 | 12 | 133,920 |
| Full and part-time members | 41 | 3 | $\underline{32,093}$ |
| All | 42 | 10 | $\underline{166,013}$ |

## PLAN SUMMARY

## Administration

TRS was created and is governed by Article 16 of the Illinois Pension Code, contained in the Illinois Compiled Statutes (ILCS). A 13-member Board of Trustees is authorized to carry out duties granted to it under the article.

## Membership

Membership is mandatory for all full-time, part-time, and substitute public school personnel employed outside the city of Chicago in positions requiring certification. Persons employed at certain state agencies are also members.

## Contributions

During FY11, members contributed 9.4 percent of gross creditable earnings designated as 7.5 percent for retirement annuity, 0.5 percent for post-retirement increases, 0.4 percent for the Early Retirement Option, and 1 percent for death benefits. Active members do not contribute to Social Security for TRS-covered employment; however, members hired after March 31, 1986, are required to contribute to Medicare. In addition, virtually all members pay a contribution to the Teachers' Health Insurance Security Fund, a separate fund in the State Treasury that is not a part of this retirement plan. For FY1 1, the member contribution was 0.88 percent of pay.

## Service Credit

A member is granted a maximum of one year of service credit for 170 paid days per school year, defined by statute as July 1 through June 30. Optional service credit is available for periods of public school teaching in other states or under the authority of the United States government, substitute or part-time teaching prior to July 1, 1990, leaves of absence, involuntary layoffs, military service, and gaps in teaching due to pregnancy or adoption prior to July 1, 1983. Up to two years of unused, uncompensated sick leave that has been certified by former employers may also be added as service credit at retirement.

## Refunds

After a four-month waiting period from the date last taught, a member ceasing TRS-covered employment may withdraw all contributions, except the 1 percent death benefit. When accepting a refund, the member forfeits all service credit and benefit rights. Credit can be re-established if the member returns to a TRS-covered position for one year or to a reciprocal system for two years and repays the refund with interest. A member receiving disability benefits is not eligible for a refund.

## Retirement Benefits

The following vesting schedule applies to all members hired before January 1, 2011.

## Years of

| Service | Age |
| ---: | ---: |
| 5 | 62 |

10
20
35
55 (discounted)
55 (nondiscounted)

To be eligible to receive a monthly retirement annuity, a member must terminate active service and meet specific age and service requirements. If a member retires at an age less than 60 with fewer than 35 years of service and does not elect the Early Retirement Option (discussed under "Early Retirement"), the benefit will be reduced by 6 percent for each year the member is under age 60.

A member with fewer than five years of creditable service who taught after July 1, 1947, is eligible to receive a single-sum retirement benefit at age 65 .

Most members retire under a retirement benefit formula. This retirement annuity is determined by two factors: average salary and years of creditable service. Average salary is the average of the creditable earnings in the highest four consecutive years within the last 10 years of creditable service. Years of service determine the percentage of the final average salary to which members are entitled. Members with contributing service before July 1, 2005, can retire under a money purchase style "actuarial" benefit instead of a retirement benefit formula. By law, the higher of the formula benefit or the actuarial benefit is paid. The maximum formula benefit is 75 percent of the final average salary; there is no maximum for the actuarial benefit.

Public Act 90-0582 improved retirement benefits for TRS members by changing the rate at which TRS benefits accrue beginning July 1,1998 , from a graduated rate to a flat rate equal to 2.2 percent of final average salary. Members who retire on or after the effective date have the option of upgrading their service earned prior to July 1,1998 , to the flat-rate 2.2 percent formula by making a payment to TRS. Additionally, for members who continue to teach, every three full years worked after July 1, 1998, count toward a full one-year reduction of the years to be upgraded.

Public Act 91-0017 reduced the 2.2 formula upgrade cost on a sliding scale for members who have more than 34 years of service credit. The legislation also made a technical correction in the benefit accrual rate for members who do not upgrade their pre-July 1998 service.

Years of service earned before July 1, 1998, were earned under a four-step graduated formula:

- 1.67 percent for each of years one through 10 ,
- 1.9 percent for each of years 11 through 20,
- 2.1 percent for each of years 21 through 30 , and
- 2.3 percent for each year over 30.

The maximum annuity, 75 percent of final average salary, is achieved with 34 years under the 2.2 formula and with 38 years of service under the graduated formula. The minimum retirement benefit is $\$ 25$ per month for each year of creditable service up to 30 years of service.

## Early Retirement

Members who are age 55 but under age 60 who have at least 20 but fewer than 35 years of service can elect the Early Retirement Option (ERO) to avoid a discounted annuity. Both the member and employer make one-time contributions at retirement. Under the terms of the ERO program described in Public Act 94-0004, the member pays 11.5 percent for each year that his or her age is under 60 or years of service is under 35, whichever is less. The employer pays 23.5 percent for each year the member is under age 60 .

An actuarial study will be conducted in 2012 to review the adequacy of ERO contributions. Continuation of the ERO program beyond June 30, 2013 will depend on the results of that study and legislative action.

## Post-Retirement Increase

Annuitants who meet certain service credit criteria receive an annual 3 percent increase in their gross annuities on the January 1 after they turn age 61 or the January 1 following the first anniversary in retirement, whichever is later.

