

California State Teachers' Retirement System COMPREHENSIVE ANNUAL FINANCIAL REPORT

A Component of the State of California For the Fiscal Year Ended June 30, 2007

# FUTURE



Securing the financial future and sustaining the trust of California's educators



#### **No Surprises**

#### **Customer Service**

Provide the customer what they need, when they need it.

#### **One and Done**

#### Quality

Provide timely, accurate, and cost–effective products and services the first time, every time.

#### **Trusted Guide**

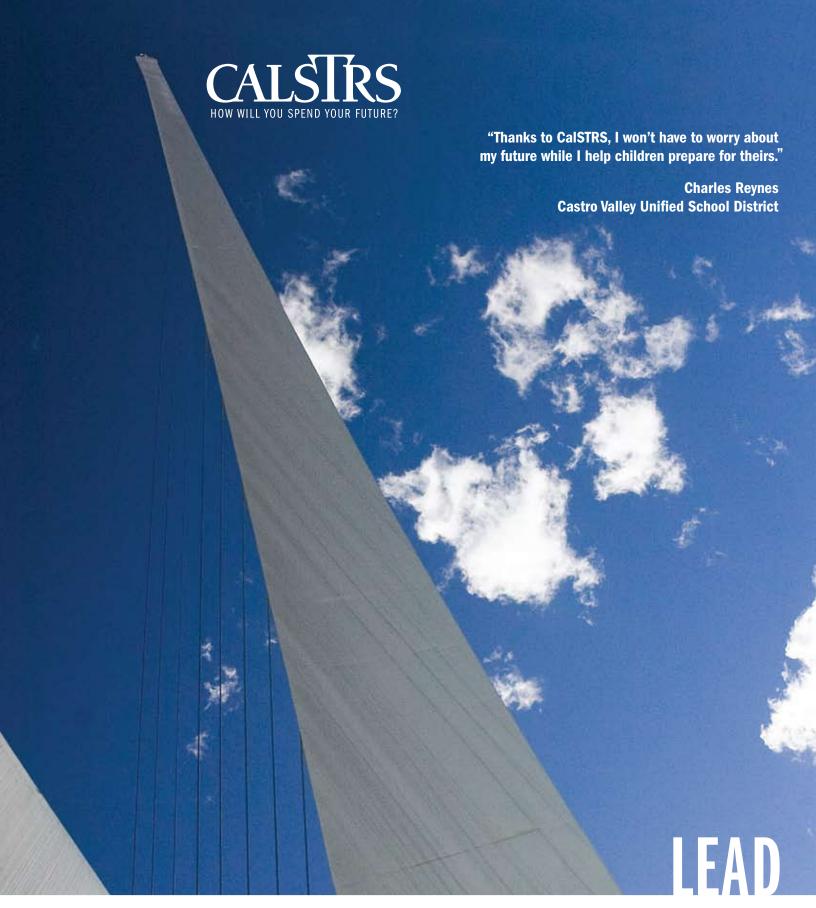
#### **Informed Decisions**

Deliver knowledgeable, compassionate and consistent education and consultation to make smart decisions.

#### **Rock Solid**

#### **Organizational and Financial Strength**

Develop and support our people, ensure the integrity of our systems, and strengthen the trust fund.



## California State Teachers' Retirement System COMPREHENSIVE ANNUAL FINANCIAL REPORT

A Component of the State of California For the Fiscal Year Ended June 30, 2007

Prepared by CalSTRS Staff

## NTRO

NAME Charles Reynes

## **SCHOOL DISTRICT**Castro Valley Unified

#### **WHY I TEACH**

To make children's science experience as exciting as possible. I want to give kids really big, really rich experiences.

### SUBJECT AREA

Science - 4th and 5th grade

CalSTRS member since 1986





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## AWARD: GFOA CERTIFICATE

Certificate of Achievement for Excellence in Financial Reporting

Presented to

### California State Teachers' Retirement System

For its Comprehensive Annual Financial Report for the Fiscal Year Ended June 30, 2006

A Certificate of Achievement for Excellence in Financial Reporting is presented by the Government Finance Officers Association of the United States and Canada to government units and public employee retirement systems whose comprehensive annual financial reports (CAFRs) achieve the highest standards in government accounting and financial reporting.



President

Executive Director



#### INTRODUCTION



California State Teachers'
Retirement System
7667 Folsom Boulevard
Post Office Box 15275
Sacramento, CA 95821-0275

February 4, 2008



The Comprehensive Annual Financial Report of the California State Teachers' Retirement System for the Fiscal Year Ended June 30, 2007 details the performance of our state fund.

CalSTRS financial services

span five generations of Californians and connect a diverse population across 163,707 square miles of state geography. Our services bridge the new teacher just starting out with the retired educator enjoying the fruits of 30 years in the classroom.

The past year saw many changes to the way CalSTRS serves its more than 800,000 members and beneficiaries. From our proactive approach on significant and far-reaching issues like corporate governance and climate change to our continual strengthening of our investment portfolio, the promised retirement benefits remain our foremost concern.

While we have ended the 2006–07 fiscal year with another record high in our investment portfolio, we are continually reminded that behind the CalSTRS numbers, demographics and statistics are California educators who serve our public school students. In recognition of their dedication, we have included a sampling of member reflections within each report section.

#### **MEMBER PROFILE**

CalSTRS provides retirement, disability and survivor benefits to California's 812,784 public school educators and their beneficiaries, from pre-kindergarten through community college. The Teachers' Retirement Law, part of the California Education Code, established these programs with CalSTRS as administrator. The law sets required

member and employer contribution rates. CalSTRS members, as of June 30, 2007, included employees of approximately 1,400 school districts, community college districts, county offices of education and regional occupational programs.

The median CalSTRS pension replaces only 53 percent of final salary for current and retired members. Financial planners recommend income replacement of 80 percent to 85 percent to maintain a similar lifestyle in retirement. Public school teachers do not receive Social Security benefits for their CalSTRS teaching service. Moreover, due to the federal Government Pension Offset and Windfall Elimination Provision, retirees often have their Social Security benefits reduced when receiving a CalSTRS benefit. Most retired educators also do not have employer-sponsored health insurance after age 65.

We continue to reach members in their communities—from Eureka to San Diego—with counseling services and workshops that explain retirement options and stress the need for early savings. With over 40 publications delivered to their home or workplace, we strive to be their trusted guide to retirement.

#### **CaISTRS FUNDING STRATEGY**

As of June 30, 2006, the Defined Benefit Program had an estimated unfunded actuarial obligation of \$19.6 billion, with an estimated 87 percent of the funds needed to fund the cost of the benefit plan. The Teachers' Retirement Board voted to approve a Comprehensive Funding Strategy that will guide the long-term effort towards fully funding the Defined Benefit Program. While our investment income goes a long way to maintaining the health of our fund, providing approximately 70 percent of the member benefits paid, we also realize that we need to take additional steps in order to close the funding gap.

Under California state law, the Defined Benefit Program receives contributions from members and employers set at a percentage of the member's earnings plus

state General Fund contributions. CalSTRS investment earnings finance the cost of administering the State Teachers' Retirement Plan.

#### **INVESTMENTS SECTION**

Through the innovation and measured risk of investment policies, CalSTRS' investment portfolio has doubled over the past ten years. Our members can rest assured that their contributions are well-managed. The following summary of our investment performance reflects the work of our investment staff in solidifying the retirement fund for our members.

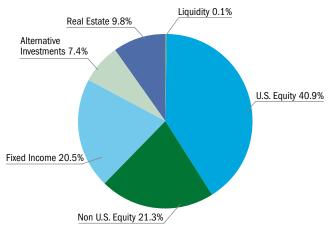
CalSTRS investment portfolio finished with a recordhigh value of \$171.9 billion at the close of the fiscal year, adding \$28.1 billion in fiscal year 2006-07. With an amazing 21.03 percent return in fiscal year 2006-07, CalSTRS investment portfolio has posted four straight years of double-digit returns. Our investment return ranked in the top one percent of public pension plans (as measured by the Trust Universe Comparison Service). Over a three-year period ending June 30, 2007, the fund has earned a 15.07 percent return. CalSTRS remains one of the best performing investment portfolios among public and comparable pension plans across the nation.

The strong performance is the result of CalSTRS broad portfolio diversification into long-term investments. Investments in global real estate and alternative investments (private equity) have outperformed the U.S. and global stock markets. These types of investments—that span five to 15 years—are generally not available to individual investors and cannot be included in mutual funds found in defined contribution and tax-sheltered annuities, but are well suited for long-term investors in institutional pension plans.

The Investment Committee of the Teachers' Retirement Board and CalSTRS investment staff regularly review and revise CalSTRS investment policies. In the past year, CalSTRS revised ten investment policies, from asset allocation targets to investment management approaches among the

#### Asset Allocation as of June 30, 2007

Total investment portfolio of \$171.9 billion



different asset classes. Despite the normal ups and downs of the markets, our investment professionals continue to adapt and effectively respond to the increasing size and complexity of the CalSTRS investment portfolio.

#### **FINANCIAL SECTION**

This section presents the financial performance of our funds in the past fiscal year. Financial statements and notes along with the Management Discussion and Analysis present and analyze the changes in CalSTRS fiduciary net assets for the fiscal year ended June 30, 2007.

CalSTRS maintains a system of internal controls designed to provide reasonable assurance that assets are properly safeguarded, transactions are properly executed and financial statements are reliable. In addition, Audit Services staff performs a yearly enterprise-wide risk assessment to determine processes and operations to include in the yearly audit plan. The Audits and Risk Management Committee is apprised of findings and recommendations and the status of management's implementation of recommendations on a regular basis.

The financial statements have been prepared according to generally accepted accounting principles applied on a consistent basis as stated by the Governmental Accounting Standards Board and its predecessor, the National Council on Governmental Accounting. The Management's Discussion and Analysis provides a narrative introduction, overview and analysis to accompany the basic financial statements.

#### **ACTUARIAL SECTION**

A summary of demographic and economic assumptions adopted from experience studies that CalSTRS conducts every four years is highlighted in this section. These assumptions are applied to an actuary valuation that is performed at a minimum of every two years. The actuarial valuation provides a picture of the overall funding health of our programs, including Defined Benefit, Defined Benefit Supplement, Cash Balance Benefit and Medicare Premium Payment Programs.

A qualified independent actuarial firm and CalSTRS actuarial staff certified the Actuarial section. The last experience study was completed June 30, 2003, and approved by the Teachers' Retirement Board March 4, 2004. The last valuation was completed June 30, 2006, and approved by the Teachers' Retirement Board June 7, 2007.

#### STATISTICAL SECTION

This section connects past and current data. It includes tables that reflect the net assets and demographic characteristics of the Defined Benefit, Defined Benefit Supplement, Cash Balance Benefit, Voluntary Investment and Medicare Premium Payment Programs.

Also captured in the tables, when applicable, is information comparing the last nine years to the previous fiscal year. This look back shows us overall trends in our programs and membership demographics that help us accurately forecast our future ability to meet our member's retirement needs.

#### **GFOA AWARD**

The Government Finance Officers Association of the United States and Canada awarded a Certificate of Achievement for Excellence in Financial Reporting to the California State Teachers' Retirement System for its comprehensive annual financial report for the year ended June 30, 2006. This is the 12<sup>th</sup> consecutive year CalSTRS has received this prestigious award. To be awarded the certificate, a government unit must publish an easily readable and efficiently organized comprehensive annual financial report. Our report must satisfy both generally accepted accounting principles and applicable legal requirements.

#### **ACKNOWLEDGEMENTS**

This 2007 Comprehensive Annual Financial Report is the culmination of the hard work put forth by numerous CalSTRS staff under the leadership and guidance of the Teachers' Retirement Board.

While many have contributed to the successful completion of the report, responsibility for both the accuracy of the financial data and the fairness of the presentation rests with me and the management of CalSTRS.

I would also like to give my thanks to all the staff, advisors and the many other stakeholder organizations who have demonstrated their commitment to ensuring that the California State Teachers' Retirement System meets the needs of its members.

Finally, I would like to praise our members for their dedication and their service to our children, who will become California's future leaders. Our endeavor is to make sure their efforts are rewarded with a secure retirement.

Respectfully submitted,

Jack Ehnes

Chief Executive Officer

## TEACHERS' RETIREMENT BOARD

**AS OF JUNE 30, 2007** 



Dana Dillon
Chair
K-12 Classroom Teacher
Term:
1/1/04 - 12/31/07



**Jerilyn Harris**Vice Chair
Term:
4/29/05 - 12/31/07



Kathy Brugger School Board Representative Term: 9/28/05 – 12/31/07



John Chiang State Controller Ex-Officio Member



Michael C. Genest
State Finance Director
Ex-Officio Member



**Roger Kozberg**Public Representative
Term:
4/28/05 – 12/31/09



Bill Lockyer
State Treasurer
Ex-Officio Member



**Gary Lynes**K-12 Classroom Teacher
Term:
1/1/04 – 12/31/07



Jack O'Connell
State Superintendent of
Public Instruction
Ex-Officio Member



Peter Reinke
Public Representative
Term:
02/14/07 - 02/14/11



Beth Rogers
Public Representative
Term:
9/28/05 - 12/31/07

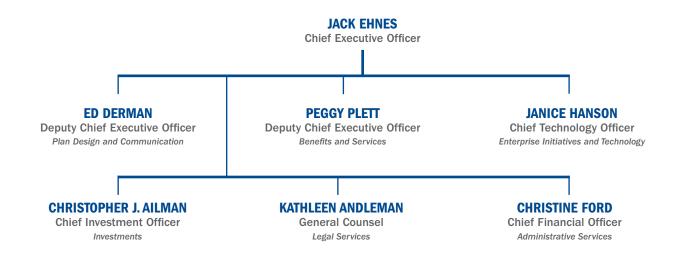


Carolyn A. Widener
Community College Instructor
Term:
1/1/04 - 12/31/07

## **EXECUTIVE STAFF**

Pictured from lower
left to right:
Janice Hanson
Ed Derman
Peggy Plett
Christopher J. Ailman
Jack Ehnes
Kathleen Andleman
Christine Ford





## PROFESSIONAL SERVICES

CalSTRS contracts for the services of various independent consultants essential to the effective and professional operation of the system. Milliman, Inc. provides actuarial services and the independent auditor is Macias Gini & O'Connell LLP. Lists of investment professionals for investment services and other consultants are provided on Schedules IV and V in the financial section of the report.







#### YEAR IN REVIEW

#### Membership

Membership in the CalSTRS Defined Benefit Program includes California public school employees, pre-kindergarten through community college, who teach, are involved in the selection and preparation of instructional materials, or are supervising people engaged in those activities.

Membership is in effect as long as the contributions remain on deposit with the program.

Members are employed in approximately 1,400 public school districts, community college districts, county offices of education and state reporting entities in California. The CalSTRS Defined Benefit Program includes service retirement, benefits for survivors and disability benefits.

A beneficiary of a retired member who has elected an option receives a continuing lifetime benefit upon the retired member's death.

As of June 30, 2007, there were a total of 455,693 active, 141,450 inactive and 215,641 retired members, and disability and survivor benefit recipients. The combined total of members and benefit recipients equals 812,784, an increase of 17,972 from the previous fiscal year.

(The financial statements, presented in the financial section, contain Defined Benefit Program membership data as of June 30, 2006, due to the timing of the independent auditor's report.)

## Benefits to Members and Benefit Recipients

#### **SERVICE RETIREMENT**

CalSTRS is committed to providing exceptional service to its retiring members in keeping with the system's values. The staff provides timely and accurate payments and information about application and benefit payment processes.

In fiscal year 2006–07, 11,762 members applied for retirement, which is a 4.8 percent increase from the previous year.

#### **SURVIVOR BENEFITS**

In fiscal year 2006–07, CalSTRS received 6,210 survivor benefits applications, which is a decrease of 3.9 percent over last fiscal year. Of the applications completed, 77 percent were processed within 30 days from the receipt of the last required document.

#### **DISABILITY BENEFITS**

In fiscal year 2006–07, CalSTRS received 854 applications for disability benefits, representing a slight increase over the previous fiscal year. Of the applications completed during this fiscal year, 92 percent were processed within 180 days of receipt.

The work of the Continuing Qualifications and Vocational Rehabilitation programs resulted in 49 members returning to full-time employment, discontinuing their need to receive disability benefits.

#### Services to Members and Beneficiaries

#### **CUSTOMER SERVICE**

The CalSTRS Customer Service staff responded to 258,913 customer contacts during the 2006–07 fiscal year.

The Call Center customer service representatives responded to the questions and concerns of 224,279 customers. Another 89,721 customers selected alternative services provided within the CalSTRS automated interactive voice response system. The average wait time for callers who opted to speak with a customer service representative was 158 seconds; 58 percent of all calls were answered in less than one minute.

The Correspondence Center staff responded to 32,550 e-mails, online messages and postal correspondence and provided services to 2,084 customers who visited the Member Service counter at the CalSTRS Sacramento office. Staff responded to 31 percent of e-mails within one business day, with an average response time of 2.0 days; 64 percent of all correspondence was completed within three business days.

#### MEMBER COMMUNICATION

CalSTRS communicates four times a year with members and beneficiaries through the *CalSTRS Connections* and the *Retired Educator* newsletters.

CalSTRS Connections is mailed in spring and fall to active and inactive Defined Benefit members and Cash Balance participants. Issues contain helpful information on financial education, retirement planning, legislative summaries and articles concerning educators.