## Disability Benefits

TRS offers occupational and nonoccupational disability benefits to active members. Nonoccupational disability benefits are payable as disability benefits or as a disability retirement annuity to members who have a minimum of three years of creditable service. There is no minimum service requirement for occupational disability benefits for duty-related accidents or illnesses. Members continue to accrue service credit while they are receiving disability benefits but not while they are receiving disability retirement annuities. On January 1 following the fourth anniversary of the granting of the disability benefit, the monthly benefit is increased 7 percent. Thereafter, the benefit increases by 3 percent each January 1.

Public Act 94-0539 allows individuals who have received TRS disability benefits for one year or more to return to teaching if their medical conditions improve, allowing part-time work. It allows members on a limited basis to tutor, substitute, or teach part-time for a TRS-covered employer without loss of disability benefits as long as the combined earnings from teaching and disability benefits do not exceed 100 percent of the salary rate upon which the disability benefit was based.

## Death Benefits

There are two types of death benefits: a return of the member's accumulated contributions and survivor benefits.

The return of member contributions includes the retirement contributions ( 6.5 percent of salary through June 30, 1998 and 7.5 percent after that date), with interest, as well as 0.5 percent paid toward annual increases in annuity, and 0.4 percent paid for the Early Retirement Option. Beneficiaries of an annuitant receive the accumulated contributions minus the amount that the member had already received as a retirement annuity.

Survivor benefits can be paid in either a lump-sum or a monthly payment. A lump-sum benefit is the only method payable to nondependent beneficiaries. A dependent beneficiary may choose either a lump-sum benefit or a monthly payment. Survivor benefit recipients who are beneficiaries of a retired member are eligible for an annual 3 percent increase effective January 1 following the granting of the survivor benefit. Survivor benefit recipients who are beneficiaries of an active or eligible inactive member are eligible for an annual 3 percent increase on January 1 following the first anniversary of their receiving the survivor benefit.

## Employment-Related Felony Conviction

Any member convicted of a felony related to or in connection with teaching is not eligible for TRS benefits; however, the member may receive a refund of contributions.

## Continuity of Credit within Illinois

TRS is one of 13 public retirement systems that are included in the provisions of the Illinois Retirement Systems' Reciprocal Act. This act ensures continuous pension credit for public employment in Illinois.

## Conflicts

Conditions involving a claim for benefits may require further clarification. If conflicts arise between material in this summary and that of the law, the law takes precedence.

During fiscal year 2011, the majority of TRS benefits went to retired members who earned a pension during a lengthy career in education. Other types of benefits established by law are for disabilities and for eligible survivors of deceased members.

## Average Monthly Benefit



Average Age for Benefit Recipients



## STATISTICAL SECTION

The tables in this section present detailed information on benefit payments and recipients, member and employer contributions, employer contribution rates, and the largest TRS employers.

## Section Contents <br> Retired Members by Years of Service and Years in Retirement - Pages 108-109

This schedule shows the number of retirees by their years of service and years in retirement in five-year increments. It also shows their average current monthly benefits and average benefits when they first retired. A column on the right shows the average age of retirees in each "years retired" increment.

## 10-Year Financial Trends - Pages 110-111

These schedules contain information that allows the reader to view the change in net assets and benefit and refund deductions from net assets over a 10-year period. Both schedules help the reader understand the financial changes that have occurred over time.

## Employee and Employer Contribution Rates - Page 112

This schedule offers information on the contribution rates for employees, the state, and employers to the system over a 10 -year period.

## Demographics of Benefit Recipients - Pages 114-115

These schedules help the reader understand characteristics of the specific groups of benefit recipients and active members of the Teachers' Retirement System.

## Average Benefit Payments - Pages 116-117

This schedule contains information regarding the average benefits paid to new retirees over a 10-year period. The schedule also allows the reader to view those payments by years of service.

## Participating Employers - Page 118

This schedule allows the reader to view the 10 largest participating employers of the Teachers' Retirement System. The reader can also view the percentages of total membership covered by the largest employers in the current year and nine years ago.