The Retired Educator is mailed in summer and winter to inform retired members and benefit recipients of matters of special interest to them.



CalSTRS annually mails a Retirement Progress Report to its Defined Benefit Program members and Cash Balance Benefit Program participants. This report includes personalized account information, such as service credit and designated beneficiaries. Your Retirement Guide includes important information and the necessary forms to apply for retirement.

The Member Handbook explains all CalSTRS programs. The handbook and single-topic brochures are mailed upon request, given to members during personal interviews, viewed or ordered from our Web site and made available to employers. CalSTRS also mails the Welcome to CalSTRS brochure to newly hired educators.

#### **WEB SITE**

The CalSTRS Web site, www.CalSTRS.com, provides information for members, employers and CalSTRS business partners. Our Web site includes many useful features such as online calculators, which allow members to estimate their retirement benefit and calculate the cost to purchase service credit and to redeposit funds; financial education

and workshop information. A secure site for employers provides county and school district personnel with pertinent information.

When visiting the CalSTRS Web site, CalSTRS members can register for a secure, online service called *my*CalSTRS. This tool provides a messaging function that allows members to send messages and receive e-mail through a secure site.

CalSTRS also administers a Web site entitled 403bCompare.com, which is a state-of-the-art personal investment tool. The site received the 2005 Leadership Recognition Award from the National Association of Government Defined Contribution Administrators for effective communication and for plan design and administration.

Users of the 403bCompare.com Web site can easily compare tax-deferred 403(b) retirement investment products such as annuities and mutual funds. Users of 403bCompare.com can search 403(b) products, place three of them side-by-side and compare their features, including fund descriptions, fees and returns.

#### **BENEFITS COUNSELING**

CalSTRS provides members with the opportunity to meet with a benefits counselor for personalized assistance in retirement planning. CalSTRS counseling sessions can be beneficial to a member at any time during their teaching career. Members have the choice of meeting with a CalSTRS benefits counselor either face-to-face or over the telephone. In fiscal year 2006–07, personal retirement counseling was provided to 38,067 members at more than 30 locations throughout California. In addition, 3,356 members received retirement counseling through a telephone appointment.

#### **MEMBER WORKSHOPS**

CalSTRS offers member workshops which are designed to meet the needs of members at their different career stages. Each workshop includes customized content designed specifically for members in the early or mid-career stages and covers basic details of CalSTRS benefits, retirement planning and personal financial planning. The late-career workshop includes specific retirement information focusing on the CalSTRS retirement formula, lifetime benefits for another person, post-retirement employment, and information sources for prospective retirees. A fourth workshop assists members in managing their retirement income. CalSTRS will provide customized workshops by request.

CalSTRS presented 810 workshops to 20,125 members in fiscal year 2006–07. The workshop atmosphere encourages members to actively participate and to obtain answers to questions.

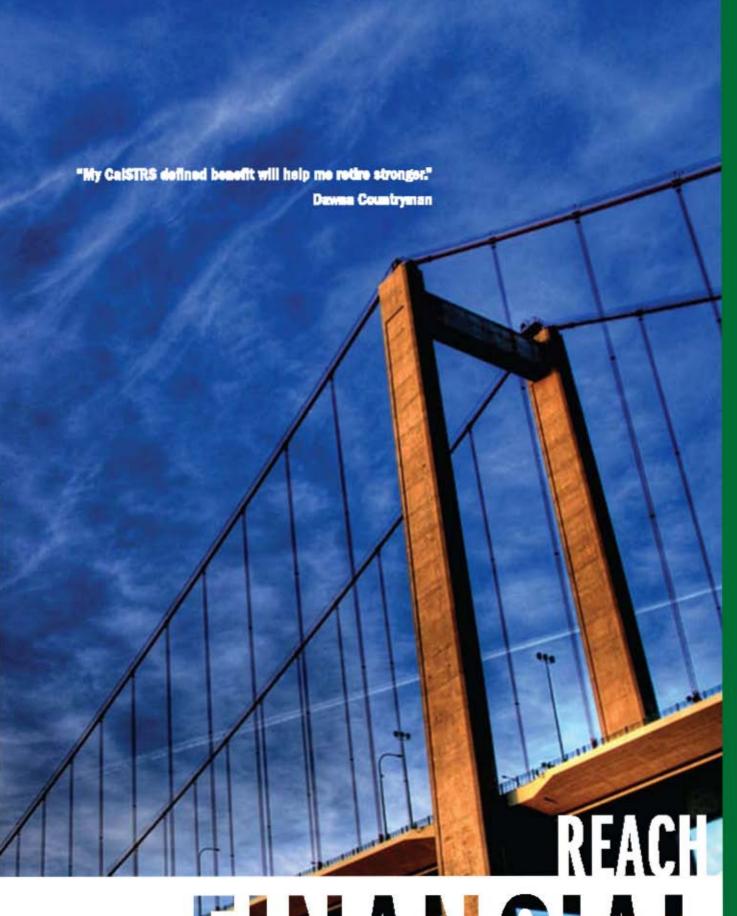
#### Services to Employers, Member and Client Organizations

Two committees meet regularly to provide a forum for active participation in the formation of CalSTRS policies and procedures in areas of information dissemination, benefit plan administration and service to members and beneficiaries. The Employer Advisory Committee is composed of county and district employer representatives and CalSTRS staff. The Client Advisory Committee includes members of various organizations representing CalSTRS members and benefit recipients. CalSTRS employees schedule special meetings with both committees to work closely on plan design and other crucial member and employer issues.

CalSTRS staff also conducts field visits to individual counties and school districts. These visits provide specific information to the employer regarding CalSTRS data reporting process and staff discusses the use of the Remote Employer Access Program. This program allows the employer direct access to the CalSTRS database for verification and review of the member's service and contribution records, thereby improving the accuracy and timeliness of the reporting process.

In addition, CalSTRS outreach staff and benefits counselors attend meetings of school districts, academic associations and other constituent groups to conduct workshops and provide CalSTRS information. The venues include county fairs, annual conferences of academic organizations and meetings of union councils and school administrators.

In fiscal year 2006–07, staff and counselors attended 51 events and served more than 10,409 members.



FINANCIAL

NAME Dawna Countryman

SCHOOL DISTRICT Saugus Union

#### **WHY I TEACH**

I have had so many wonderful learning experiences. So many teachers affected my life, from before kindergarten on. I became a teacher because of them.

## **SUBJECT AREA** Multisubject - 5<sup>th</sup> and 6<sup>th</sup> grade

CalSTRS member since 1990



#### **FINANCIAL**



3000 S Street, Suite 300 Sacramento, CA 95816

2175 N. California Boulevard, Suite 645 Walnut Creek, CA 94596

> 515 S. Figueroa Street, Suite 325 Los Angeles, CA 90071

402 West Broadway, Suite 400 San Diego, CA 92101

To the Teachers' Retirement Board of the California State Teachers' Retirement System Sacramento, California

#### INDEPENDENT AUDITOR'S REPORT

We have audited the accompanying statement of fiduciary net assets of the California State Teachers' Retirement System (the System), a component unit of the State of California, as of June 30, 2007, and the related statement of changes in fiduciary net assets for the year then ended. 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 prior year summarized comparative information has been derived from the System's 2006 financial statements on which our report dated September 22, 2006, expressed an unqualified opinion.

We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free 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 also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and 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 financial statements referred to above present fairly, in all material respects, the fiduciary net assets of the California State Teachers' Retirement System as of June 30, 2007, and the changes in fiduciary net assets for the year then ended in conformity with the accounting principles generally accepted in the United States of America.

As described in Note 1, based on the most recent actuarial valuation as of June 30, 2006, the System's independent actuaries determined that, at June 30, 2006, the value of the Defined Benefit Program's actuarial accrued obligation exceeded the actuarial value of its assets by \$19.6 billion.

As described in Note 2, effective July 1, 2006, the System adopted the provisions of Governmental Accounting Standards Board Statement No. 43, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans.

In accordance with Government Auditing Standards, we have issued our report dated October 1, 2007, on our consideration of the System's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations and contracts, and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with Government Auditing Standards and should be considered in assessing the results of our audit.

The Management's Discussion and Analysis on pages 19 through 23, the Schedule of Funding Progress on pages 43 through 44 and the Schedule of Contributions from Employers and Other Contributing Entities on pages 45 through 46 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 basic financial statements. The other supplemental information listed in the table of contents is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information has been subjected to auditing procedures applied in the audit of the basic financial statements and, in our opinion, is fairly stated in all material respects in relation to the basic financial statements taken as a whole.

Certified Public Accountants

Nacius Dini & O Conseller

Sacramento, California October 1, 2007

#### MANAGEMENT'S DISCUSSION AND ANALYSIS

This Management's Discussion and Analysis (MD&A) of the California State Teachers' Retirement System's (System) financial performance provides an overview of the System's financial activities for the fiscal year ended June 30, 2007. We designed the MD&A to focus on the current year's activities, resulting changes, and currently known facts, and we encourage you to read it in conjunction with the System's financial statements and notes to the financial statements.

The System is primarily responsible for administering retirement, disability, survivor and health benefits, as well as administering a supplemental retirement savings plan for California public school teachers and certain other employees of the State's public school system. The System is comprised of a total of five fiduciary funds:

- 1. Teachers' Retirement Fund (TRF)
- 2. Voluntary Investment Program (VIP)
- 3. Teachers' Health Benefits Fund (THBF)
- 4. Teachers' Replacement Benefits Program Fund (TRBPF)
- 5. Teachers' Retirement Program Development Fund (TRPDF)

#### FINANCIAL HIGHLIGHTS

- Net assets increased by \$28.2 billion or 20% to \$172.6 billion.
- Net investment income totaled \$29.9 billion, an increase of \$13.8 billion or 86%.
- As of June 30, 2006, the System's Defined Benefit Program was estimated to be funded at 87%, compared to an estimated funding level of 86% as of June 30, 2005.
- Total contributions increased by \$256.9 million or 5% to \$5.8 billion.
- Benefit payments increased by \$528.5 million or 8% to \$7.2 billion.
- Refund of members' contributions increased by \$1.2 million or 1% to \$106.2 million.
- The Medicare Premium Payment Program (MPPP) had its first actuarial valuation performed as of June 30, 2006. Under the reporting parameters set by Governmental Accounting Standards Board (GASB) Statement No. 43, Financial Reporting for Postemployment Benefit Plans Other than Pension Plans, the MPPP is .3% funded with an estimated actuarial obligation exceeding actuarial assets by \$793.8 million at June 30, 2006. However, taking into consideration the Defined Benefit (DB) Program statutory employer contributions that exceed the amount needed to finance the actuarial liability of the DB Program based on the June 30, 2000 actuarial valuation, and that are allocated to the MPPP, the MPPP actuarial accrued liability is less than the current value of the excess. The amount of the excess allocated to the MPPP from the June 30, 2000 actuarial valuation was \$1.257 billion and has a value of \$1.687 billion as of the June 30, 2006 actuarial valuation. For the purposes of GASB Statement No. 43 reporting requirements, the \$1.687 billion is not considered in the June 30, 2006 valuation because it is not held in a separate trust.



#### **OVERVIEW OF FINANCIAL STATEMENTS**

This MD&A is an introduction to the System's basic financial statements. The System's financial statements include the following components: (1) fund financial statements, (2) notes to the basic financial statements, (3) required supplementary information, and (4) other supplemental information.

**Fund financial statements.** The statement of fiduciary net assets presents information on all of the System's assets and liabilities, with the difference between the two reported as net assets. Over time, the increase or decrease in net assets serves as a useful indicator of the health of the System's financial position. The statement of changes in fiduciary net assets show how the System's net assets changed during the fiscal year.

**Notes to the financial statements.** The financial statement notes provide additional information that is essential to a full understanding of the data provided in the fund financial statements. Below we describe the information available in the notes to the financial statements.

- Note 1 provides a general description of the System, as well as a concise description of each of the funds administered by the System.
- Note 2 provides a summary of significant accounting policies, including the basis of accounting for the System, management's use of estimates, cash and investment accounting policies, and other significant accounting policies.
- Note 3 provides a summary of the System's funded status and funding progress for the MPPP in accordance with GASB Statement No. 43.
- Note 4 describes investments, including disclosures required by GASB Statement No. 40, Deposit
  and Investment Risk Disclosures, which includes information about the System's investment risk
  related to credit, (including custodial credit and concentrations of credit risk), interest rate, and
  foreign currency risks.
- Note 5 generally describes potential contingencies of the System.
- Note 6 provides a summary of significant commitments incurred by the System.
- Note 7 provides a summary of subsequent events that occur after June 30, 2007.
- Note 8 provides a summary of new accounting and financial reporting pronouncements.

Required supplementary information. The required supplementary information consists of two schedules and related notes on the defined benefit pension and other postemployment benefit plans' funding progress and history of contributions from employers and other contributing entities. These schedules provide historical information that assists in understanding the funded status of the System over time.

Other supplemental information. Other supplemental information includes detailed information on administrative expenses, investment expenses, and consultant and professional services expenses.

#### FINANCIAL ANALYSIS

**Teachers' Retirement Fund (TRF).** The TRF is an employee benefit trust fund created to administer the State Teachers' Retirement Plan (STRP). The STRP is a defined benefit pension plan which provides for retirement, disability, and survivor benefits. The STRP is comprised of three programs: Defined Benefit (DB) Program, Defined Benefit Supplement (DBS) Program, and the Cash Balance (CB) Benefit Program.

The STRP net assets increased 20% during the fiscal year, from \$144.2 billion in fiscal year 2005-06 to \$172.4 billion as of June 30, 2007. Investments, excluding securities lending collateral, increased by \$28 billion or 20% to \$173.6 billion as of June 30, 2007. At June 30, 2007, the STRP held \$35.4 billion in debt securities, an increase of \$3.1 billion or 10% from fiscal year 2005-06. At June 30, 2007, the STRP also held \$105.8 billion in U.S. and international equity securities, an increase of \$14.7 billion or 16% from fiscal year 2005-06. Remaining holdings in short-term, alternative, and real estate investments totaled \$32.4 billion at June 30, 2007, an increase of \$10.5 billion or 48% from fiscal year 2005-06. Net appreciation on investments totaled \$25.2 billion in fiscal year 2006-2007 compared to \$12.2 billion in fiscal year 2005-06, an increase of \$13 billion or 107%.

| N | ET | ASSE | TS |
|---|----|------|----|
|   |    |      |    |

| TOTAL NET ASSETS                            | \$172,377,918 | \$144,212,376 | 20%            |
|---------------------------------------------|---------------|---------------|----------------|
| TOTAL LIABILITIES                           | 37,967,567    | 32,420,438    | 17%            |
| Securities Lending Obligation               | 32,066,614    | 27,626,193    | 16%            |
| Other Liabilities                           | 1,170,751     | 1,275,954     | (8)%           |
| Real Estate Leverage Program Obligation     | 491,850       | 568,049       | (13)%          |
| Investment Settlement                       | 4,183,326     | 2,905,945     | 44%            |
| LIABILITIES  Benefits in Process of Payment | 55,026        | 44,297        | 24%            |
| TOTAL ASSETS                                | 210,345,485   | 176,632,814   | 19%            |
| Other                                       | 1,151         | 1,307         | (12)%          |
| Receivables                                 | 4,273,254     | 3,449,874     | 24%            |
| Cash and Cash Equivalents                   | 423,322       | 309,484       | 37%            |
| Investments                                 | \$205,647,758 | \$172,872,149 | 19%            |
| ASSETS                                      | <u>2007</u>   | <u>2006</u>   | Percent Change |
| Pollars in Thousands)                       |               |               |                |

Includes securities lending collateral.

The System funds STRP benefits from employer, member and State contributions, federal proceeds, and investment earnings. Member contributions overall increased in fiscal year 2006-07 by \$104.2 million or 5% from fiscal year 2005-06. Employer contributions increased by \$82.2 million or 4%. The State contributions increased in fiscal year 2006-07 by \$65.7 million or 6% from fiscal year 2005-06. The STRP experienced a net investment gain of \$29.8 billion in fiscal year 2006-07 compared with \$16.1 billion in fiscal year 2005-06.

| CHANGES IN     | NET ASSETS |
|----------------|------------|
| (Dollars in Th | oncande)   |

| Dollars in Thousands)   |               |               |                |
|-------------------------|---------------|---------------|----------------|
| ADDITIONS               | <u>2007</u>   | <u>2006</u>   | Percent Change |
| Member/Participant      | \$2,334,954   | \$2,230,754   | 5%             |
| Employer                | 2,285,728     | 2,203,548     | 4%             |
| State/Federal           | 1,084,387     | 1,018,720     | 6%             |
| Investment/Other Income | 29,840,439    | 16,077,792    | 86%            |
| TOTAL ADDITIONS         | 35,545,508    | 21,530,814    | 65%            |
| DEDUCTIONS              |               |               |                |
| Benefit Payments        | 7,167,918     | 6,649,007     | 8%             |
| Refund of Contributions | 106,153       | 97,453        | 9%             |
| Administrative Expenses | 105,895       | 95,611        | 11%            |
| TOTAL DEDUCTIONS        | 7,379,966     | 6,842,071     | 8%             |
| NET ASSET INCREASE      | 28,165,542    | 14,688,743    | 92%            |
| BEGINNING NET ASSETS    | 144,212,376   | 129,523,633   | 11%            |
| ENDING NET ASSETS       | \$172,377,918 | \$144,212,376 | 20%            |

Deductions, which include benefit payments, refund of contributions and administrative expenses, totaled \$7.4 billion for the year. Growth in the number of new retirees increased benefit payments to \$7.2 billion, an increase of \$518.9 million or 8% over the prior year. Refund of contributions in fiscal year 2006-07 increased \$8.7 million or 9% to \$106.2 million. Administrative expenses in fiscal year 2006-07 increased \$10.3 million or 11% to \$105.9 million.