RETIRED MEMBERS BYYEARS OF SERVICE
AND YEARS IN RETIREMENT AS OF JUNE 30, 2011

| Years <br> Retired |  | Years of Service |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Under 5 | 5-9 | 10-14 | 15-19 | 20-24 |
| Under 1 | Number | 160 | 328 | 348 | 357 | 596 |
|  | Average current benefit | \$281 | \$712 | \$1,318 | \$2,172 | \$3,000 |
|  | Average original benefit | \$281 | \$712 | \$1,316 | \$2,171 | \$2,990 |
| 1-4 | Number | 746 | 1,346 | 1,260 | 1,320 | 2,040 |
|  | Average current benefit | \$275 | \$674 | \$1,243 | \$2,120 | \$2,966 |
|  | Average original benefit | \$259 | \$634 | \$1,167 | \$2,004 | \$2,840 |
| 5-9 | Number | 906 | 1,151 | 1,156 | 1,085 | 2,331 |
|  | Average current benefit | \$262 | \$640 | \$1,251 | \$2,040 | \$2,856 |
|  | Average original benefit | \$216 | \$526 | \$1,031 | \$1,687 | \$2,389 |
| 10-14 | Number | 700 | 694 | 593 | 538 | 1,368 |
|  | Average current benefit | \$282 | \$654 | \$1,102 | \$1,891 | \$2,670 |
|  | Average original benefit | \$200 | \$462 | \$785 | \$1,358 | \$1,929 |
| 15-19 | Number | 388 | 474 | 439 | 402 | 693 |
|  | Average current benefit | \$253 | \$647 | \$1,028 | \$1,316 | \$1,932 |
|  | Average original benefit | \$153 | \$392 | \$613 | \$789 | \$1,167 |
| 20-24 | Number | 182 | 353 | 470 | 482 | 1,367 |
|  | Average current benefit | \$218 | \$541 | \$892 | \$1,419 | \$2,051 |
|  | Average original benefit | \$113 | \$274 | \$460 | \$741 | \$1,091 |
| 25-29 | Number | 82 | 181 | 329 | 385 | 948 |
|  | Average current benefit | \$199 | \$406 | \$794 | \$1,251 | \$1,687 |
|  | Average original benefit | \$91 | \$162 | \$346 | \$565 | \$774 |
| 30-34 | Number | 23 | 48 | 133 | 185 | 449 |
|  | Average current benefit | \$195 | \$334 | \$631 | \$963 | \$1,274 |
|  | Average original benefit | \$76 | \$97 | \$226 | \$372 | \$507 |
| 35-39 | Number | 10 | 10 | 33 | 42 | 162 |
|  | Average current benefit | \$103 | \$173 | \$570 | \$898 | \$1,040 |
|  | Average original benefit | \$27 | \$45 | \$173 | \$287 | \$334 |
| 40-44 | Number | - | 1 | - | 1 | 31 |
|  | Average current benefit | - | \$37 | - | \$783 | \$895 |
|  | Average original benefit | - | - | - | \$252 | \$202 |
| 45-49 | Number | - | - | - | - | 6 |
|  | Average current benefit | - | - | - | - | \$867 |
|  | Average original benefit | - | - | - | - | \$130 |
| Total Number |  | 3,197 | 4,586 | 4,761 | 4,797 | 9,991 |
| Average current benefit |  | \$264 | \$637 | \$1,126 | \$1,817 | \$2,469 |
| Average original benefit |  | \$208 | \$508 | \$887 | \$1,450 | \$1,912 |

Years of Service

| Years of Service |  |  |  |  |  | Weighted Average | Avg <br> Age |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50+ |  |  |
| 560 | 905 | 1,356 | 112 | 18 | 3 | 4,743 | 60 |
| \$4,110 | \$5,201 | \$5,702 | \$6,390 | \$6,961 | \$9,058 | \$3,987 |  |
| \$4,101 | \$5,190 | \$5,702 | \$6,390 | \$6,961 | \$9,058 | \$3,982 |  |
| 2,095 | 4,611 | 4,857 | 312 | 53 | 5 | 18,645 | 62 |
| \$4,003 | \$5,234 | \$5,600 | \$6,170 | \$6,739 | \$9,561 | \$3,946 |  |
| \$3,826 | \$5,070 | \$5,479 | \$5,790 | \$6,418 | \$8,974 | \$3,816 |  |
| 2,786 | 11,397 | 4,503 | 326 | 49 | 8 | 25,698 | 65 |
| \$4,011 | \$5,470 | \$6,011 | \$6,092 | \$6,672 | \$7,886 | \$4,446 |  |
| \$3,340 | \$4,601 | \$5,025 | \$5,010 | \$5,535 | \$6,424 | \$3,725 |  |
| 1,565 | 4,380 | 2,657 | 205 | 28 | 2 | 12,730 | 70 |
| \$3,854 | \$5,395 | \$5,880 | \$5,665 | \$6,153 | \$7,000 | \$4,133 |  |
| \$2,785 | \$3,974 | \$4,262 | \$4,042 | \$4,389 | \$5,124 | \$3,012 |  |
| 1,236 | 1,985 | 3,972 | 5,450 | 12 | 1 | 15,052 | 75 |
| \$2,520 | \$3,326 | \$4,476 | \$4,988 | \$5,217 | \$4,551 | \$3,818 |  |
| \$1,523 | \$2,011 | \$2,723 | \$3,042 | \$3,205 | \$2,792 | \$2,322 |  |
| 1,266 | 1,593 | 1,343 | 89 | 12 | 2 | 7,159 | 81 |
| \$2,763 | \$3,846 | \$4,784 | \$5,105 | \$4,056 | \$3,697 | \$2,891 |  |
| \$1,475 | \$2,049 | \$2,557 | \$2,747 | \$2,175 | \$2,074 | \$1,540 |  |
| 818 | 943 | 726 | 44 | 6 | - | 4,462 | 86 |
| \$2,332 | \$3,258 | \$4,175 | \$3,966 | \$4,098 | - | \$2,385 |  |
| \$1,080 | \$1,513 | \$1,949 | \$1,826 | \$1,909 | - | \$1,102 |  |
| 368 | 338 | 238 | 37 | 3 | - | 1,822 | 91 |
| \$1,743 | \$2,473 | \$2,698 | \$2,934 | \$2,294 | - | \$1,696 |  |
| \$707 | \$1,018 | \$1,097 | \$1,194 | \$934 | - | \$683 |  |
| 112 | 79 | 109 | 21 | 3 | - | 581 | 95 |
| \$1,351 | \$1,673 | \$2,456 | \$2,494 | \$2,923 | - | \$1,446 |  |
| \$452 | \$576 | \$870 | \$874 | \$1,030 | - | \$491 |  |
| 12 | 14 | 3 | 4 | - | - | 66 | 99 |
| \$1,092 | \$1,283 | \$1,676 | \$2,051 | - | - | \$1,104 |  |
| \$247 | \$331 | \$519 | \$634 | - | - | \$276 |  |
| 3 | - | - | - | - | - | 9 | 103 |
| \$1,137 | - | - | - | - | - | \$957 |  |
| \$180 | - | - | - | - | - | \$147 |  |
| 10,821 | 26,245 | 19,764 | 6,600 | 184 | 21 | 90,967 |  |
| \$3,440 | \$5,014 | \$5,352 | \$5,116 | \$6,159 | \$7,810 | \$3,871 |  |
| \$2,673 | \$4,077 | \$4,266 | \$3,326 | \$5,117 | \$6,696 | \$3,040 |  |

## CHANGES IN NET ASSETS, LAST 10 FISCAL YEARS

(\$ thousands)

|  | 2011 | 2010 | 2009 | 2008 |
| :---: | :---: | :---: | :---: | :---: |
| Additions |  |  |  |  |
| Member contributions* | \$909,577 | \$899,401 | \$876,182 | \$865,400 |
| State of Illinois | 2,170,918 | 2,080,729 | 1,451,592 | 1,041,115 |
| Pension Obligation Bond proceeds |  |  |  |  |
| Employer contributions** | 155,111 | 171,421 | 152,329 | 130,673 |
| Investment income (loss) net of expenses | 7,234,539 | 3,679,643 | $(8,688,286)$ | $(2,014,902)$ |
| Total additions to/reductions from plan net assets | 10,470,145 | 6,831,194 | $(6,208,183)$ | 22,286 |
| Deductions |  |  |  |  |
| Benefit payments | 4,228,283 | 3,927,838 | 3,653,714 | 3,423,982 |
| Refunds | 76,587 | 60,350 | 53,709 | 60,286 |
| Administrative expenses | 17,792 | 16,951 | 17,388 | 16,613 |
| Other expenses | - |  | - | - |
| Total deductions from plan net assets | 4,322,662 | 4,005,139 | 3,724,811 | 3,500,881 |
| Changes in net assets |  |  |  |  |
| Beginning of year | 31,323,784 | 28,497,729 | 38,430,723 | 41,909,318 |
| Net increase (decrease) | 6,147,483 | 2,826,055 | (9,932,994) | $(3,478,595)$ |
| End of year | \$37,471,267 | \$31,323,784 | \$28,497,729 | \$38,430,723 |

* Member contributions increased from 9.0 percent to 9.4 percent beginning in FYO6. Also included are member contributions for purchases of optional service, early retirement, and upgrades to the 2.2 formula.
** Employer contributions include contributions from federal funds, for early retirement, and for the 2.2 formula. Beginning in FY06, it includes employer contributions for salary increases in excess of 6 percent used in final average salary calculations and for excess sick leave used for service credit.


## BENEFIT AND REFUND DEDUCTIONS FROM NET ASSETS BY TYPE, LAST 10 FISCAL YEARS

## (\$ thousands)

|  | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 0 8}$ |
| :--- | ---: | ---: | ---: | ---: |
| Type of benefit |  |  |  |  |
| Retirement | $\$ 4,036,147$ | $\$ 3,749,666$ | $\$ 3,486,697$ | $\$ 3,268,108$ |
| Survivor |  |  |  |  |


| \$826,249 | \$799,034 | \$761,790 | \$768,661 | \$732,020 | \$681,152 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 737,671 | 534,305 | 906,749 | 1,031,478 | 929,710 | 814,740 |
| - |  |  | 4,330,374 |  |  |
| 115,915 | 123,543 | 148,813 | 127,573 | 91,552 | 92,618 |
| 6,831,324 | 3,993,290 | 3,330,040 | 4,485,730 | 1,060,853 | $(723,987)$ |
| 8,511,159 | 5,450,172 | 5,147,392 | 10,743,816 | 2,814,135 | 864,523 |
| 3,111,753 | 2,877,231 | 2,533,103 | 2,262,329 | 1,998,622 | 1,759,749 |
| 59,732 | 57,967 | 59,396 | 48,020 | 43,115 | 38,756 |
| 15,245 | 15,303 | 14,404 | 13,561 | 13,859 | 13,487 |
| - | - | - |  |  | 1,892 |
| 3,186,730 | 2,950,501 | 2,606,903 | 2,323,910 | 2,055,596 | 1,813,884 |
| 36,584,889 | 34,085,218 | 31,544,729 | 23,124,823 | 22,366,284 | 23,315,645 |
| 5,324,429 | 2,499,671 | 2,540,489 | 8,419,906 | 758,539 | (949,361) |
| \$41,909,318 | \$36,584,889 | \$34,085,218 | \$31,544,729 | \$23,124,823 | \$22,366,284 |



17,147
17,081
14,145 8,808
2,551


17,155
16,747
12,666
10,198
1,201

| $\$ 2,407,652$ | $\$ 2,145,187$ |
| ---: | ---: |
| 103,991 | 97,155 |
| 21,460 | 19,987 |
|  | $\mathbf{2 , 5 3 3 , 1 0 3}$ |