The most recent actuarial valuation for the fiscal year ended June 30, 2006, indicates that the DB Program is underfunded, with 87% of the funds needed to pay the actuarial cost of the benefits accrued as of June 30, 2006. This is an increase from the 86% estimated funding status as of June 30, 2005. The amount by which the DB Program actuarial obligation exceeded actuarial assets was \$19.6 billion as of June 30, 2006. The actuarial value of the assets for the program excludes \$1.687 billion in assets allocated to the MPPP. The most recent actuarial valuation indicates that the DB Program's expected future revenue will be insufficient to finance its obligations including amortization of the unfunded status over the next 30 years.

Voluntary Investment Program (VIP). The VIP is a tax-deferred defined contribution plan and meets the requirements of the Internal Revenue Code, Section 403(b). CitiStreet, L.L.C provides administrative services for VIP. This program's benefits are the accumulation of contributions and investment earnings credited to the member's account at the time of retirement, disability or termination of employment. Through the VIP, members have the opportunity to supplement their pension benefits. The VIP's June 30, 2007 investments increased by \$36.7 million or 28% and net assets increased by \$36.9 million or 28%.

Contributions by members in fiscal year 2006-07 increased by \$1.8 million or 9% and investment income in fiscal year 2006-07 increased \$12.5 million or 122% from the previous fiscal year. Deductions from the VIP decreased by \$1.5 million or 14% to \$9.2 million.

**Teachers' Health Benefits Fund (THBF).** The THBF is a trust fund created to administer health benefit programs for members of the Defined Benefit Program. The Medicare Premium Payment Program (MPPP), the only program within the fund, pays Medicare Part A premiums and surcharges and Part B surcharges for members meeting certain eligibility criteria.

The System funds the MPPP from current employer contributions, which increased by \$2.7 million or 9% to \$32.3 million during fiscal year 2006-07. The THBF paid benefits of \$31.3 million in fiscal year 2006-07 compared with \$29.3 million the prior year. The System invests the assets of the THBF in the State of California's Surplus Money Investment Fund and earned \$240 thousand in interest income for the fiscal year ended June 30, 2007.

**Teachers' Replacement Benefits Program Fund (TRBPF).** The TRBPF is a replacement pension benefit plan established to pay the portion of annual benefits that exceed the annual limitations under Section 415 of the Internal Revenue Code of 1986 (26 U.S.C. Section 415). Current employer contributions fund this benefit program on an as needed basis. The TRBPF received contributions of \$514 thousand to pay benefits during fiscal year 2006-07.

**Teachers' Retirement Program Development Fund (TRPDF).** The TRPDF is a trust fund established to pay any costs related to the development of programs authorized by statute that enhance the financial security of members or beneficiaries for the System. The TRPDF was initially funded with \$200,000 of employer contributions during the fiscal year ended June 30, 2007 for the purpose of developing the Compliance and Administration Program which will provide total 403(b) administration and compliance services to school districts that contract with the System for such services.

#### REQUESTS FOR INFORMATION

This Financial Report is designed to provide a general overview of the System's finances. For questions concerning any information in this report or for additional information, contact the California State Teachers' Retirement System, P.O. Box 15275, Sacramento, CA 95851-0275.

## California State Teachers' Retirement System Statement of Fiduciary Net Assets

As of June 30, 2007 (with Comparative Totals as of June 30, 2006) (Dollars in Thousands)

|                                                                                                                                                             | Teachers'<br>Retircment | Voluntary<br>Investment | l'eachers'<br>Health<br>Benefits | Teachers'<br>Replacement<br>Benefits | Teachers' Retirement Program Development | Comparativ                              | ve Totals                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|----------------------------------|--------------------------------------|------------------------------------------|-----------------------------------------|------------------------------|
|                                                                                                                                                             | Fund                    | Program                 | Fund                             | Program Fund                         | Fund                                     | 2007                                    | 2006                         |
| Assets                                                                                                                                                      |                         |                         |                                  |                                      |                                          |                                         |                              |
| Investments, at fair value:                                                                                                                                 | NATION AND ADDRESS OF   | 9.59                    | 224 St (24622)                   | 520                                  | 97                                       |                                         |                              |
| Short term                                                                                                                                                  | \$ 1,724,639            | \$ 26,669               | \$ 2,197                         | \$ -                                 | \$ -                                     | \$ 1.753,505                            | \$ 1,532.207                 |
| Debt securities                                                                                                                                             | 35,395,073              | -                       | -                                | N-22                                 | <u> </u>                                 | 35,395,073                              | 32,269,214                   |
| Equities:                                                                                                                                                   |                         |                         |                                  |                                      |                                          | each Challe had College and Chillian    | rando Ariotesa visitario Med |
| Domestic                                                                                                                                                    | 68,306.223              | :( <del>=</del> )       | 1=1                              | 5 <b>H</b>                           | 340                                      | 68.306.223                              | 59,826,205                   |
| International                                                                                                                                               | 37,507.109              | (m)                     | 2 <del>4</del> 0                 | 6 <b>4</b> 1                         | <b>:=</b> 8                              | 37,507,109                              | 31,242,535                   |
| Mutual funds                                                                                                                                                | ~                       | 142,027                 | 155                              | 1000                                 | (5)                                      | 142,027                                 | 107.542                      |
| Alternative investments                                                                                                                                     | 12,634.835              | 7.                      | 875                              | 8. <del>7</del> 6                    | 576                                      | 12,634,835                              | 8,609,513                    |
| Real estate investments<br>Securities lending                                                                                                               | 18.013,265              | 8                       | •                                | e <del>d</del> i                     | =                                        | 18.013,265                              | 11,792.384                   |
| collateral                                                                                                                                                  | 32,066,614              | PARTICULAR CONTRACTOR   | 100 E                            |                                      | 120                                      | 32,066,614                              | 27.626.193                   |
| Total investments                                                                                                                                           | 205,647,758             | 168,696                 | 2,197                            |                                      | <u> </u>                                 | 205,818,651                             | 173,005,793                  |
| Cook and sod                                                                                                                                                |                         |                         |                                  |                                      |                                          |                                         |                              |
| Cash and cash equivalents                                                                                                                                   | 423,322                 | <u>=</u>                | 2                                |                                      | 200                                      | 423.524                                 | 309,484                      |
| ENUMERO EN                                                                                                              |                         |                         |                                  |                                      |                                          | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 27.77.2.117.                 |
| Receivables:                                                                                                                                                |                         |                         |                                  |                                      |                                          |                                         |                              |
| Investments sold<br>Foreign currency                                                                                                                        | 1,073.288               | -                       | -(                               | -                                    | 120                                      | 1,073,288                               | 1,215,865                    |
| contracts                                                                                                                                                   | 2,060,407               |                         |                                  | =                                    | (=)                                      | 2,060,407                               | 852,284                      |
| Interest and dividends<br>Member, employer and                                                                                                              | 529,094                 | 122                     | 72                               | 장                                    | <del>- 1</del>                           | 529.288                                 | 455,590                      |
| other                                                                                                                                                       | 610,465                 | 1.056                   | 1,519                            |                                      | 121                                      | 613,040                                 | 928,461                      |
| Total receivables                                                                                                                                           | 4,273,254               | 1.178                   | 1,591                            | F.                                   |                                          | 4,276,023                               | 3,452,200                    |
| Other assets                                                                                                                                                | 1,151                   |                         | 7                                | <u> </u>                             | ( <u>-</u> )                             | 1,151                                   | 1,307                        |
| Total assets                                                                                                                                                | 210,345,485             | 169,874                 | 3,790                            |                                      | 200                                      | 210,519,349                             | 176,768,784                  |
| Liabilities Investments purchase payable                                                                                                                    | 2,121,719               | ā                       | ā                                |                                      |                                          | 2,121,719                               | 2,051,505                    |
| Foreign currency contracts payable                                                                                                                          | 2,061.607               | 돧                       | 2                                | Ť                                    | 8                                        | 2,061,607                               | 854,440                      |
| Benefits in process of<br>payment<br>Real estate leverage                                                                                                   | 55.026                  | -                       | Ħ                                | ×                                    | ~                                        | 55,026                                  | 44,297                       |
| program obligation                                                                                                                                          | 491,850                 |                         | -                                |                                      | (=)                                      | 491,850                                 | 568.049                      |
| Other liabilities<br>Securities lending                                                                                                                     | 1,170,751               | •                       | 27                               | =                                    | 202                                      | 1,170.980                               | 1,276,238                    |
| obligation                                                                                                                                                  | 32,066,614              | Æ                       | <u>u</u>                         | 9                                    |                                          | 32,066,614                              | 27,626,193                   |
| Total liabilities                                                                                                                                           | 37,967,567              | 12                      | 27                               | 2                                    | 202                                      | 37.967,796                              | 32.420,722                   |
| Net assets/(deficit) held<br>in trust for pension and<br>other postemployment<br>benefits (schedules of<br>funding progress are<br>presented in Schedule I) | \$172,377,918           | \$ 169,874              | \$ 3,763                         | <b>s</b> -                           | \$ (2)                                   | \$172,551.553                           | \$144.348,062                |

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

## California State Teachers' Retirement System Statement of Changes in Fiduciary Net Assets For the Fiscal Year Ended June 30, 2007 (with Comparative Totals for the Fiscal Year Ended June 30, 2006) (Dollars in Thousands)

| Contributions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                     | Teachers'<br>Retirement<br>Fund | Voluntary<br>Investment<br>Program | Teachers'<br>Health<br>Benefits<br>Fund | Teachers'<br>Replacement<br>Benefits<br>Program Fund | Teachers' Retirement Program Development Fund | Comparat                               | ive Totals<br>2006                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------|-----------------------------------------|------------------------------------------------------|-----------------------------------------------|----------------------------------------|-----------------------------------------|
| Member contributions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Additions                                                                                                                                                           |                                 |                                    |                                         |                                                      |                                               |                                        | _0.05                                   |
| Member contributions   S. 2,33,4954   S. 23,338   S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                     |                                 |                                    |                                         |                                                      |                                               |                                        |                                         |
| Federal Government   1,084.387   -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Member contributions<br>Employer contributions                                                                                                                      |                                 | S 23,338                           |                                         |                                                      |                                               |                                        |                                         |
| Total contributions   \$,705,069   23,338   32,257   514   200   5,761,378   5,504,463     Investment Income: Net appreciation (realized & uneralized & uneralized & uneralized in fort value of investments   25,236,343   13,124   -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                     | 1.084.387                       | ( <b>=</b> 3)                      | -                                       | =                                                    | =                                             | 1.084.387                              | 1.018.720                               |
| Next superciation of creatized it interest.   Next appreciation of |                                                                                                                                                                     |                                 | 23,338                             | 32,257                                  | 514                                                  | 200                                           | Delicate a released and a second and   | 111100000000000000000000000000000000000 |
| Not appreciation (realized & unrealized) in fair value of investments   25,236,343   13,124   -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                     |                                 |                                    |                                         | 200 pt 400 0 1 pt 400 0                              |                                               |                                        |                                         |
| Net investment income                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Net appreciation<br>(realized &<br>unrealized) in fair                                                                                                              |                                 |                                    |                                         |                                                      |                                               |                                        |                                         |
| Securities lending   1,573,052   3   3   3   3   3   3   3   3   3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                     | 25,236.343                      | 13,124                             | ê <u>₩</u> 8:                           | 20                                                   | =======================================       | 25.249,467                             | 12,220,031                              |
| Transmer   1,573,052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | other                                                                                                                                                               | 4,670.151                       | 9,669                              | 240                                     | 29                                                   | ¥                                             | 4,680,060                              | 3,913,774                               |
| Clubri investment expenses   Clubri   | income<br>Less investment                                                                                                                                           | 1,573,052                       |                                    | (#8)                                    | -                                                    | =                                             | 1,573,052                              | 1,087,366                               |
| Net investment income   29,839,884   22.793   240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | securities                                                                                                                                                          | (1.493,236)                     | ( <u>U</u> )                       | (2)                                     |                                                      | ÷                                             | (1,493,236)                            | (1,020,130)                             |
| Income   29,839,884   22,793   240   - 29,862,917   16,088,112     Other income   555   16   571   68     Total additions   35,545,508   46,147   32,497   514   200   35,624,866   21,592,643      Deductions   Retirement, disability, death and survivor benefits   6,937,581   - 31,270   507   - 6,969,358   6,455,911     Distributions and withdrawals   - 8,451   8,451   9,767     Purchasing power benefits   230,337   8,451   9,767     Purchasing of member contributions   106,153   230,337   215,258     Refunds of member contributions   106,153   782   190   7   202   107,076   96,905     Total deductions   7,379,966   9,233   31,460   514   202   7,421,375   6,882,775      Net increase/decrease   28,165,542   36,914   1,037   (2)   28,203,491   14,709,868     Net assets/(deficit) held in trust for pension and other postemployment benefits   144,348,062   129,638,194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | expenses                                                                                                                                                            | (146,426)                       |                                    | -                                       |                                                      | -                                             | (146,426)                              | (112,929)                               |
| Deductions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                     | 29,839,884                      | 22.793                             | 240                                     | 0.01 0.00                                            | A 00 along                                    | 29,862,917                             | 16,088,112                              |
| Deductions   Retirement, disability, death and survivor benefits   6,937.581   - 31,270   507   - 6,969,358   6,455,911                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Other income                                                                                                                                                        | 555                             | 16                                 |                                         |                                                      | and the same of                               | 571                                    | 68                                      |
| Retirement, disability, death and survivor benefits 6,937,581 - 31,270 507 - 6,969,358 6,455,911  Distributions and withdrawals - 8,451 8,451 9,767  Purchasing power benefits 230,337 230,337 215,258  Refunds of member contributions 106,153 106,153 104,934  Administrative expenses 105,895 782 190 7 202 107,076 96,905  Total deductions 7,379,966 9,233 31,460 514 202 7,421,375 6,882,775  Net increase/decrease 28,165,542 36,914 1,037 - (2) 28,203,491 14,709,868  Net assets/(deficit) held in trust for pension and other postemployment benefits  Beginning of the year 144,212,376 132,960 2,726 144,348,062 129,638,194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Total additions                                                                                                                                                     | 35,545,508                      | 46,147                             | 32,497                                  | 514                                                  | 200                                           | 35.624,866                             | 21,592,643                              |
| Net increase/decrease         28,165,542         36,914         1,037         -         (2)         28,203,491         14,709,868           Net assets/(deficit) held in trust for pension and other postemployment benefits           Beginning of the year         144,212,376         132,960         2,726         -         -         144,348,062         129,638,194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Retirement, disability, death and survivor benefits Distributions and withdrawals Purchasing power benefits Refunds of member contributions Administrative expenses | 230.337<br>106,153<br>105,895   | 782                                | 190                                     | -<br>-<br>-<br>7                                     | 202                                           | 8,451<br>230,337<br>106.153<br>107.076 | 9,767<br>215,258<br>104,934<br>96,905   |
| Net assets/(deficit) held in trust for pension and other postemployment henefits  Beginning of the year 144.212.376 132,960 2,726 - 144,348.062 129,638,194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | rotal deductions                                                                                                                                                    | 7,379,900                       | 9,233                              | 31,460                                  | 514                                                  | 202                                           | 7,421,373                              | 6,882,773                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                     | Posterité les materials par le  | ESPACION FOR SE                    | 5 <b>6</b> 2(23)                        | nt benefits                                          | (2)                                           | 28,203,491                             | 14,709,868                              |
| End of the year \$172.377,918 \$ 169,874 \$ 3,763 \$ - \$ (2) \$172,551,553 \$144,348,062                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Beginning of the year                                                                                                                                               | 144.212.376                     | 132,960                            | 2,726                                   | <u>-</u>                                             | _                                             | 144,348.062                            | 129,638,194                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | End of the year                                                                                                                                                     | \$172.377,918                   | \$ 169,874                         | \$ 3,763                                | \$ -                                                 | \$ (2)                                        | \$172.551,553                          | \$144,348,062                           |

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

#### California State Teachers' Retirement System

Notes to the Basic Financial Statements

#### 1. Description of the System and Contribution Information

The California State Teachers' Retirement System (System) is the administrator of cost-sharing multiple-employer pension plans, a tax-deferred defined contribution plan, the Medicare Premium Payment Program and the Replacement Benefits Program as described below. The State Education Code known as the Teachers' Retirement Law (Section 22000 et. seq.), as amended and enacted by the State of California (State) Legislature established these plans and programs and the System as the administrator. The System is a component unit of the State. These financial statements include only the accounts of the System. The State includes the System's basic financial statements as a fiduciary fund in its financial statements. The System provides pension benefits to California full-time and part-time public school teachers from preschool through grade fourteen and certain other employees of the public school system.

#### Teachers' Retirement Fund (TRF)

The TRF is used to account for the State Teachers' Retirement Plan (STRP) which is comprised of three programs: the Defined Benefit Program (DB Program), the Defined Benefit Supplement Program (DBS Program) and the Cash Balance Benefit Program (CB Benefit Program). STRP holds these assets for the exclusive purpose of providing benefits to members and beneficiaries of the DB Program, the DBS Program and the CB Benefit Program. Also, the System uses these assets to defray reasonable expenses of administering the STRP and the System.