14,858
16,145 7,977 7,835 1,205

| $\$ 1,890,512$ | $\$ 1,660,998$ |
| ---: | ---: |
| 88,997 | 80,461 |
| 19,113 | 18,290 |
| $\mathbf{1 , 9 9 8 , 6 2 2}$ | $\mathbf{1 , 7 5 9 , 7 4 9}$ |

13,204
13,976
14,927
3,483
5,587
783

## EMPLOYEE AND EMPLOYER CONTRIBUTION RATES, LAST 10 FISCAL YEARS

Employer Rate (\%) ${ }^{2}$

| Fiscal <br> Year | Employee <br> Rate (\%) | State $^{3}$ | School Districts <br> for 2.2 <br> Formula | School Districts <br> from Federal <br> Sources |  |
| ---: | :---: | :---: | :---: | :---: | :---: |
| 2002 | $9.00 \%$ | $12.16 \%$ | $0.38 \%$ | $0.35 \%$ | Total $^{6}$ |

1 Rate increase in FY06 was for the Early Retirement Option.
2 Employer contributions exclude contributions for Early Retirement Option.
3 State contributions increased through FY04 pursuant to statutory ramp schedule under 40 ILCS 5/16-158 (b-3). Pension obligation bond (POB) proceeds that were received in FYO4 are not state contributions and are not included in this schedule. FYO5 decline was due to calculation required under POB legislation. FYO6 and FY07 rates were due to specific dollar appropriation specified in Public Act 94-0004 that were not based on the statutory ramp schedule. FY08 through FY10 rates are based on statutory ramp schedule. FY1 1 rate is based on recertification requirements of Pubic Act 96-1511.

4 Employer contributions for the 2.2 formula change were 0.3 percent of pay in FY 99 and 0.58 percent of pay thereafter, with waivers for certain employers under collective bargaining agreements. From January 1, 2002 through June 30, 2003, 40 ILCS 5/16-158 (e) allowed 0.4 percent of the 2.2 contribution to be diverted to cover a new employer contribution for retiree health insurance.

5 Federal contributions above are expressed as percentages of total active member payroll. Through FYO5, employers contributed 10.5 percent of pay as the employer contribution for members paid from federal sources. Beginning in FYO6, the employer contribution rate paid on behalf of members paid from federal sources is the same as the employer contribution rate paid by the State of Illinois on behalf of members not paid from federal sources [7.06 percent in FYO6, 9.78 percent in $\mathrm{FYO7}, 13.11$ percent in FYO8, 17.08 percent in $F Y 09$, 23.38 percent in $F Y 10$, and 23.10 percent in $F Y 11$, with further increases according to the statutory schedule under 40 ILCS 5/16-158 (b-3)].

6 Totals shown are rates certified by the TRS Board of Trustees based on estimated payrolls and may not total due to rounding. Actual amounts collected do not equal amounts estimated by actuaries due to differences between estimated and actual payroll. Also, the total rate shown in FYO2 is lower than the total contribution requirement certified by the Board of Trustees because the diversion of the health insurance contributions that began in the middle of the year was not anticipated.

During 2011, TRS Executive Director Dick Ingram met with more than 2,200 TRS members, their families and interested members of the public at Town Hall meetings throughout Illinois. At these meetings, Director Ingram explained the current status of TRS, issues facing public pensions in Illinois and member concerns regarding health insurance, Social Security and state funding.


DEMOGRAPHICS OF BENEFIT RECIPIENTS AND ACTIVE MEMBERS AS OF JUNE 30, 2011
(excludes inactive members)

| Age | Retirees |  |  | Disability Benefit Recipient |  |  | Survivors |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Under 20 | - | - | - | - | - | - | 29 | 20 | 49 |
| 20-24 | - | - | - | - | - | - | 8 | 13 | 21 |
| 25-29 | - | - | - | - | 7 | 7 | 3 | - | 3 |
| 30-34 | - | - | - | - | 11 | 11 | 1 | 1 | 2 |
| 35-39 | - | - | - | 3 | 19 | 22 | 11 | 15 | 26 |
| 40-44 | - | - | - | 7 | 56 | 63 | 11 | 10 | 21 |
| 45-49 | - | - | - | 15 | 48 | 63 | 15 | 27 | 42 |
| 50-54 | 18 | 25 | 43 | 18 | 105 | 123 | 48 | 78 | 126 |
| 55-59 | 2,051 | 5,385 | 7,436 | 47 | 219 | 266 | 102 | 212 | 314 |
| 60-64 | 7,632 | 17,638 | 25,270 | 41 | 197 | 238 | 251 | 496 | 747 |
| 65-69 | 7,457 | 13,677 | 21,134 | 26 | 78 | 104 | 341 | 700 | 1,041 |
| 70-74 | 4,934 | 8,533 | 13,467 | 6 | 41 | 47 | 341 | 901 | 1,242 |
| 75-79 | 3,790 | 5,693 | 9,483 | 11 | 44 | 55 | 404 | 1,059 | 1,463 |
| 80-84 | 2,609 | 4,557 | 7,166 | 7 | 20 | 27 | 421 | 1,302 | 1,723 |
| 85-89 | 1,287 | 2,906 | 4,193 | 1 | 18 | 19 | 400 | 973 | 1,373 |
| 90+ | 434 | 2,341 | 2,775 | - | 4 | 4 | 254 | 825 | 1,079 |
| Total | 30,212 | 60,755 | 90,967 | 182 | 867 | 1,049 | 2,640 | 6,632 | 9,272 |

## BENEFIT RECIPIENTS BY TYPE AS OF JUNE 30, 2011

| Monthly Benefit Range | Number of Recipients (all) | Type of Monthly Benefit |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Retirement | Disability Retirement | Non- occupational Disability | Occupational Disability | Survivor <br> Monthly <br> Benefits |
| Under \$500 | 6,551 | 5,281 | 6 | 1 | - | 1,263 |
| \$500-\$999 | 7,597 | 5,313 | 83 | 2 | - | 2,199 |
| \$1,000-\$1,499 | 7,185 | 5,108 | 227 | 17 | - | 1,833 |
| \$1,500-\$1,999 | 7,314 | 5,535 | 196 | 87 | - | 1,496 |
| \$2,000-\$2,499 | 7,131 | 5,859 | 97 | 77 | 2 | 1,096 |
| \$2,500-\$2,999 | 7,055 | 6,296 | 51 | 38 | 1 | 669 |
| \$3,000-\$3,499 | 7,609 | 7,176 | 37 | 24 | 1 | 371 |
| \$3,500-\$3,999 | 8,188 | 7,959 | 31 | 5 | - | 193 |
| \$4,000-\$4,499 | 8,302 | 8,217 | 17 | 4 | - | 64 |
| \$4,500-\$4,999 | 7,658 | 7,605 | 14 | 1 | - | 38 |
| \$5,000-\$5,499 | 6,270 | 6,236 | 11 | - | - | 23 |
| \$5,500-\$5,999 | 4,881 | 4,861 | 8 | 1 | - | 11 |
| \$6,000-\$6,499 | 4,059 | 4,046 | 5 | - | - | 8 |
| \$6,500-\$6,999 | 3,360 | 3,355 | 2 | - | 1 | 2 |
| \$7,000-\$7,499 | 2,605 | 2,603 | - | - | - | 2 |
| \$7,500-\$7,999 | 1,914 | 1,913 | - | 1 | - |  |
| \$8,000 or more | 3,609 | 3,604 | 1 | - | - | 4 |
| Total benefit recipients: | 101,288 | 90,967 | 786 | 258 | 5 | 9,272 |

Summary Statistics, All Benefit Recipients, as of June 30, 2011

|  | Age <br> Retirement | Disability <br> Benefits (3 types) | Survivor <br> Benefits |
| :--- | ---: | ---: | ---: |
| Average monthly benefit | $\$ 3,871$ | $\$ 2,084$ | $\$ 1,495$ |
| Average age | 70 | 59 | 77 |
| Average years of service | 28 | 17 | NA |

Percent Distribution of
Total Retirees, Disabilitants,
Retirees, Disabilitants,

| Active Members |  |  | Survivors, and Active Members |  |  | Survivors, and Active Members |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Male | Female | Total | Male | Female | Total | Male | Female | Total |
| - | - | - | 29 | 20 | 49 | 59\% | 41\% | 100\% |
| 1,641 | 5,609 | 7,250 | 1,649 | 5,622 | 7,271 | 23 | 77 | 100 |
| 5,930 | 19,126 | 25,056 | 5,933 | 19,133 | 25,066 | 24 | 76 | 100 |
| 6,207 | 18,784 | 24,991 | 6,208 | 18,796 | 25,004 | 25 | 75 | 100 |
| 5,713 | 15,985 | 21,698 | 5,727 | 16,019 | 21,746 | 26 | 74 | 100 |
| 5,502 | 16,842 | 22,344 | 5,520 | 16,908 | 22,428 | 25 | 75 | 100 |
| 4,164 | 14,419 | 18,583 | 4,194 | 14,494 | 18,688 | 22 | 78 | 100 |
| 3,739 | 14,988 | 18,727 | 3,823 | 15,196 | 19,019 | 20 | 80 | 100 |
| 3,440 | 13,923 | 17,363 | 5,640 | 19,739 | 25,379 | 22 | 78 | 100 |
| 1,782 | 6,154 | 7,936 | 9,706 | 24,485 | 34,191 | 28 | 72 | 100 |
| 542 | 1,038 | 1,580 | 8,366 | 15,493 | 23,859 | 35 | 65 | 100 |
| 148 | 209 | 357 | 5,429 | 9,684 | 15,113 | 36 | 64 | 100 |
| 48 | 45 | 93 | 4,253 | 6,841 | 11,094 | 38 | 62 | 100 |
| 12 | 11 | 23 | 3,049 | 5,890 | 8,939 | 34 | 66 | 100 |
| 0 | 3 | 3 | 1,688 | 3,900 | 5,588 | 30 | 70 | 100 |
| 1 | 8 | 9 | 689 | 3,178 | 3,867 | 18 | 82 | 100 |
| 38,869 | 127,144 | 166,013 | 71,903 | 195,398 | 267,301 | 27 \% | 73\% | 100\% |