#### STRP Defined Benefit Program (DB Program)

The DB Program is a defined benefit pension plan. At June 30, 2007, there were over 1,600 contributing employers (school districts, community college districts, county offices of education and regional occupational programs). The State is a contributor to the STRP. Membership is mandatory for all employees meeting certain statutory requirements, and optional for all other employees performing creditable service. At June 30, 2006, membership consisted of:

| Active | Memb | ers |
|--------|------|-----|

| Vested                                    | 292,704 |
|-------------------------------------------|---------|
| Nonvested                                 | 160,661 |
| Inactive members                          | 133,601 |
| Retirees and benefit recipients           | 207,846 |
| Total members, retirees and beneficiaries | 794,812 |
|                                           | ·       |

Information as of June 30, 2007 will not be available prior to December 2007.

The DB Program provides defined retirement benefits based on members' final compensation, age, and years of credited service. In addition, the retirement program provides benefits to members upon disability, and to survivors/beneficiaries upon the death of eligible members. Benefit provisions include:

- After five years of credited service, members become 100% vested in retirement benefits earned to date. Members are eligible for normal retirement at age 60. The normal retirement benefit is equal to 2% of final compensation for each year of credited service. Early retirement options are available at age 55 or as early as age 50 with 30 years of credited service. The age factor for retirements after age 60 increases with each quarter year of age to 2.4% at age 63 or older. Members who have 30 years or more of credited service shall receive an additional 0.2% of final compensation. In no event shall the total benefit factor exceed 2.4%.
- The System calculates retirement benefits based on a one-year final compensation for members who retire on or after January 1, 2001, with 25 or more years of credited service, or for classroom teachers with less than 25 years of credited service if the employer elects to pay the additional benefit cost. One-year final compensation means a member's highest average annual compensation earnable calculated by taking the creditable compensation that a member could earn in a school year while employed, if he or she were employed on a full-time basis, and if that person worked full time in that position during any period of 12 consecutive months. For all other members, final compensation is defined as the highest average annual compensation earned during any three consecutive years of credited service.
- Members who retire on or after January 1, 2001, and accumulate at least 30 years of credited service by January 1, 2011, will receive a longevity bonus.
- After five years of credited service, a member (prior to age 60 if under Coverage A, no age limit if under Coverage B, as defined in Education Code Sections 24001 and 24101, respectively) is eligible for disability benefits of up to 50% of final compensation plus 10% of final compensation for each eligible child, up to a maximum addition of 40%. The member must have a disability that will exceed a period of twelve or more months to qualify for a benefit.
- A family benefit is available if an active member died and had at least one year of credited service.
- Members' accumulated contributions are refundable with interest upon separation from the System. The Board determines the credited interest rate each fiscal year. For the year ended June 30, 2007, the rate of interest credited to members' accounts is 4.25%.

Purchasing power protection is provided to members of the DB Program through the Purchasing Power Protection Program. Annual distributions (in quarterly payments) to retired and disabled members and beneficiaries restore purchasing power to a minimum of 80% of the initial monthly allowance. The annual contribution needed to meet the obligation of the Purchasing Power Protection Program on an actuarial basis has not been determined. Funding for the Purchasing Power Protection Program is from School Lands Revenue and the Supplemental Benefit Maintenance Account (SBMA). Public Resources Code Section 6217.5 appropriates School Lands Revenue. The State is required to contribute 2.5% of prior fiscal year teacher payroll to fund the SBMA. In addition, the proceeds from the sale of the Elk Hills Naval Petroleum Reserve are appropriated in annual installments by the federal government to be deposited to the SBMA.

In fiscal year 2006-07, the State statutory SBMA contribution is \$598.4 million.

#### **Required Contributions**

Required member and employer contribution rates are set by the Teachers' Retirement Law. Required contribution rates are expressed as a level percentage of payroll using the entry age normal actuarial cost method. The System also uses the level percentage of payroll method to calculate the amortization of any unfunded liability.

A summary of statutory contribution rates and other sources of contributions to the DB Program is as follows:

Members

 6% of applicable member earnings through December 31, 2010, increasing to 8% thereafter.

**Employers** 

- 8.25% of applicable member earnings.

State

- Beginning July 1, 1999, under Education Code Section 22955, the General Fund transferred annually to the DB Program an amount equal to 3.102% of total creditable earnings of the immediately preceding calendar year to fund certain benefit enhancements effective January 1, 1999. The enactment of Chapter 1021, Statutes of 2000 (AB 2700) provided for a reduction in such funding from the General Fund to a factor of 2.5385% beginning July 1, 2000. The funding was further reduced to 1.9750% beginning July 1, 2001, and effective through June 30, 2003. Beginning July 1, 2003, the rate increased to 2.017% of the member's creditable earnings from the fiscal year ending in the prior calendar year.

Beginning October 1, 1998, a statutory contribution rate of 0.524%, adjustable annually in 0.25% increments up to a maximum of 1.505%, of the creditable earnings of the immediately preceding calendar year was established under Education Code Section 22955. This contribution is reduced to zero if there is no unfunded actuarial obligation and no normal cost deficit for benefit plans in place as of July 1, 1990. Based on the most recent actuarial valuation, as of June 30, 2006, there is no normal cost deficit or unfunded obligation for benefits in place as of July 1, 1990. As a result, the General Fund is not required to contribute quarterly payments starting October 1, 2007.

In the most recent actuarial valuation as of June 30, 2006, the System's actuaries determined that, at June 30, 2006, the value of the DB Program's actuarial accrued obligation exceeded the program's actuarial value of assets by \$19.6 billion. The actuarial value of the assets for the program excludes \$1.687 billion in assets allocated to the MPPP. Based on this valuation, the current statutory contributions are equivalent to 17.656% of covered payroll and are sufficient to fund normal cost (16.820% of covered payroll) but not expected to be sufficient to amortize the unfunded actuarial obligation. While certain risks related to the global financial markets may affect the fair value of the System's investment portfolio, the System's management is continually evaluating the impact of market fluctuations on the assets of the DB Program. However, future estimates of the actuarial unfunded obligation may change due to market performance, legislative actions and other experience that may differ from the actuarial assumptions.

#### STRP Defined Benefit Supplement Program (DBS Program)

The DBS Program, established pursuant to Chapter 74, Statutes of 2000 (AB 1509), is a defined benefit pension plan that operates within the STRP. All persons who were active members of the DB Program on or after January 1, 2001, are also members of the DBS Program.

Beginning January 1, 2001, and continuing through December 31, 2010, 2% of applicable member earnings for service less than or equal to one year of creditable service per fiscal year are credited to the members' nominal DBS Program accounts. In addition, beginning July 1, 2002, for service in excess of one year of service credit within one fiscal year, the member contributions of 8% and employer contributions of 8% are credited to the members' nominal DBS program account. Also, contributions for the compensation as a result of retirement incentives or limited term enhancements are credited to the members account. Interest is credited to the nominal DBS Program accounts at the minimum guaranteed annual rate established by the Teacher's Retirement Board (Board) prior to each plan year, which was 4.75% for the fiscal year ended June 30, 2007. The Board may credit additional earnings to members' nominal accounts if actual investment earnings exceed the expected rate of return. On June 7, 2007, the Board granted additional earnings of 2.49% of active and inactive members' June 30, 2006 nominal accounts and additional annuity credits of 2.49% of retired members' nominal accounts as of their retirement date. The dollar value of these credits was \$88.2 million based on the June 30, 2006 DBS Program actuarial valuation.

In the actuarial valuation, of the DBS Program's assets and liabilities as of June 30, 2006, the System's independent actuaries determined that the actuarial value of assets of the DBS Program exceeded the actuarial obligation by \$335 million including taking into account \$88.2 million in additional earning and annuity credits. While certain risks related to the global financial markets may affect the fair value of the System's investment portfolio, the System's management is continually evaluating the impact of market fluctuations on the assets of the DBS Program. However, future estimates of the actuarial obligation may change due to market performance, legislative actions and other experience that may differ from the actuarial assumptions.

#### STRP Cash Balance Benefit Program (CB Benefit Program)

The CB Benefit Program, established under Chapter 592, Statutes of 1995 and subsequently merged into the STRP by Chapter 1048, Statutes of 1998 (SB 2085), is a defined benefit pension plan. The CB Benefit Program is designed for employees of California's public schools who are hired to perform creditable service for less than 50% of the full-time equivalent for the position. Interest is credited to the nominal CB Benefit Program accounts at the minimum guaranteed annual rate established by the Board prior to each plan year, which was 4.75% for the year ended June 30, 2007. The Board may credit additional earnings to members' nominal accounts if actual investment earnings exceed the expected rate of return. On June 7, 2007, the Board granted additional earnings credit of 1.18% of active and inactive members' June 30, 2006 nominal accounts and additional annuity credits of 1.189% of retired members' June 30, 2006 nominal accounts. The dollar value of these credits was \$733,000 based on the June 30, 2006 CB Benefit Program actuarial valuation.

Participation in the CB Benefit Program is optional to school districts, community college districts, county offices of education, and regional occupational programs. A school district, community college district, county office of education, or regional occupational program may elect to offer the CB Benefit Program. Under such election, the program will automatically cover each eligible employee, unless the employee elects to participate in the DB Program or an alternative plan provided by the employer within 60 days of hire or the election period determined by the employer.

A summary of statutory contribution rates for the CB Benefit Program is as follows:

Participants - 4% of applicable participant earnings

Employers - 4% of applicable participant earnings

Employers may enter into a collective bargaining agreement to pay different rates if certain minimum conditions are met. At June 30, 2007, there were 30 contributing school districts and 23,941 contributing participants.

In their most recent actuarial valuation as of June 30, 2006, the System's independent actuaries determined that the actuarial value of assets of the CB Benefit Program exceeded the actuarial obligation by \$6 million including taking into account \$733,000 in additional earnings and annuity credits. While certain risks related to the global financial markets may affect the fair value of the System's investment portfolio, the System's management is continually evaluating the impact of market fluctuations on the assets of the CB Benefit Program. However, future estimates of the actuarial obligation may change due to market performance, legislative actions and other experience that may differ from the actuarial assumptions.

#### Voluntary Investment Program (VIP)

The VIP (formerly STRS 403(b) Program) was established pursuant to Chapter 291, Statutes of 1994. Under the requirements of Internal Revenue Code (IRC) Section 403(b), the VIP is a tax-deferred defined contribution plan and is open to any employee from the State's school districts, community college districts, county offices of education and regional occupational programs. Contributions to the program are voluntary and are not subject to a minimum limitation; however, the IRC establishes a maximum amount that can be contributed annually. At June 30, 2007, there were 3,878 plan participants and 400 participating employers (school districts).

CitiStreet, L.L.C. provides administrative services to the VIP, including custody and record keeping services. The VIP's investments are comprised of the Share Accounted Mutual Funds, Mutual Fund Window Account and Citi Institutional Liquid Reserves Fund. The Share Accounted Manager invests in various mutual funds. The Mutual Fund Window Account allows plan participants to select and invest in various domestic and international stock and mutual funds. The Citi Institutional Liquid Reserves Fund invests in various money market instruments.

#### **Teachers' Health Benefits Fund (THBF)**

The THBF was established pursuant to Chapter 1032, Statutes of 2000 (SB 1435) to provide the Medicare Premium Payment Program (MPPP), a cost-sharing multiple-employer other postemployment benefit plan, to retired members of the DB Program. At June 30, 2007, there were 6,225 retirees participating in the MPPP. The number of active members and terminated vested members who will participate in the program after they retire is unknown because eligibility cannot be determined.

The MPPP was established to pay Medicare Part A premiums and Medicare Parts A and B late enrollment surcharges for DB Program members who are retired or will retire prior to July 1, 2001 and who meet certain other eligibility criteria. Subsequently the MPPP has been extended several times. The Board most recently extended the MPPP on April 5, 2007 to members who retired or will retire prior to July 1, 2012. Extending the MPPP to members who retired or will retire before July 1, 2012 will result in an increase in the costs for the MPPP of between \$85 million and \$150.6 million. The increase in cost is an estimate and the extension of benefits will be included as part of the actuarial accrued liability in the next actuarial valuation.

As a convenience, the System also deducts Medicare Part B premiums from the members' allowance and forwards the premiums to the Centers for Medicare and Medicaid Services, the federal agency that administers Medicare.

#### Teachers' Replacement Benefits Program Fund (TRBPF)

IRC Section 415(b) imposes a dollar limit on the annual retirement benefits an individual may receive from a qualified defined benefit pension plan. The TRBPF was established pursuant to Chapter 465, Statutes of 1999 (AB 819) and initially funded during the year ended June 30, 2001, to provide benefits to the members of the System whose retirement benefit exceeds IRC limits.

The TRBPF is funded as needed. Monthly employer contributions are received by the TRBPF and paid to members in amounts "equivalent to" the benefits not paid as a result of IRC Section 415(b), subject to withholding for any applicable income or employment taxes. During fiscal year 2006-07, there were 36 retirees participating in the TRBPF.

#### Teachers' Retirement Program Development Fund (TRPDF)

The TRPDF was established pursuant to Chapter 780, Statutes of 2006 (AB 2462) to pay any costs related to the development of programs authorized by statute that enhance the financial security of members or beneficiaries for the System.

The TRPDF was initially funded with \$200,000 of employer contributions during the fiscal year ended June 30, 2007 for the purpose of developing the Compliance and Administration Program which will provide total 403(b) administration and compliance services to school districts that contract with the System for such services. These services will allow school districts to comply with new 403(b) regulations that impose new compliance responsibilities on employers. As of June 30, 2007, approximately \$202,000 was payable to the TRF.

#### 2. Summary of Significant Accounting Policies

#### **Basis of Accounting**

The System maintains its accounting records using the accrual basis of accounting. It recognizes member contributions in the period in which the contributions are due. Further, the System recognizes employer and State contributions when due and the employer or State has made a formal commitment to provide the contributions. Also, it recognizes benefits when due and payable in accordance with the System's retirement and benefits programs.

#### Use of Estimates in the Preparation of Financial Statements

The preparation of the System's financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect certain financial statement amounts and disclosures. Actual results could differ from those estimates.

#### Cash and Cash Equivalents

Cash and cash equivalents include cash on deposit and highly liquid financial instruments with original maturities of 90 days or less. Significant cash equivalents held by the System include repurchase agreements and foreign currency.



#### Investments

The majority of the securities held in the investment portfolio at June 30, 2007, are in the custody of or controlled by State Street Bank, the System's master custodian. State statutes and Board policies allow investments consisting of government, corporate and international bonds, domestic and international equities, mutual funds, limited partnership holdings, real estate, mortgages, and other investments.

Investments are reported at fair value. The fair values of investments are generally based on published market prices and quotations from major investment firms. Mortgages are valued based on future principal and interest payments, and are discounted at prevailing interest rates for similar instruments. Short-term investments are reported at cost or amortized cost, which approximates fair value. Fair value for commingled funds (other than those funds traded on a national or international exchange) is derived from the market value of the underlying securities in the pool, as provided to the custodian, by the applicable fund managers. Real estate equity investment fair values are based on either recent estimates provided by the System's contract real estate advisors or independent appraisers. Alternative investments represent interests in private equity partnerships in which the System enters under a limited partnership agreement. For alternative investments and other investments where no readily ascertainable market value exists, management, in consultation with the general partner and investment advisors, has determined the fair values for the individual investments based on partnership's June 30, 2007 financial statements or the most recent financial information adjusted for eash flow activities through June 30, 2007.

The System presents, in the statement of changes in fiduciary net assets, the net appreciation in the fair value of its investments, which consists of the realized gains and losses and the unrealized appreciation and depreciation on those investments. Purchases and sales are recorded on the trade date. Real estate equity transactions are recorded on the settlement date. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date.

There are certain market risks, including interest, credit, foreign currency exchange and concentration risk, which may subject the System to economic changes occurring in certain industries, sectors, or geographies. See Note 4 for disclosures related to these risks.

#### **Investment Risk Management**

The STRP enters into forward foreign currency exchange contracts for hedging purposes to minimize the short-term impact of foreign currency fluctuations on the asset positions of its foreign investments. The STRP also enters into futures contracts to minimize exposure to unfavorable fluctuations in the domestic equity markets. The futures contracts are financial instruments that derive their value from underlying indices. These hedging contracts are reported at fair value based on published market prices and quotations from major investment firms. The STRP could be exposed to risk if the counter-parties to the contracts are unable to meet the terms of their contracts. The STRP seeks to minimize risk from counter-parties by establishing minimum credit quality standards and maximum credit limits.

#### **Administrative Expenses**

The cost of administering the STRP is financed through the contributions and investment earnings. The VIP and the THBF reimburse the TRF for administrative services provided on their behalf.

#### **Income Taxes**

The STRP, THBF, TRBPF and TRPDF are organized as tax-exempt retirement or benefit plans under the IRC. The VIP is organized as a tax-deferred supplemental program under the IRC. The System's management believes that it has operated these funds and programs within the constraints imposed by federal tax law.

## **Investment Expenses**

Expenses directly associated with investment management have been included as other investment expenses. Indirect expenses have not been allocated.

### **Securities Lending Transactions**

The System reports securities lent, the cash collateral held as assets, and the related liabilities resulting from securities lending transactions on the statement of fiduciary net assets. The System also reports the income earned and costs of lending securities as investment income and expenses on the statement of changes in fiduciary net assets.

#### Reclassification

Certain reclassifications have been made to the comparative totals as of and for the year ended June 30, 2006 to conform to the presentation as of June 30, 2007.

## Comparative Totals

The basic financial statements include certain prior-year summarized comparative information in total but not at the level of detail required for a presentation in conformity with generally accepted accounting principles. Accordingly, such information should be read in conjunction with the System's financial statements for the year ended June 30, 2006, from which the summarized information was derived.

### **New Accounting Pronouncements**

During fiscal year 2006-07, the System implemented the requirements of GASB Statement No. 43, Financial Reporting for Postemployment Benefit Plans Other than Pension Plans, into Note 3 of its financial statements. This new pronouncement provides uniform financial reporting standards for plans that provide postemployment benefits such as healthcare benefits. The statement requires the System to obtain actuarial valuations, and report in its financial statements the funded status and funding progress of the MPPP.

## 3. Funded status and funding progress of the MPPP

The MPPP is funded from that portion of the monthly DB Program statutory employer contributions that exceeds the amount needed to finance the liabilities of the DB Program based on the June 30, 2000 actuarial valuation of the DB Program. Contributions that would otherwise be credited to the TRF each month are redirected to the MPPP to fund monthly program and administrative costs. Total redirections to the MPPP are monitored to ensure that total costs do not exceed the amount initially identified as the cost of the program.

The MPPP had its first actuarial valuation performed as of June 30, 2006 as required by GASB Statement No. 43. Under the reporting parameters set by GASB Statement No. 43, the MPPP is .3% funded with an estimated actuarial accrued liability exceeding actuarial assets by \$793.8 million at June 30, 2006.

# California State Teachers' Retirement System

Notes to the Basic Financial Statements (continued)

However, taking into consideration the DB Program statutory employer contributions, that exceed the amount needed to finance the actuarial liability of the DB Program based on the June 30, 2000 actuarial valuation, and that are allocated to the MPPP, the MPPP actuarial obligation is less than the current value of the excess. The amount of the excess allocated to the MPPP from the June 30, 2000 actuarial valuation was \$1.257 billion and has a value of \$1.687 billion as of the June 30, 2006 actuarial valuation. For the purposes of GASB Statement No. 43 reporting requirements, the \$1.687 billion is not considered in the June 30, 2006 valuation because it is not held in a separate trust.

The funded status of the MPPP, under GASB Statement No. 43, as of June 30, 2006 is as follows (dollars in millions):

| Actuarial<br>Valuation<br>Date as of<br>June 30 | Actuarial<br>Value of<br>Assets<br>(a) | Actuarial<br>Accrued<br>Liability<br>(AAL)<br>(b) | Unfunded<br>(Funded)<br>AAL<br>(UAAL)<br>(b-a) | Funded<br>Ratio<br>(a/b) | Covered<br>Payroll<br>(c) | as a % of Covered Payroll ((b-a)/c) |
|-------------------------------------------------|----------------------------------------|---------------------------------------------------|------------------------------------------------|--------------------------|---------------------------|-------------------------------------|
| 2006                                            | \$3                                    | \$797                                             | \$794                                          | 0.3%                     | \$7,452                   | 10.70%                              |

Management believes the current source of MPPP funding will be adequate to provide for the statutory MPPP benefits.

Actuarial valuations involve estimates of the value of reported amounts and assumptions about the probability of events far into the future, and actuarially determined amounts are subject to continual revision as actual results are compared to past expectations and new estimates are made about the future. The required schedule of funding progress immediately following the notes to the financial statements present multi-year trend information about whether the actuarial value of plan assets is increasing or decreasing over time relative to the actuarial accrued liability for benefits. Calculations are based on the benefits provided under the terms of the plan in effect at the time of each valuation.

Actuarial calculations reflect a long-term perspective and the actuarial methods and assumptions used for valuing the MPPP in accordance with GASB Statement No. 43 reporting parameters include techniques that are consistent with the long-term perspective of the calculations. Additional information as of the latest actuarial valuation follows:

| Valuation date Actuarial cost method Amortization method Amortization period | June 30, 2006 Entry Age Normal Level Dollar Basis Closed |
|------------------------------------------------------------------------------|----------------------------------------------------------|
| Remaining amortization period<br>Asset valuation method                      | 30 Years<br>Fair Value                                   |
| Actuarial assumptions:                                                       |                                                          |
| Investment rate of return                                                    | 4.00%                                                    |
| Healthcare cost trend rate Part A premiums                                   | 5.00%                                                    |
| Healthcare cost trend rate Part B premiums                                   | 9.00% grading down to 6.00% in 2011                      |
| Consumer price inflation                                                     | 3.25%                                                    |
| Projected salary increases                                                   | 4.25%                                                    |

## 4. Deposits and Investments

Deposits in the Pooled Money Investment Account (PMIA), administered by the State, represent various investments with average days to maturity of approximately 176 days, and are reported at amortized cost which approximates fair value. The State Treasury pools these monies with the monies of other State agencies for investing.

The investment in the Short-term Investment Fund, administered by State Street Bank, represents various investments with average days to maturity of approximately 27 days, and is reported at amortized cost which approximates fair value.

The repurchase agreement transactions as of June 30, 2007, have underlying collateral with fair values of approximately 102% of the cost of the repurchase agreement. The agreed-upon yields were 4.50% with maturity dates through July 3, 2007.

In fiscal year 2002-03, the System initiated an investment program to leverage its real estate investments by borrowing against select real estate holdings (Leverage Program). Under the Leverage Program, a commercial mortgage-backed security (CMBS) for \$750 million was executed. The System used the proceeds from the CMBS to purchase various investments. At June 30, 2007, the CMBS obligation to the fair value of the underlying collateral of real estate properties was 27.6%.

Approximately \$260.8 million and \$231.0 million are due November 2007 and November 2009, respectively. Interest on the CMBS is based on various factors and is payable monthly. As of June 30, 2007, the annual interest rates ranged from 4.39% to 6.01%.

State statutes and board policies permit the System to make short-term, collateralized loans of its securities to broker-dealers and other entities in order to earn incremental income. The STRP has contracted with third party securities lending agents and its custodian to lend domestic and international equity and debt securities. The majority of security loans can be terminated on demand by either the STRP or the borrower. Collateral in the form of cash or other securities is required for 102% and 105% of the fair value of domestic and international securities loaned, respectively. Since the majority of these loans are terminable at will, their duration does not generally match the duration of the investments made with the cash collateral. At June 30, 2007, the weighted duration difference between the investments and these loans was 25 days. As of June 30, 2007, the System has no credit risk exposure to borrowers because the amounts the STRP owes the borrowers exceed the amounts the borrowers owe the STRP. The STRP is not permitted to pledge or sell collateral securities received unless the borrower defaults. The contracts with the security lending agents require them to indemnify the STRP if the borrowers fail to return the securities (or if the collateral is not sufficient to replace the securities lent) or if the borrower fails to pay the STRP for income distributions by the securities' issuers while the securities are on loan.

#### Credit Risk

Credit risk is the risk that an issuer or other counterparty to a debt instrument will not fulfill its obligations. This is measured by the assignment of ratings by nationally recognized statistical rating organizations.

The System's Investment Guidelines require that the lowest long-term credit rating of securities eligible for purchase by the internally managed fixed income assets be Baa3 by Moody's Investor Services or BBB- by Standard and Poor's Corporation (i.e., investment grade by at least one major rating agency).



# California State Teachers' Retirement System

Notes to the Basic Financial Statements (continued)

Furthermore, the total position of the outstanding debt of any one issuer shall be limited to ten-percent (10%) of the market value of the portfolio. The Investment Guidelines also include an allocation to high yield assets which are managed externally and allow for the purchase of bonds rated below investment grade. Limitations regarding the amount of debt of any one issuer a manager may hold is negotiated on a manager by manager basis.

Below is a table which depicts the fixed income and short-term assets as well as the securities lending collateral by credit rating as of June 30, 2007:

## Fixed Income & Short Term

(Dollars in Thousands)

| Ratings |    | Securitized<br>Obligations | 0  | Credit<br>Obligations | International<br>Government | N | loncy Market<br>Securities | PMIA          | U  | S. Government | Total            |
|---------|----|----------------------------|----|-----------------------|-----------------------------|---|----------------------------|---------------|----|---------------|------------------|
| AAA     | S  | 14,030,405                 | S  | 628,070               | \$<br>113,605               | S |                            | \$            | S  | 28,133        | \$<br>14,800,213 |
| A-1     |    | 47                         |    | •                     | -                           |   | 825,978                    |               |    | 5             | 825,978          |
| AA      |    | 102,013                    |    | 1,377,412             | 93,955                      |   |                            | 100           |    | 2,422         | 1,575.802        |
| A       |    | 96,661                     |    | 2.875,315             | 320,558                     |   | -                          | -             |    | -             | 3,292,534        |
| BBB     |    | 49,483                     |    | 2,779,064             | 74,090                      |   |                            | _             |    | 12            | 2,902,637        |
| BB      |    | 19,722                     |    | 666,662               | 13,275                      |   | -                          |               |    |               | 699,659          |
| В       |    | 12,013                     |    | 1,306,942             | 11,522                      |   |                            |               |    | 5             | 1,330,477        |
| CCC     |    | -                          |    | 580,115               |                             |   | -                          |               |    | ÷.            | 580,115          |
| D       |    | -                          |    | 19,079                | 3 <del>4</del>              |   | -                          | 0.73          |    | -             | 19,079           |
| NR      |    | 677,389                    |    | 1,485,268             | 42,260                      |   | 109,428                    | 267,209       |    | 80            | 2,581,634        |
| NA      |    | -                          |    | -                     | <br>\5                      |   | ¥                          | 75            |    | 8,511,584     | 8,511,584        |
| Total   | \$ | 14,987,686                 | \$ | 11,717,927            | \$<br>669,265               | S | 935,406                    | \$<br>267,209 | \$ | 8,542,219     | \$<br>37,119,712 |

Obligations of the U.S. government or obligations explicitly guaranteed by the U.S. government, are not considered to have credit risk and do not require disclosure of credit quality. NR represents those securities that are not rated and NA represents those securities that are not applicable to the rating disclosure requirements. Our external managers are permitted to purchase securities that are not rated; however a thorough credit review must be completed along with an estimation of comparable credit quality.

# Securities Lending Collateral

(Dillars in Thousands)

| Ratings |     | ncy Market<br>ecurities | 0.55 | epurchase<br>greements |    | ort Term<br>vestment<br>Fund |    | orporate<br>Bonds |    | Corporate<br>pating Rate<br>Notes | (  | Agency<br>Callable<br>Digations | gency Bullets<br>(Non-<br>Callables) | Asset<br>Backed<br>Securities | E  | ortgage<br>Backed<br>curities | Total        |
|---------|-----|-------------------------|------|------------------------|----|------------------------------|----|-------------------|----|-----------------------------------|----|---------------------------------|--------------------------------------|-------------------------------|----|-------------------------------|--------------|
| AAA     | S   | -                       | \$   | -                      | S  | -                            | S  | 74,924            | S  | 1,355,092                         | \$ | 373,498                         | \$<br>207,588                        | \$8,426,406                   | \$ | 45,000                        | \$10,482,508 |
| A-1     |     | 7,106,883               |      | 1,128,538              |    |                              |    |                   |    | -                                 |    | 3.5                             | -                                    | 33,816                        |    | 180                           | 8,269,237    |
| AA      |     | 1,215,184               |      | -                      |    | -                            |    | 99,949            |    | 4,047,634                         |    |                                 | -                                    |                               |    |                               | 5,362,767    |
| A       |     | 599,808                 |      | =                      |    |                              |    |                   |    | 5,127,711                         |    | 1.5                             |                                      | (6)                           |    | 4.7                           | 5,727,519    |
| BBB     |     |                         |      |                        |    |                              |    | -                 |    | 508,678                           |    | -                               |                                      | (2)                           |    | 3.53                          | 508,678      |
| NR      |     | 896,679                 |      | 525,426                |    | 159,416                      |    | -                 |    | 40,000                            |    |                                 |                                      | 21,378                        |    | 257                           | 1,642,899    |
| Total   | .\$ | 9,818,554               | \$   | 1,653.964              | \$ | 159,416                      | \$ | 174,873           | \$ | 11.079,115                        | \$ | 373,498                         | \$<br>207,588                        | \$8,481,600                   | S  | 45,000                        | \$31,993,608 |

The above amount exchales each and accrueds in the total of a positive \$73,006 (in thousands) which is included in the Securities Lending Collatered line term in the Statement of Fiducius; Net Assets

#### Interest Rate Risk

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment.

The Investment Guidelines allow the internally managed long-term investment grade portfolios the discretion to deviate within +/-.50 years from the effective duration of the relevant Lehman Brothers benchmark. The permissible range of deviation for the effective duration within the high yield portfolios is negotiated with each of the high yield managers and detailed within the Investment Guidelines.

Investments may contain terms that increase the sensitivity of their fair values to increasing and decreasing interest rates. Although the System has investments which have an inherent prepayment risk as well as caps, floors, and step-up features, these are mitigated through the diversification of asset classes, security selection, maturity, and credit quality. A change to the Lehman US Aggregate Index as of April 1, 2007 included Hybrid Adjustable Rate Mortgage (ARM) Backed Securities wrapped by Government Sponsored Entities (GSE). These Agency Hybrid ARMs may be fully amortizing or interest only for a period of time and then subsequently amortize. As of June 30, 2007 the System held \$1.2 billion of Agency Hybrid ARMs of which \$439 million or 1.2% of the long term fixed income investments were interest only Agency Hybrid ARMs.

Below is a table which depicts the duration of the portfolio vs. the benchmark in years on June 30, 2007:

# Long Term Fixed Income Investments

#### Duration

(Dollars in Thousands)

| Investment Type (by portfolio)                | Asset Value   | Effective<br>Duration | Benchmark<br>Duration | Difference |
|-----------------------------------------------|---------------|-----------------------|-----------------------|------------|
| US Government and Agency Obligations          | \$ 6,985,280  | 4.44                  | 4.41                  | 0.03       |
| Credit Obligations                            |               |                       |                       |            |
| Corporate                                     | 7,362,539     | 5.89                  | 5.92                  | -0.03      |
| High Yield                                    | 2,439,546     | 3.76                  | 4.47                  | -0.71      |
| Debt Core Plus                                | 5,289,592     | 4.81                  | 4.67                  | 0.14       |
| Securitized Obligation                        |               |                       |                       |            |
| Asset Backed Securities                       | 621,379       | 2.76                  | 2.60                  | 0.16       |
| Commercial Mortgage Backed Securities         | 1,651,684     | 4.80                  | 4.74                  | 0.06       |
| Mortgage Backed Securities                    | 10,904,463    | 4.17                  | 4.15                  | 0.02       |
| Total Market Value with Weighted Avg Duration | \$ 35,254,483 | 4.65                  | 4.67                  | -0.02      |

The above table represents the net asset value of the long term fixed income portfolios, which include cash and accruals that are not included in the investments line item of the statement of fiduciary net assets.

Below is a table depicting the segmented time distribution for the types of short term fixed income investments based upon the expected maturity, 1<sup>st</sup> call date and/or 1<sup>st</sup> reset date, as of June 30, 2007:

#### Short Term Fixed Income Investments

#### Segmented Time Distribution

(Dollars in Thousands)

| Investment Type               | 0-30<br>days | 31-90<br>days | 91-120<br>days | 121-180<br>days | 181-365<br>days | 365+<br>days      | Totals      |
|-------------------------------|--------------|---------------|----------------|-----------------|-----------------|-------------------|-------------|
| Money Market Securities       | \$ 615,022   | \$242,909     | \$ 79,608      | \$ -            | \$ -            | \$ -              | \$ 937,539  |
| PMIA                          | 267,209      |               |                | ·               |                 |                   | 267,209     |
| Credit Obligations            |              |               |                |                 |                 |                   |             |
| Corporate Bonds               | 17           | 15,000        | 14,997         | 754             | -               | 1 <del>.2</del> 8 | 29,997      |
| Corporate Floating Rate Notes | 101,601      | 179,545       | 17,000         | -               | 25,000          | 1=1               | 323,146     |
| US Government and Agency Obl  | igations     |               |                |                 |                 |                   |             |
| Bullets (Non-Callables)       | 40,000       | 10,000        | (#4)           | S#8             | 250             | S=8               | 50,000      |
| Discounted Notes              | 24.957       | 124,138       | 49.254         | 24,571          | 62,704          | H-1               | 285,624     |
| Callable                      | 49,235       | 166,652       | 10,000         | 13,984          | 53              | 55                | 239.871     |
| US Treasury                   | -            | 24,712        | 49.244         | 98,285          | 48,804          | 4.976             | 226.021     |
| Asset Backed Securities       | 22,832       | 26,444        | 120            | -               |                 | 120               | 49.276      |
| Totals                        | \$1,120,856  | \$789,400     | \$220.103      | \$136,840       | \$ 136,508      | \$ 4,976          | \$2,408.683 |
| Weightings                    | 46.53%       | 32.77%        | 9.14%          | 5.68%           | 5.67%           | 0.21%             | 100.0%      |

The Investment Objective for the Short-Term Fixed Income Portfolio is to seek the preservation of capital and liquidity. The Investment Guidelines state that 50% of the portfolio shall reflect an expected maturity, 1<sup>st</sup> call date or 1<sup>st</sup> reset date to be within a 0-30 day range and/or in US Government and Agency Obligations. In addition to short-term securities, the short term fixed income portfolios also contain debt securities as classified in the investments section of the statement of fiduciary net assets.