Subtypes of Age Retirement Benefit

| Regular 2.2 <br> Flat Formula | Graduated Formula | Actuarial Benefit | (2.2 \& | $\begin{array}{r} \text { ERI } \\ \text { (State or TRS) } \end{array}$ | Other | Retirement Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 935 | 1,738 | 2,596 | 5 | 3 | 4 | 5,281 |
| 789 | 1,909 | 2,479 | 45 | 74 | 17 | 5,313 |
| 889 | 1,780 | 1,805 | 338 | 253 | 43 | 5,108 |
| 1,064 | 1,569 | 1,352 | 1,032 | 488 | 30 | 5,535 |
| 1,218 | 1,402 | 845 | 1,556 | 801 | 37 | 5,859 |
| 1,474 | 1,156 | 551 | 1,996 | 1,077 | 42 | 6,296 |
| 2,004 | 1,035 | 345 | 2,426 | 1,327 | 39 | 7,176 |
| 2,479 | 1,049 | 267 | 2,773 | 1,306 | 85 | 7,959 |
| 2,597 | 1,052 | 242 | 2,952 | 1,268 | 106 | 8,217 |
| 2,560 | 956 | 187 | 2,748 | 1,043 | 111 | 7,605 |
| 2,180 | 832 | 121 | 2,307 | 681 | 115 | 6,236 |
| 1,660 | 706 | 91 | 1,736 | 577 | 91 | 4,861 |
| 1,430 | 569 | 66 | 1,410 | 497 | 74 | 4,046 |
| 1,229 | 456 | 51 | 1,186 | 359 | 74 | 3,355 |
| 877 | 400 | 22 | 1,004 | 250 | 50 | 2,603 |
| 685 | 296 | 20 | 735 | 130 | 47 | 1,913 |
| 1,275 | 649 | 47 | 1,249 | 268 | 116 | 3,604 |
| 25,345 | 17,554 | 11,087 | 25,498 | 10,402 | 1,081 | 90,967 |

Percentage of Age Retirement Benefits by Subtype

| $28 \%$ | $19 \%$ | $12 \%$ | $28 \%$ | $12 \%$ | $1 \%$ | $100 \%$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| Retirement Effective Dates | Years of Service |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Under 5 | 5-9 | 10-14 | 15-19 | 20-24 |
| Period July 1, 2010 through June 30, 2011 |  |  |  |  |  |
| Average monthly benefit | \$281 | \$712 | \$1,317 | \$2,171 | \$2,989 |
| Average final average salary | \$59,267 | \$40,317 | \$48,191 | \$62,212 | \$71,841 |
| Number of retired members | 160 | 328 | 349 | 357 | 599 |
| Period July 1, 2009 through June 30, 2010 |  |  |  |  |  |
| Average monthly benefit | \$280 | \$670 | \$1,228 | \$2,121 | \$2,947 |
| Average final average salary | \$61,557 | \$38,1 16 | \$44,679 | \$62,156 | \$71,152 |
| Number of retired members | 144 | 312 | 304 | 335 | 495 |
| Period July 1, 2008 through June 30, 2009 |  |  |  |  |  |
| Average monthly benefit | \$247 | \$642 | \$1,181 | \$2,012 | \$2,920 |
| Average final average salary | \$55,946 | \$39,1 18 | \$42,853 | \$57,824 | \$70,216 |
| Number of retired members | 155 | 295 | 240 | 297 | 472 |
| Period July 1, 2007 through June 30, 2008 |  |  |  |  |  |
| Average monthly benefit | \$228 | \$623 | \$1,077 | \$1,836 | \$2,713 |
| Average final average salary | \$54,905 | \$41,044 | \$40,557 | \$52,692 | \$66,593 |
| Number of retired members | 112 | 197 | 256 | 251 | 400 |
| Period July 1, 2006 through June 30, 2007 |  |  |  |  |  |
| Average monthly benefit | \$208 | \$595 | \$1,118 | \$1,932 | \$2,716 |
| Average final average salary | \$55,395 | \$40,331 | \$46,226 | \$56,872 | \$66,645 |
| Number of retired members | 132 | 212 | 233 | 286 | 492 |
| Period July 1, 2005 through June 30, 2006 |  |  |  |  |  |
| Average monthly benefit | \$210 | \$515 | \$1,139 | \$1,744 | \$2,509 |
| Average final average salary | \$55,558 | \$36,036 | \$44,715 | \$53,349 | \$62,206 |
| Number of retired members | 114 | 202 | 202 | 199 | 376 |
| Period July 1, 2004 through June 30, 2005 |  |  |  |  |  |
| Average monthly benefit | \$228 | \$544 | \$1,074 | \$1,715 | \$2,475 |
| Average final average salary | \$59,538 | \$39,038 | \$44,000 | \$52,488 | \$61,882 |
| Number of retired members | 170 | 198 | 233 | 251 | 567 |
| Period July 1, 2003 through June 30, 2004 |  |  |  |  |  |
| Average monthly benefit | \$208 | \$575 | \$1,052 | \$1,635 | \$2,359 |
| Average final average salary* | - |  | - |  |  |
| Number of retired members | 106 | 152 | 182 | 181 | 419 |
| Period July 1, 2002 through June 30, 2003 |  |  |  |  |  |
| Average monthly benefit | \$206 | \$522 | \$960 | \$1,573 | \$2,350 |
| Average final average salary* | - |  | - |  |  |
| Number of retired members | 213 | 191 | 197 | 191 | 395 |
| Period July 1, 2001 through June 30, 2002 |  |  |  |  |  |
| Average monthly benefit | \$198 | \$509 | \$898 | \$1,486 | \$2,140 |
| Average final average salary* | - | - | - |  |  |
| Number of retired members | 156 | 183 | 169 | 174 | 397 |