Securities Lending Cash Collateral assets are diversified among different asset classes with the maximum remaining effective maturity of any instrument being five years. The fund must remain liquid to meet collateral returns.

Below is a table depicting the segmented time distribution based upon the expected maturity, 1<sup>st</sup> call date and/or 1<sup>st</sup> reset date, as of June 30, 2007:

#### Securities Lending Collateral Segmented Time Distribution

(Dollars in Thousands)

| Investment Type               | 4  | 0-1 day |    | 2-6 days  |    | 7-29 days                              | 3  | 30-59 days              | í  | 0-89 days         |      | 90+ days  | TOTALS           |
|-------------------------------|----|---------|----|-----------|----|----------------------------------------|----|-------------------------|----|-------------------|------|-----------|------------------|
| Money Market Securities       | \$ | -       | \$ | 1,062.799 | \$ | 3,263,559                              | \$ | 1,203,816               | 5  | 978,559           | 8    | 3,309,821 | \$<br>9.818.554  |
| Repurchase Agreements         |    | 46,426  |    | 1,607,538 |    | ************************************** |    | E CONTRACTOR CONTRACTOR |    | 120               |      | 121       | 1,653,964        |
| Short Term Investment Fund    |    | 159,416 |    | (-)       |    | -                                      |    | ·                       |    | 787               |      | 3#0       | 159,416          |
| Corporate Bonds               |    | (i=)    |    | (*)       |    |                                        |    | ·                       |    | 1 <del>=</del> 11 |      | 174.873   | 174,873          |
| Corporate Floating Rate Notes |    | (i)=)   |    | 2,734,346 |    | 1,928.675                              |    | 2,917,220               |    | 2,891,879         |      | 606,995   | 11,079,115       |
| Agency Callable Obligators    |    | (i=)    |    | 25,000    |    | 116,993                                |    | 92,996                  |    | 118,526           |      | 19,983    | 373,498          |
| Bullets (Non-Callables)       |    | 5 m     |    | 2,589     |    | 10.000                                 |    | 45,000                  |    | 50,000            |      | 99,999    | 207,588          |
| Asset Backed Securities       |    |         |    | 46,442    |    | 5,229,182                              |    | 1,248,477               |    | 1,725,138         |      | 232,361   | 8,481,600        |
| Mortgage Backed Securities    |    |         |    | ) He      |    | 45.000                                 |    |                         |    |                   |      |           | 45,000           |
| TOTALS                        | S  | 205,842 | S  | 5.478,714 | \$ | 10,593,409                             | S  | 5,507,509               | \$ | 5,764.102         | \$   | 4.444,032 | \$<br>31,993,608 |
| Weightings                    |    | 0.64%   | 3  | 17.12%    | 3  | 33.11%                                 |    | 17.21%                  |    | 18.02%            | 2000 | 13.89%    | 100.00%          |

The above amount excludes cash and accruals in the total of \$73,006 (in thousands) which is included in the Securities Lending Collateral line item in the Statement of Fiduciury Net Assets.

#### Concentration of Credit Risk

Concentration of credit risk is the risk of loss attributed to the magnitude of a government's investment in a single issuer. As of June 30, 2007, the System has no single issuer that exceeds 5% of total investments. Investments issued or explicitly guaranteed by the U.S. government and investments in mutual funds, external investment pools, and other pooled investments are excluded. The System's Investment Policy states that no more than 3% of the total fund shall be invested or exposed to any one security or corporation, with the exception of United States Treasury or Agency Obligations.

#### Custodial Credit Risk

Custodial credit risk is the risk that in the event a financial institution or counterparty fails, the System would not be able to recover the value of its deposits, investments, or collateral securities. As of June 30, 2007, all of the System's investments are held in the System's name and are not exposed to custodial credit risk. There are no general policies relating to the custodial credit risk.

### Foreign Currency Risk

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment or a deposit. The System's foreign currencies and investments at June 30, 2007, as shown in the table below, were distributed among the following:

## Foreign Currency Risk

(Dollars in Thousands) (In U.S. Dollar Equivalents)

| Currency Name      | Cash          | <br>Equity       | <br>Debt        | Pending Foreign<br>Currency Exchanges                                                                                    | Tota<br>Exposur |
|--------------------|---------------|------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------|-----------------|
| Australian Dollar  | \$<br>5,387   | \$<br>1,596,114  | \$<br>25,805    | \$ (174,691)                                                                                                             | \$ 1,452,615    |
| Brazilian Real     | 2,380         | 438,449          | 25,543          | (14,107)                                                                                                                 | 452,265         |
| Canadian Dollar    | 13,763        | 1,390,714        | 884             | (85,247)                                                                                                                 | 1,320,114       |
| Chilean Peso       | 64            | 12,805           | -               | =                                                                                                                        | 12,869          |
| Colombian Peso     | 65            | c <del>=</del> 1 | 867             | -                                                                                                                        | 867             |
| Czech Koruna       | 433           | 13,443           |                 | (428)                                                                                                                    | 13,448          |
| Danish Krone       | 2,489         | 221,671          |                 |                                                                                                                          | 224,160         |
| Egyptian Pound     | 293           | 82,160           | #20]<br>#30]    | ₩<br><del>5</del>                                                                                                        | 82,453          |
| Euro Dollar        | 85,316        | 12.725,341       | 58,727          | (961,676)                                                                                                                | 11,907,708      |
| Hong Kong Dollar   | 3,485         | 1,320,244        | *               | (8,192)                                                                                                                  | 1,315,537       |
| Hungarian Forint   | 22            | 74,272           | ( <u></u> )     | (12,805)                                                                                                                 | 61,489          |
| Indian Rupee       | 2,186         | 279,279          | -               |                                                                                                                          | 281,465         |
| Indonesian Rupiah  | 804           | 92,540           | -               | ¥                                                                                                                        | 93,344          |
| Israeli Shekel     | 217           | 85,005           | 1               | •                                                                                                                        | 85.223          |
| Japanese Yen       | 41,294        | 5,415.746        | (*)             | (41,317)                                                                                                                 | 5,415,723       |
| Malaysian Ringgit  | 24            | 146,549          | :=:             | तान के किया के<br>जिल्ली | 146,573         |
| Mexican Peso       | 6             | 211,369          | 1.00 (m)        | (67,730)                                                                                                                 | 143,645         |
| New Russian Ruble  |               | <del>-</del>     |                 | (25,491)                                                                                                                 | (25,49.         |
| New Taiwan Dollar  | 982           | 760,186          | 3               |                                                                                                                          | 761,168         |
| New Turkish Lira   | 7             | 164,641          | 2,536           | (6,133)                                                                                                                  | 161,05          |
| New Zealand Dollar | 100           | 50,285           | 35,747          | (22,330)                                                                                                                 | 63,802          |
| Norwegian Krone    | 3,525         | 438,556          | 14              | (40,788)                                                                                                                 | 401,293         |
| Philippine Peso    | 581           | 7,888            | =               | ( <b>a</b> ))                                                                                                            | 8,469           |
| Polish Zloty       | 21            | 42,996           | =               | (80,832)                                                                                                                 | (37,815         |
| Pound Sterling     | 35,529        | 6,133,684        | 70,101          | (479,744)                                                                                                                | 5,759,570       |
| Singapore Dollar   | 2,036         | 346,617          |                 | (121)                                                                                                                    | 348,532         |
| South African Rand | 2,600         | 491,843          | 8=              | =                                                                                                                        | 494,443         |
| South Korean Won   | 790           | 923,452          | 1 <del>4.</del> | <b>.</b>                                                                                                                 | 924,242         |
| Swedish Krona      | 11,101        | 641,194          |                 | (711)                                                                                                                    | 651,584         |
| Swiss Franc        | 7,498         | 1,905,909        | 1 <del>.</del>  | (39,261)                                                                                                                 | 1,874,146       |
| Thailand Baht      | <br>1,829     | <br>113.084      | 3               |                                                                                                                          | 114,91          |
| Total              | \$<br>224,762 | \$<br>36,126,036 | \$<br>220,211   | \$ (2,061,604)                                                                                                           | \$ 34,509,405   |

This table represents securities purchased in a foreign currency. The investment figures are comprised of numerous portfolios within the international equity, debt securities, alternative, and real estate investment line items on the statement of fiduciary net assets.

Foreign currency is comprised of international investment proceeds and income to be repatriated into U.S. dollars and funds available to purchase international securities. Foreign currency is not held as a form of investment. Foreign currency is held temporarily in foreign accounts until it is able to be repatriated or expended.

In accordance with the Investment Policy and Management Plan, the System has established a strategic allocation to non-dollar public and private equity assets (i.e. alternative investments and real estate). Considering this commitment to non-dollar assets and the impact currency fluctuations can have on the total return of dollar-based investors, the System has recognized the need to implement strategies designed to address the management of currency risk. The System believes that its Currency Management Program should emphasize the protection of the value of its non-dollar public and private equity assets against a strengthening U.S. dollar first, yet recognizes that there also exists opportunities for alpha generation (the ability to derive a return in excess of a market return) within the currency markets. The System's fixed income staff has management responsibilities for the Currency Management Program. The hedging range has been designed to allow for some degree of symmetry around the unhedged program benchmark in order to enable the Currency Management Program to both protect the translation value of the assets against a strengthening U.S. dollar and to enhance returns in a declining U.S. dollar environment. As a result, the hedging range is -25% to 50% of the total market value of the non-dollar public and private equity portfolios.

### 5. Contingencies

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

#### 6. Commitments

In connection with the purchase of various partnership interests under the alternative investment portfolio and the real estate portfolio, the STRP has remaining unfunded commitments of approximately \$13.9 billion and \$12.4 billion, respectively, at June 30, 2007.

The STRP has entered into agreements through its Credit Enhancement Program to guarantee payment of principal and interest on certain debt securities in the event of default. At June 30, 2007, the STRP had commitments of approximately \$2.3 billion expiring through April 2013. The STRP is paid a fee over the term of such agreements and earned approximately \$5 million for the year ended June 30, 2007.

## 7. Subsequent Events

In fiscal year ended June 30, 2004, special legislation reduced the State's contribution to the Supplemental Benefit Maintenance Account by \$500 million. Subsequently, the System took legal action to compel the State to contribute the remaining \$500 million. On August 30, 2007, the Third District Court of Appeal in Sacramento issued a decision requiring the State to pay the System \$500 million plus interest for the withheld contribution from fiscal year 2003-04. On September 6, 2007, the State paid the System \$500 million for the withheld contributions. Discussion is ongoing in regards to the payment of interest on the withheld contributions.

#### 8. New Accounting Pronouncements

GASB Statement No. 50, Pension Disclosures – an amendment of GASB Statements No. 25 and No. 27, more closely aligns the financial reporting requirements for pensions with those for other postemployment benefits and, in doing so, enhances information disclosed in notes to financial statements or presented as required supplementary information by pension plans and by employers that provide pension benefits.

The requirements of this statement will be implemented in the financial statements for fiscal year 2007-08.

GASB Statement No. 51, Accounting and Financial Reporting for Intangible Assets, provides guidance regarding how to identify, account for, and report intangible assets. The new standard characterizes an intangible asset as an asset that lacks physical substance, is non-financial in nature, and has an initial useful life extending beyond a single reporting period. The statement will require that intangible assets be classified as capital assets (except for those explicitly excluded from the scope of the new standard, such as capital leases) and that relevant authoritative guidance for capital assets should be applied to these intangible assets. This statement also established a specified-conditions approach to recognizing intangible assets that are internally generated. The requirements of this statement will be implemented in the financial statements for fiscal year 2009-10.

Required Supplementary Information—Unaudited

# California State Teachers' Retirement System Schedule of Funding Progress (Dollars in Millions)

Schedule !

The information presented in Supplementary Schedules I and II was determined as part of the actuarial valuations at June 30, 2006 except where noted. For the year ended June 30, 2002, the DBS Program was funded by member contributions only.

| Actuarial<br>Valuation<br>Date as of<br>June 30                            | Actuarial<br>Value of<br>Assets <sup>(7)</sup><br>(a) | Actuarial<br>Accrued<br>Liability<br>(AAL)<br>(b)        | Unfunded<br>(Funded)<br>AAL<br>(UAAL)<br>(b-a)       | Funded<br>Ratio<br>(a/b)                       | Covered<br>Payroll<br>(c)                                    | UAAL<br>as a % of<br>Covered<br>Payroll<br>((b-a)/c) |
|----------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------|
| State Teachers' F                                                          | Retirement Plan                                       | n                                                        |                                                      |                                                |                                                              |                                                      |
| Defined Benefit P                                                          | rogram                                                |                                                          |                                                      |                                                |                                                              |                                                      |
| 2007<br>2006<br>2005<br>2004 <sup>(2)</sup><br>2003 <sup>(3)</sup><br>2002 | (1)<br>\$131,237<br>121,882<br>114,094<br>108,667     | (1)<br>\$150,872<br>142,193<br>134,677<br>128,104<br>(2) | (1)<br>\$19,635<br>20,311<br>20,583<br>19,437<br>(2) | (1)<br>87 %<br>86 %<br>85 %<br>85 %            | \$24,240<br>23,257<br>22,591<br>22,649                       | (1)<br>81 %<br>87 %<br>91 %<br>86 %                  |
| Cash Balance Ben                                                           | efit Program                                          |                                                          |                                                      |                                                |                                                              |                                                      |
| 2007<br>2006<br>2005<br>2004<br>2003<br>2002                               | \$ 69<br>54<br>42<br>30<br>22                         | \$63<br>52<br>42<br>34<br>25                             | \$(6)<br>(2)<br>0<br>4<br>3                          | (1)<br>109 %<br>104 %<br>100 %<br>88 %<br>88 % | \$122<br>107<br>96<br>81<br>90                               | (1)<br>(5) %<br>(2) %<br>0 %<br>5 %<br>3 %           |
| Defined Benefit S                                                          | upplement Prog                                        | gram                                                     |                                                      |                                                |                                                              |                                                      |
| 2007<br>2006<br>2005<br>2004<br>2003<br>2002                               | \$ 3,951<br>3,023<br>2,204<br>1,311<br>660            | (1)<br>S 3,616<br>2,756<br>2,035<br>1,358<br>711         | \$(335)<br>(267)<br>(169)<br>47<br>51                | (1)<br>109 %<br>110 %<br>108 %<br>97 %<br>93 % | (1) (4)<br>\$ 24,239<br>23,263<br>23,763<br>23,865<br>21,732 | (1.38) %<br>(1.15) %<br>(0.71) %<br>0.20 %<br>0.20 % |
| Teachers' Health                                                           | Benefits Fund                                         | ĺ                                                        |                                                      |                                                |                                                              |                                                      |
| Medicare Premiur                                                           | n Payment Pros                                        | gram (5) (6)                                             |                                                      |                                                |                                                              |                                                      |
| 2007<br>2006                                                               | \$ 3                                                  | (1)<br>\$ 797                                            | \$ 794                                               | 0.3 %                                          | \$ 7,452                                                     | (1)<br>10.70 %                                       |

- (1) Actuarial valuations as of June 30, 2007, are expected to be available by summer of 2008.
- (2) Except for the year ended June 30, 2004 and June 30, 2006 actuarial valuations were not prepared in even numbered years. No estimation using actuarial methodology is made in years between valuations.
- (3) Actuarial accrued liability and covered payroll figures for 2003 and 2004 were revised on an estimated basis in 2006 to reflect data corrections.
- (4) Starting with the June 30, 2005 valuation, covered payroll excludes limited term incentive pay and extra service credit pay in order to present the payroll base most relevant to the funding of any unfunded actuarial accrued liabilities of the DBS Program. Covered payrolls for 2003 and 2004 include these additional pay items.

# California State Teachers' Retirement System Schedule of Funding Progress

(Dollars in Millions)

Schedule I (Continued)

- (5) Effective January 1, 2001, the Medicare Premium Payment Program (MPPP) was established. June 30, 2006 was the first year an actuarial valuation of the MPPP was performed using assumptions in accordance with GASB Statement No. 43. A study of the MPPP was performed as of June 30, 2005 for comparison purposes. The MPPP is funded from that portion of the monthly DB Program statutory employer contributions that exceeds the amount needed to finance the liabilities of the DB Program based on the June 30, 2000 actuarial valuation of the DB Program. The System allocated \$1,257 billion of the excess, which has a current value of \$1.687 billion, identified in the June 30, 2000 valuation as reserved within the TRF for the MPPP. Contributions that would otherwise be credited to the 'TRF each month are redirected to the MPPP to fund monthly program and administrative costs. In undertaking the valuation of the DB Program, the resources available to fund the DB Program benefits are reduced by the unspent portion of the current value of the original \$1.257 billion. Total redirections to the MPPP are monitored to ensure that total costs do not exceed the amount initially identified as the cost of the program. GASB Statement No. 43 reporting parameters limit those assets used in the actuarial valuation only to those assets held within the THBF. The Systems' actuaries determined that, at June 30, 2006, the MPPP's actuarial obligation is less than the \$1.687 billion current value of the original excess that was identified in the June 30, 2000 valuation. Figures shown include MPPP program benefits for members retiring through June 30, 2007.
- (6) At the April 5, 2007 meeting of the Board, the MPPP was extended to members who retire or will retire before July 2012. Extending the MPPP to members who retire or will retire before July 1, 2012, will result in an increase in the costs for the MPPP of between \$85 million and \$150.6 million. The increase in cost is an estimate and the extension of benefits will be included as part of the actuarial accrued liability in the next actuarial valuation.
- (7) The DB Program actuarial value of assets excludes \$1.687 billion in assets allocated to the MPPP. Exclusions from prior actuarial valuations is as follows:

June 30, 2005 actuarial valuation. \$1.518 billion assets excluded June 30, 2004 actuarial valuation, \$1.393 billion assets excluded June 30, 2003 actuarial valuation, \$1.218 billion assets excluded

Note: The benefits under the Purchasing Power Protection Program are not guaranteed by law; only the contributions for this are guaranteed. An actuarial valuation has not been completed for the Purchasing Power Protection Program. Contribution and funding under this program are not made on an actuarial basis and items required under this schedule have not been determined. Therefore a schedule of funding progress for the Purchasing Power Protection Program is not presented.

# California State Teachers' Retirement System Schedule of Contributions from Employers And Other Contributing Entities (Dollars in Millions)

Schedule II

| Year<br>Ended<br>June 30 | Annual<br>Required<br>Contributions<br>(a) | Contributed By Employers <sup>(1)</sup> (b) | Contributed By the State/Federal (2)(4) (c) | Total Contributed (b) + (c) | Percentage<br>Contributed<br>(b + c)/a) |
|--------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------------|-----------------------------|-----------------------------------------|
| State Took               | (a)<br>hers' Retirement P                  |                                             | (6)                                         | (b) + ( c )                 | (b + c)/a)                              |
|                          |                                            | 1311                                        |                                             |                             |                                         |
|                          | mefit Program (3)(6)                       |                                             |                                             |                             |                                         |
| 2007                     | \$ 3,980                                   | \$ 2,168                                    | \$ 481                                      | \$ 2,649                    | 67%                                     |
| 2006                     | 3,821                                      | 2,092                                       | 348                                         | 2,440                       | 64%                                     |
| 2005                     | 3,709                                      | 2,002                                       | 595                                         | 2.597                       | 70%                                     |
| 2004                     | 3,410                                      | 1,916                                       | 451                                         | 2,367                       | 69%                                     |
| 2003                     | 2,545                                      | 1,890                                       | 431                                         | 2,321                       | 91%                                     |
| 2002                     | 2,498                                      | 1,851                                       | 385                                         | 2,236                       | 90%                                     |
|                          |                                            | 1920                                        |                                             |                             |                                         |
| Cash Balan               | ce Benefit Program                         | (3)                                         |                                             |                             |                                         |
| 2007                     | \$ 5.61                                    | \$ 5.93                                     | \$ 0                                        | \$ 5.93                     | 106%                                    |
| 2006                     | 4.99                                       | 5.10                                        | 0                                           | 5.10                        | 102%                                    |
| 2005                     | 4.48                                       | 4.49                                        | 0                                           | 4.49                        | 100%                                    |
| 2004                     | 4.05                                       | 3.85                                        | 0                                           | 3.85                        | 95%                                     |
| 2003                     | 3.58                                       | 3.58                                        | 0                                           | 3.58                        | 100%                                    |
| 2002                     | 3.58                                       | 3.58                                        | 0                                           | 3.58                        | 100%                                    |
|                          |                                            | EWO.                                        |                                             |                             |                                         |
|                          | enefit Supplement Pr                       |                                             |                                             | <b>(#</b>                   |                                         |
| 2007                     | \$ 93                                      | \$ 111                                      | \$ 0                                        | \$ 111                      | 119%                                    |
| 2006                     | 90                                         | 104                                         | 0                                           | 104                         | 116%                                    |
| 2005                     | 86                                         | 96                                          | 0                                           | 96                          | 111%                                    |
| 2004                     | 128                                        | 125                                         | 0                                           | 125                         | 98%                                     |
| 2003                     | 72                                         | 72                                          | 0                                           | 72                          | 100%                                    |
|                          |                                            | 2442                                        |                                             |                             |                                         |
|                          | Power Protection P                         |                                             |                                             |                             |                                         |
| 2007                     | \$ 604                                     | \$ 1                                        | \$ 603                                      | \$ 604                      | 100%                                    |
| 2006                     | 673                                        | 3                                           | 670                                         | 673                         | 100%                                    |
| 2005                     | 626                                        | 2                                           | 624                                         | 626                         | 100%                                    |
| 2004                     | 601                                        | 3                                           | 98                                          | 101                         | 1 <b>7%</b>                             |
| Teachers'                | Health Benefits Fu                         | ınd                                         |                                             |                             |                                         |
| Medicare P               | Premium Payment P                          | rogram <sup>(7)</sup>                       |                                             |                             |                                         |
| 2007                     | \$47                                       | \$32                                        | \$0                                         | \$32                        | 68%                                     |
| 2006                     | 47                                         | 30                                          | 0                                           | 30                          | 63%                                     |

For the DB Program, amounts include employer contributions under Education Code Sections 22135, 22714 (less amounts deposited in the SBMA), 22718, 22950 and 22951.

<sup>(4)</sup> The amount included in the "Contributed by the State/Federal" column includes federal proceeds from School Lands Income and the sale of the Elk Hills Petroleum Reserve. Certain reclassifications of our previous presentations of the Purchasing Power Protection Program for fiscal year 2003-04 were made to be consistent with later years' presentations.



<sup>(2)</sup> The DB and Purchasing Power Protection Programs include State contributions under Education Code Section 22954 and 22955.

<sup>(3)</sup> For the determination of the Annual Required Contribution, an open amortization period of 30 years on a level percentage of payroll basis is used for the Unfunded Actuarial Accrued Liability.

# California State Teachers' Retirement System Schedule of Contributions from Employers **And Other Contributing Entities**

(Dollars in Millions)

Schedule II (Continued)

- (5) An ARC has not been determined for the Purchasing Power Protection Program. The amount given is the contractual amount for all
- (6) The ARC's for 2005 and 2004 were revised on an estimated basis to reflect data corrections.
- (7) Fiscal year ending June 30, 2006 was the first year that an ARC was determined for the MPPP.

# California State Teachers' Retirement System Schedule of Contributions from Employers And Other Contributing Entities (Dollars in Millions)

Schedule II (Continued)

Additional information as of the June 30, 2006 actuarial valuations are as follows:

|                                                                                                                                                                                                                                          | DB Program                                                                                                                          | CB Benefit Program                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Actuarial Cost Method<br>Amortization Method<br>Amortization Period<br>Remaining Amortization Period<br>Asset Valuation Method                                                                                                           | Entry age normal<br>Level percent of payroll<br>Open<br>Not amortizable<br>Expected value with 33%<br>adjustment to market<br>value | Traditional unit credit<br>Not applicable<br>Not applicable<br>Not applicable<br>Fair market value of<br>net assets |
| Actuarial Assumptions: Investment rate of return Interest on accounts Projected salary increases Consumer price inflation Post-retirement benefit increases                                                                              | 8.00%<br>6.00%<br>4.25%<br>3.25%<br>2.00% simple                                                                                    | 8.00%<br>8.00%<br>4.25%<br>3.25%<br>Not applicable                                                                  |
|                                                                                                                                                                                                                                          | DBS Program                                                                                                                         | Medicare Premium<br>Payment Program                                                                                 |
| Actuarial Cost Method<br>Amortization Method<br>Amortization Period<br>Remaining Amortization Period<br>Asset Valuation Method                                                                                                           | Traditional unit credit Not applicable Not applicable Not applicable Fair market value of net assets                                | Entry Age Normal<br>Level dollar basis<br>Closed<br>30 years<br>Fair market value of<br>net assets                  |
| Actuarial Assumptions: Investment rate of return Interest on accounts Projected salary increases Consumer price inflation Post-retirement benefit increases Healthcare cost trend rate Part A premiums Healthcare cost trend rate Part B | 8.00%<br>8.00%<br>4.25%<br>3.25%<br>Not applicable<br>Not applicable                                                                | 4.00% Not applicable 4.25% 3.25% Not applicable 5.00%                                                               |
| premiums                                                                                                                                                                                                                                 | Not applicable                                                                                                                      | 9.00% grading down to 6.00% in 2011                                                                                 |

Other Supplemental Information

# California State Teachers' Retirement System State Teachers' Retirement Plan

**Schedule of Administrative Expenses** 

| lars in Thousands)                     |                  | Schedule |
|----------------------------------------|------------------|----------|
| Personnel services:                    |                  |          |
| Salaries and wages                     | \$ 42,533        |          |
| Staff benefits                         | 14,316           |          |
| Accrued vacation                       | 661              |          |
| Accrued personal leave expense         | (79)             |          |
| Total personnel services               | 57,431           |          |
| Operating expenses and equipment:      |                  |          |
| General expense                        | 4,063            |          |
| Depreciation expense                   | 538              |          |
| Printing                               | 1,503            |          |
| Communications                         | 938              |          |
| Postage                                | 1,192            |          |
| Insurance                              | 45               |          |
| Travel                                 | 1,169            |          |
| Training                               | 920              |          |
| Facilities operations                  | 5,875            |          |
| Consultants and professional services  | 20,872           |          |
| Consolidated data center:              |                  |          |
| Consultants and professional services  | 5,254            |          |
| Data Processing:                       |                  |          |
| Consultants and professional services  | 214              |          |
| Software and other                     | 1,613            |          |
| Indirect State central services        | 3,856            |          |
| Equipment                              | 328              |          |
| Other                                  | 84               |          |
| Total operating expenses and equipment | 48,464           |          |
| Total                                  | <u>\$105.895</u> |          |

# California State Teachers' Retirement System State Teachers' Retirement Plan

Schedule of Investment Expenses from Continuous Appropriation

(Dollars in Thousands) Schedule IV

| External Equity Managers:                          |                  |        |
|----------------------------------------------------|------------------|--------|
| Domestic:                                          |                  |        |
| Ariel Capital Management                           | \$               | 1,008  |
| Barclays Global Investors                          |                  | 2,122  |
| Batterymarch Financial Management, Inc.            |                  | 200    |
| Brown Capital Management, Inc.                     |                  | 436    |
| Chicago Equity Partners                            |                  | 2,923  |
| Delaware Investment Advisors                       |                  | 190    |
| Delphi Management, Inc.                            |                  | 1,981  |
| Denver Investment Advisor, LLC                     |                  | 967    |
| DSI International Management, Inc.                 |                  | 525    |
| First Quadrant                                     |                  | 5,037  |
| FIS Funds Management, Inc.                         |                  | 1,829  |
| Frank Russell Trust Co.                            |                  | 1,806  |
| Mellon Capital Management Corp.                    |                  | 1,354  |
| NCM Capital Management Group, Inc.                 |                  | 822    |
| Northern Trust Global Advisors, Inc.               |                  | 1,524  |
| Sasco Capital, Inc.                                |                  | 8,045  |
| State Street Global Advisors                       |                  | 1,782  |
| Sterling Capital Management, LLC                   |                  | 165    |
| TCW Asset Management                               |                  | 684    |
| UBS Global Asset Management                        |                  | 697    |
| Total Domestic:                                    |                  | 34,097 |
| International:                                     |                  |        |
| Baillie Gifford Overseas Ltd.                      |                  | 4,041  |
| Bank of Ireland                                    |                  | 3,082  |
| Barclays Global Investors                          |                  | 956    |
| Batterymarch Financial Management, Inc.            |                  | 2,218  |
| Blackrock International Ltd.                       |                  | 1.187  |
| Capital Guardian Trust                             |                  | 5,197  |
| Fidelity Management Trust Co.                      |                  | 2,337  |
| Fiduciary Trust International                      |                  | 3,092  |
| Goldman Sachs                                      |                  | 2,426  |
| Lazard Asset Management, LLC                       |                  | 9,054  |
| Mondrian Investment Partners                       |                  | 4,230  |
| Morgan Stanley                                     |                  | 2,346  |
| Nicholas Applegate Capital Management              |                  | 2,546  |
| Oechsle International Advisors, LLC                |                  | 4,348  |
| Schroder Management Investment North America, Inc. |                  | 1,493  |
| State Street Global Advisors                       |                  | 2,007  |
| T. Rowe Price International, Inc.                  |                  | 4,212  |
| Templeton Asset Management                         |                  | 4,266  |
| UBS Global Asset Management                        | 2 2000           | 2,053  |
| Total International:                               | (MINERAL (1964)) | 61,091 |
| Total External Equity Managers:                    |                  | 95,188 |

# California State Teachers' Retirement System State Teachers' Retirement Plan Schedule of Investment Expenses from Continuous Appropriat

Schedule of Investment Expenses from Continuous Appropriation (Dollars in Thousands)

Schedule IV (Continued)

| External Fixed Income Managers:       |        |
|---------------------------------------|--------|
| Aberdeen Asset Management             | \$ 389 |
| Julius Baer Investment Management     | 510    |
| LM Capital Group, LLC                 | 109    |
| Post Advisory Group, LLC              | 1,721  |
| Seix Investment Advisors              | 1,298  |
| Shenkman Capital Management, Inc.     | 1,433  |
| Western Asset Management Co.          | 626    |
| Total External Fixed Income Managers: | 6,086  |
| Real Estate Managers/Advisors:        |        |
| Blackrock Realty Advisors             | 2,904  |
| CB Richard Ellis                      | 9,666  |
| Heitman Capital Management, LLC       | 1,969  |
| ING Clarion Partners                  | 5,927  |
| Lowe Enterprises                      | 256    |
| Principal Global Investors            | 3,049  |
| Thomas Properties                     | 955    |
| Total Real Estate Managers/Advisors:  | 24,726 |
| Research and Rating Services:         |        |
| BCA Pulications                       | 74     |
| Credit Sights                         | 18     |
| Dow Jones & Co. Inc.                  | 14     |
| Factiva, Inc.                         | 14     |
| Fitch Information, Inc.               | 66     |
| Gimme Credit                          | 12     |
| Institutional Investor                | 70     |
| Intex Solutions, Inc.                 | 284    |
| ISI Group, Inc.                       | 50     |
| Moodys Investors Service              | 284    |
| Oxford Analytica, Ltd.                | 38     |
| Realpoint                             | 41     |
| Reuters America, LLC                  | 37     |
| Standard & Poor's                     | 331    |
| Strategic Economic Decisions Inc.     | 15     |
| The Yield Book                        | 77     |
| Thomson Financial                     | 94     |
| Thomson Tradeweb, LLC                 | 27     |
| Trans-Lux                             | 79     |
| Trepp, LLC                            | 44     |
| Zephyr Associates Inc.                | 18     |
| Total Research and Rating Services:   | 1,687  |
| Risk Management Systems:              |        |
| Ватта, Іпс.                           | 206    |
| Blackrock Financial Management, Inc.  | 2,566  |
| Bloomberg, LP                         | 546    |
| Total Risk Management Systems:        | 3,318  |

# California State Teachers' Retirement System State Teachers' Retirement Plan Schedule of Investment Expenses from Continuous Appropriation (Dollars in Thousands) Schedule IV (Continued)

| Advisers and Consultants:                       |               |         |
|-------------------------------------------------|---------------|---------|
| Altius Associates                               | \$            | 470     |
| Altura Capital                                  |               | 135     |
| Angeles Investment Advisors                     |               | 50      |
| Bard Consulting                                 |               | 562     |
| Bonuccelli & Associates, Inc.                   |               | 39      |
| Callan Associates                               |               | 50      |
| Cambridge Associates                            |               | 2,863   |
| Courtland Partners                              |               | 329     |
| Ennis Knupp & Associates                        |               | 96      |
| Houlihan Lokey Howard & Zukin                   |               | 196     |
| KPMG.LLP                                        |               | 425     |
| McKinsey & Co., Inc. United States              |               | 345     |
| McLagan Partners, Inc.                          |               | 55      |
| Pension Consulting Alliance                     |               | 1,135   |
| Valuation Research Corporation                  |               | 332     |
| Westwood Consulting Group                       |               | 24I     |
| Total Advisers and Consultants:                 |               | 7,323   |
| Total Advisors and Consultants.                 |               | 1,525   |
| Attorneys, Master Custodian and Insurers:       |               |         |
| Aon Risk Services                               |               | 875     |
| Cox Castle Nicholson                            |               | 101     |
| Groom Law Group                                 |               | 126     |
| Sheppard Mullin Richter & Hampton               |               | 58      |
| State Street Bank (Master Custodian)            |               | 5,263   |
| Total Attorneys, Master Custodian and Insurers: |               | 6,423   |
| Corporate Goverance:                            |               |         |
| Broadridge ICS                                  |               | 25      |
| Corporate Governance Management                 |               | 692     |
| Council of Institutional Investors              |               | 30      |
| Glass Lewis & Co., LLC                          |               | 199     |
| Governance Metics International                 |               | 20      |
| Institutional Shareholder Services              |               | 155     |
| Investor Responsibility Support Services, Inc.  |               | 35      |
| Runyon Saltzman & Einhorn, Inc.                 |               | 30      |
| The Altman Group, Inc.                          |               | 94      |
| The Conference Board                            |               | 10      |
| The Corporate Library                           |               | 22      |
| Total Corporate Goverance:                      | 9 <del></del> | 1,312   |
| Other Expenses:                                 |               |         |
| American Express                                |               | 14      |
| Bayard Advertising Agency                       |               | 45      |
| Miscellaneous                                   |               | 183     |
| Travel                                          |               | 88      |
| University Enterprises, Inc.                    |               | 33      |
| Total Other Expenses:                           | ) <del></del> | 363     |
|                                                 | : <del></del> |         |
| Total                                           | \$            | 146,426 |