[^5]Average Age
Years of Service
25-29

| $\$ 4,097$ | $\$ 5,190$ | $\$ 5,708$ |
| ---: | ---: | ---: |
| $\$ 81,416$ | $\$ 86,636$ | $\$ 91,033$ |
| 562 | 905 | 1,359 |

$\$ 6,527$
$\$ 92,605$
134
$\$ 3,984$
$\$ 76,805$
4,753
$\$ 3,960 \quad$ age 60
27 years
age 59
27 years
age 59
$\$ 3,536$
3,260
\$4,260
$\$ 77,499$
5,433

| $\$ 3,744$ | $\$ 5,080$ |
| ---: | ---: |
| $\$ 75,511$ | $\$ 83,693$ |
| 575 | 1,858 |


| $\$ 5,598$ | $\$ 5,887$ |
| ---: | ---: |
| $\$ 89,451$ | $\$ 89,442$ |
| 1,506 | 139 |

$$
5,433
$$

age 58
29 years
age 59
28 years
age 58
30 years
age 58
30 years
$\$ 3,892$
$\$ 70,359$
4,817

| $\$ 3,147$ | $\$ 4,281$ | $\$ 4,628$ | $\$ 4,598$ | $\$ 3,534$ |
| ---: | ---: | ---: | ---: | ---: |
| $-\overline{-}$ | 1,995 | 1,144 | 81 | $\$ 62,728$ |
| 508 |  |  |  | 4,915 |
|  |  |  |  |  |
| $\$ 3,080$ | $\$ 4,301$ | $\$ 4,543$ | $\$ 4,700$ | $\$ 3,512$ |
| $-\overline{-}$ | 2,117 | 831 | 74 | $\$ 61,714$ |
| 481 |  |  | -582 |  |

age 58
29 years
age 59
29 years

## PRINCIPAL PARTICIPATING EMPLOYERS

| Participating Employer | City | Year ended June 30, 2011 |  |  | Year ended June 30, 2002 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Rank | Covered Employees | Percentage of Total TRS Membership | Rank | Covered Employees | Percentage of Total TRS Membership |
| School District U46 | Elgin | 1 | 2,838 | 1.7\% | 1 | 3,132 | 2.0\% |
| Indian Prairie CUSD 204 | Naperville | 2 | 2,635 | 1.6 | 3 | 2,271 | 1.5 |
| Plainfield SD 202 | Plainfield | 3 | 2,431 | 1.5 | - | - | - |
| Rockford SD 205 | Rockford | 4 | 2,302 | 1.4 | 2 | 2,312 | 1.5 |
| Naperville CUSD 203 | Naperville | 5 | 1,769 | 1.1 | 4 | 1,649 | 1.1 |
| Springfield SD 186 | Springfield | 6 | 1,641 | 1.0 | 6 | 1,448 | 0.9 |
| Community USD 300 | Carpentersville | 7 | 1,619 | 1.0 | 9 | 1,379 | 0.9 |
| Valley View CUSD 365 | Romeoville | 8 | 1,563 | 0.9 | - | - | - |
| Schaumburg CCSD 54 | Schaumburg | 9 | 1,500 | 0.9 | 7 | 1,414 | 0.9 |
| Waukegan CUSD 60 | Waukegan | 10 | 1,416 | 0.9 | 10 | 1,160 | 0.7 |
| Peoria SD 150 | Peoria | - | - | - | 5 | 1,615 | 1.0 |
| Community Unit SD 200 | Wheaton | - | - | - | 8 | 1,381 | 0.9 |
| Total, largest 10 employers |  |  | 19,714 | 11.9\% |  | 17,761 | 11.4\% |
| All other <br> ( 1,019 employers in 201 ${ }^{*}$ <br> 1,047 employers in 2002) |  |  | 146,299 | 88.1\% |  | 138,218 | 88.6\% |
| Grand Total |  |  | 166,013 | 100.0\% |  | 155,979 | 100.0\% |

$\left.\begin{array}{lrr}\text { *Other Employers by Type } & \begin{array}{r}\text { Number of } \\ \text { Other }\end{array} & \begin{array}{r}\text { Other Covered } \\ \text { Employees }\end{array} \\ \text { as of June 30, 2011 }\end{array} \quad \begin{array}{r}138,670 \\ \text { Employers }\end{array}\right)$

| Total Employers by Type | Total Number <br> of Employers | Total Covered <br> Employees |
| :--- | ---: | ---: |
| as of June 30, 2011 |  |  |



Teachers' Retirement System of the State of Illinois
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(800) $877-7896$ | for the hearing impaired: (866) 326-0087

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[^0]:    * Benefit recipients includes retiree, disability, and survivor beneficiaries.

[^1]:    Source: TRS

[^2]:    7228/Buck cert letter 2011 CAFR Draft 1.doc

[^3]:    * Market value through FY08. Five-year prospective smoothing began in FY09.

[^4]:    **Amounts added to and removed from rolls are available beginning with the year ended June 30, 2007.

[^5]:    * The average for the final average salary by years of service are not available for periods before July 1, 2004.