# California State Teachers' Retirement System State Teachers' Retirement Plan Schedule of Consultant and Professional Services Expenses (Dollars in Thousands)

# Schedule V

| Individual or Firm                                        | Commission/ Fee |     | Nature of Services           |
|-----------------------------------------------------------|-----------------|-----|------------------------------|
| Consulting and professional services:                     |                 |     |                              |
| Agreeya Solutions                                         | \$              | 170 | Consulting Services          |
| Alameda County Office of Education                        |                 | 109 | Regional Counseling Services |
| Anne Staines Marketing Consult                            |                 | 45  | Consulting Services          |
| The Ballard Group                                         |                 | 187 | Consulting Services          |
| Benchmark Consulting Services                             |                 | 235 | Consulting Services          |
| Business Advantage                                        |                 | 192 | Consulting Services          |
| Cal Gov Technology                                        |                 | 503 | Consulting Services          |
| Calif Department of General Services                      |                 | 49  | Consulting Services          |
| CalPERS                                                   |                 | 30  | Consulting Services          |
| Capital Network Solutions                                 |                 | 23  | Consulting Services          |
| Citistreet Advisors, LLC<br>Contra Costa County Office of |                 | 122 | Consulting Services          |
| Education                                                 |                 | 133 | Regional Counseling Services |
| Cooperative Personnel Services                            |                 | 20  | Consulting Services          |
| Crusade                                                   |                 | 66  | Consulting Services          |
| CSUS Foundation                                           |                 | 187 | Consulting Services          |
| Department of Finance                                     |                 | 200 | Consulting Services          |
| Department of Justice<br>Department of Personnel          |                 | 401 | Legal Services               |
| Administration                                            |                 | 14  | Consulting Services          |
| DSG Group, Inc.                                           |                 | 81  | Consulting Services          |
| Eclipse Solutions, Inc.                                   |                 | 449 | Consulting Services          |
| Elk Grove Unified School District                         |                 | 20  | Regional Counseling Services |
| Employee Relations, Inc. Employment Development           |                 | 11  | Consulting Services          |
| Department                                                |                 | 44  | Consulting Services          |
| Filenet Corporation                                       |                 | 174 | Consulting Services          |
| Folsom Cordova Unified School                             |                 | 183 | Regional Counseling Services |
| Forward Solutions Fresno County Office of                 |                 | 170 | Consulting Services          |
| Education                                                 |                 | 92  | Regional Counseling Services |
| Gilbert Associates, Inc.                                  |                 | 23  | Consulting Services          |
| Graphic-Focus                                             |                 | 50  | Consulting Services          |
| Hareline Graphics                                         |                 | 32  | Consulting Services          |
| Helm Technical Services                                   |                 | 356 | Consulting Services          |
| The Highlands Consulting                                  |                 | 100 | Consulting Services          |
| Hogan & Hartson                                           |                 | 166 | Legal Services               |
| Image Access West                                         |                 | 14  | Consulting Services          |

# California State Teachers' Retirement System State Teachers' Retirement Plan Schedule of Consultant and Professional Services Expenses (Dollars in Thousands) Schedule V (Continued)

| Individual or Firm                                             | Commis     | sion/Fee  | Nature of Services                                        |
|----------------------------------------------------------------|------------|-----------|-----------------------------------------------------------|
| Consulting and professional services (c                        | ontinued): |           |                                                           |
| Infiniti Consulting Group, Inc                                 | \$         | 332       | Consulting Services                                       |
| Inforce Incorporated                                           |            | 891       | Consulting Services                                       |
| Insight Technologies, Inc.                                     |            | 41        | Consulting Services                                       |
| Intergalactic Placements                                       |            | 180       | Consulting Services                                       |
| International Network                                          |            | 602       | Consulting Services                                       |
| Jaykumar Maistry                                               |            | 1,329     | Consulting Services                                       |
| Jeve Consulting, Inc.                                          |            | 160       | Consulting Services                                       |
| Jubilce Technologies                                           |            | 94        | Consulting Services                                       |
| Kearnford Application Systems<br>Kern County Superintendent of |            | 28        | Consulting Services                                       |
| Schools                                                        |            | 206       | Regional Counseling Services                              |
| KPMG, LLP                                                      |            | 121       | Consulting Services                                       |
| Linda Rogers & Associates                                      |            | 235       | Consulting Services                                       |
| Los Angeles Community Colleges Los Angeles County              |            | 67        | Regional Counseling Services                              |
| Superintendent of Schools                                      |            | 474       | Regional Counseling Services                              |
| M Corporation                                                  |            | 246       | Consulting Services                                       |
| Macias, Gini & O'Connell LLP                                   |            | 141       | Audit Services                                            |
| Madsen Rayner Consulting, LLC                                  |            | 17        | Consulting Services                                       |
| Mara Consulting, Inc.                                          |            | 390       | Consulting Services                                       |
| Mayer Hoffman McCann. P.C.                                     |            | 175       | Consulting Services                                       |
| Milliman USA                                                   |            | 351       | Consulting Services                                       |
| Monterey County Office of Education                            |            | 54        | Regional Counseling Services                              |
| Montridge Consulting                                           |            | 315       | Consulting Services                                       |
| Nanran, Inc.                                                   |            | 924       | Consulting Services                                       |
| Olson, Hagel & Fishburn, LLP<br>Orange County Department of    |            | 96        | Legal Services                                            |
| Education                                                      |            | 384       | Regional Counseling Services                              |
| Personal Enterprises, Inc.                                     |            | 353       | Consulting Services                                       |
| Pinnacle Consulting Placer County Office of                    |            | 228       | Consulting Services                                       |
| Education Pleasanton Unified School District                   |            | 67<br>163 | Regional Counseling Services Regional Counseling Services |
| Princeton Solutions Group                                      |            | 246       | Consulting Services                                       |
| Public Sector Consultants, Inc.                                |            | 242       | Consulting Services                                       |
| Q Data Consulting                                              |            | 197       | Consulting Services                                       |
| Quest Media & Supplies                                         |            | 105       | Consulting Services                                       |
| Rapidigm                                                       |            | 70        | Consulting Services  Consulting Services                  |
| Kahudan                                                        |            | 70        | Consuming Services                                        |

# California State Teachers' Retirement System State Teachers' Retirement Plan Schedule of Consultant and Professional Services Expenses (Dollars in Thousands) Schedule V (Continued)

| Individual or Firm                                                                  | Commiss  | ion/Fee   | Nature of Services                                        |
|-------------------------------------------------------------------------------------|----------|-----------|-----------------------------------------------------------|
| Consulting and professional services (con                                           | tinued): |           |                                                           |
| Russbo, Incorporated                                                                | \$       | 265       | Consulting Services                                       |
| Saber Consulting, Inc. San Bernardino County Office of Education                    |          | 16<br>429 | Consulting Services                                       |
|                                                                                     |          |           | Regional Counseling Services                              |
| San Diego County Office of Education<br>San Francisco County Office of<br>Education |          | 207<br>43 | Regional Counseling Services Regional Counseling Services |
| San Joaquin County Office of                                                        |          |           |                                                           |
| Education                                                                           |          | 75        | Regional Counseling Services                              |
| San Jose Unified School District                                                    |          | 213       | Regional Counseling Services                              |
| San Mateo-Foster City School<br>Santa Barbara County Office of                      |          | 88        | Regional Counseling Services                              |
| Education                                                                           |          | 80        | Regional Counseling Services                              |
| Santa Cruz County of Education                                                      |          | 71        | Regional Counseling Services                              |
| Senate Rules Committee                                                              |          | 74        | Consulting Services                                       |
| Shasta County Office of Education                                                   |          | 142       | Regional Counseling Services                              |
| Shiva Systems                                                                       |          | 173       | Consulting Services                                       |
| Sierra Metrics, Inc.                                                                |          | 640       | Consulting Services                                       |
| Software AG, Inc.                                                                   |          | 176       | Consulting Services                                       |
| Solano County Office of Education                                                   |          | 52        | Regional Counseling Services                              |
| Sonoma County Superintendent of Schools                                             |          | 119       | Regional Counseling Services                              |
| Stanislaus County Office of Education                                               |          | 104       | Regional Counseling Services                              |
| State Controller's Office                                                           |          | 1,038     | Consulting Services                                       |
| State Personnel Board                                                               |          | 55        | Consulting Services                                       |
| Systems West Computer                                                               |          | 120       | Consulting Services                                       |
| Thirdwave Corporation                                                               |          | 143       | Consulting Services                                       |
| Thomas V. Ennis Consulting                                                          |          | 176       | Consulting Services                                       |
| Thomas/Ferrous                                                                      |          | 128       | Consulting Services                                       |
| Tulare County Superintendent of Schools                                             |          | 89        | Regional Counseling Services                              |
| University Enterprises, Inc.<br>Ventura County Superintendent of                    |          | 927       | Consulting Services                                       |
| Schools                                                                             |          | 87        | Regional Counseling Services                              |
| Visionary Integration                                                               |          | 142       | Consulting Services                                       |
| Visual Communication                                                                |          | 24        | Consulting Services                                       |
| Worldgroup Consulting, Inc.                                                         |          | 187       | Consulting Services                                       |

# California State Teachers' Retirement System State Teachers' Retirement Plan Schedule of Consultant and Professional Services Expenses (Dollars in Thousands) Schedule V (Continued)

| Individual or Firm                     | Commission/Fee | Nature of Services           |
|----------------------------------------|----------------|------------------------------|
| Consulting and professional services ( | continued):    |                              |
| Wright On-Line Systems                 | 246            | Consulting Services          |
| YOH Services, LLC                      | 110            | Consulting Services          |
| Yuba County Office of Education        | 43             | Regional Counseling Services |
| Other                                  | 215            | Various Services under \$10  |
|                                        | 20,872         |                              |
|                                        |                |                              |
| Data Processing:                       |                |                              |
| E Eye Digital Security                 | 14             | Data Processing              |
| IBM Corporation                        | 21             | Data Processing              |
| Quest Media & Supplies                 | 168            | Data Processing              |
| Other                                  | 11             | Various Services under S10   |
|                                        | 214            |                              |
|                                        |                | %                            |
| Consolidated Data Center:              |                |                              |
| Department of Technology Services      | 4,606          | Data Processing              |
| Health & Welfare Data Center           | 21             | Data Processing              |
| Stephen P. Teale Data Center           | 627            | Data Processing              |
|                                        | 5,254          |                              |
| Total consultant and professional      |                |                              |
| services expenses                      | \$ 26,340      |                              |

# **FINANCIAL**

# California State Teachers' Retirement System Voluntary Investment Program Schedule of Administrative Expenses (Dollars in Thousands)

Schedule VI

| CitiStreet administrative fee      | \$<br>712 |
|------------------------------------|-----------|
| System administrative/sponsor fees | 49        |
| Loan fees                          | 2         |
| Mutual fund fees                   | 16        |
| Redemption fees                    | 3         |
| Total                              | \$<br>782 |

# California State Teachers' Retirement System Teachers' Health Benefits Fund

# **Schedule of Administrative Expenses**

(Dollars in Thousands)

Schedule VII

| Personnel services:                    |                  |     |
|----------------------------------------|------------------|-----|
| Salaries & Wages                       | \$               | 86  |
| Staff benefits                         |                  | 35  |
| Accrued Vacation                       | ar dispersion of | 2   |
| Total personnel services               | E GAT            | 123 |
| Operating expenses and equipment:      |                  |     |
| General expense                        |                  | 55  |
| Communications                         |                  |     |
| Facilities Operations                  |                  |     |
| Consultants and professional services  |                  |     |
| Indirect State central services        |                  | 12  |
| Total operating expenses and equipment |                  | 67  |
| Total                                  | \$               | 190 |



NAME Vonna Breeze-Martin

SCHOOL DISTRICT Yosemite Community College

# **WHY I TEACH**

I teach because I love Spanish.
Sharing the language and culture with my students opens up the world for them.

# **SUBJECT AREA**

Spanish - Community College

CalSTRS member since 1990

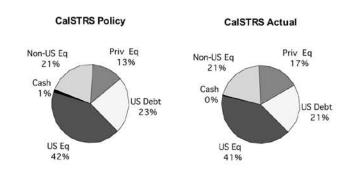




he CalSTRS Investment Portfolio increased by \$28.1 billion over the past twelve months, ending with a value of \$171.9 billion on June 30, 2007. As highlighted below, the CalSTRS Portfolio is broadly diversified, holding investments ranging from publicly traded short-term bonds to privately held partnerships. Clearly, the scale and breadth of investments make the management and oversight of these assets highly complex. In light of these factors, CalSTRS has been effective in using its resources in a cost-efficient manner to ensure that benefits continue to flow to CalSTRS participants.

#### Investment Allocation

The most critical factor influencing overall investment performance is the allocation of the CalSTRS Portfolio across major strategic investment classes. The fiscal year-end report reflects strategic allocation guidelines for the 2006-2007 fiscal year as a step towards long-term targets adopted in October of 2001 (see left pie chart). The portfolio's actual allocation is slightly different from policy. Private Equity is overweighted, while US Equity and US Debt are underweighted (see right pie chart). Investment gains in the private equity markets over recent periods contributed to the overweighting of this asset class.

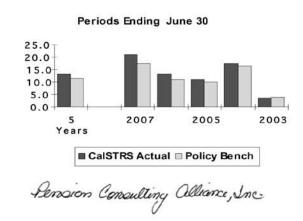


#### **Investment Results**

Over the last year, the CalSTRS Investment Portfolio produced a strong absolute return of 21.03%, ranking in the first percentile among its large public pension fund peers (top bar chart). During this period, portfolio results exceeded the policy benchmark return by 3.5%. Relative outperformance by the US Equity and Private Equity asset classes contributed significantly to this result.

During the last three years, CalSTRS' portfolio generated a 15.1% average annual return outperforming the policy benchmark by 2.4% per year and ranking in the top decile vs. their peer funds. Over the last five years, the CalSTRS Investment Portfolio produced an average annual return of 13.1%, exceeding its policy benchmark by 1.5% per year (bottom chart). These results are above CalSTRS' actuarial rate of return. Successive one-year periods are shown as well. CalSTRS' portfolio has outperformed its policy benchmark in four of the last five years for periods ending June 30.3





Per TUCS Universe for Public Funds with assets in excess of \$1 billion.

<sup>&</sup>lt;sup>2</sup> The policy benchmark consists of passively managed asset class portfolios weighted by CalSTRS' policy allocations. The difference between actual results and the benchmark are due to two factors: i) deviations from policy and ii) active decisions on the part of CalSTRS and its investment managers.

CalSTRS' investment performance is calculated using a monthly internal rate of return and day-weighted cash flows. Periods longer than one month are geometrically linked to calculate annualized "time-weighted" rates of return.

# **INVESTMENTS**

Liquidity 0.1%

U.S. Equity 40.9%

The CalSTRS Investment Portfolio gained \$28.1 billion in value, earning 21.03 percent in fiscal year 2006-07. This 21 percent return ranked as one of the highest in the U.S.A., and ranked in the top 1 percent of Public Funds measured by the Trust Universe Comparison Service (TUCS). In fiscal year 2006-07, four of the CalSTRS five asset classes earned over 20 percent. Over the last three straight years, the CalSTRS investment portfolio has earned 15.07 percent per year. In fact, CalSTRS investments have generated a double-digit return for four straight years. Over the past three- and five-year periods ending June 30, 2007, the portfolio has placed in the first percentile, besting 94 percent of the public pension plans in the nation, as measured by TUCS.

**Growth in Total Investments** 

\$47,523

(dollars in millions)

\$46,828

1993

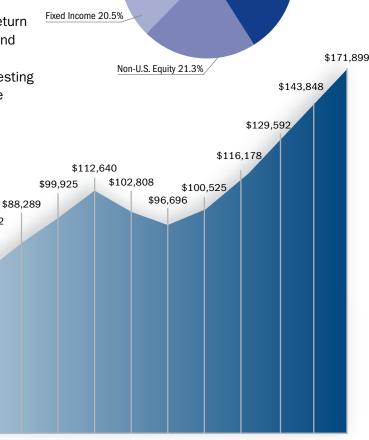
1994

# Asset Allocation as of June 30, 2007

Total investment portfolio of \$171.9 billion

Real Estate 9.8%

Alternative Investments 7.4%



2002 2003 2004

2005 2006 2007

Chart A

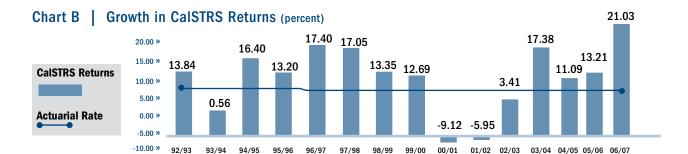
1998 1999 2000 2001

\$74,842

\$63,492

1995 1996 1997

\$55,481



This strong performance is the direct result of both the CalSTRS Investment Committee and chief investment officer's dedication to increasing the portfolio's diversification into long-term investments of real estate and alternative investments (private equity). These types of investments that last five to 15 years are generally not available to individual investors and cannot be included in mutual funds found in defined contribution and tax-sheltered annuities,

Chart C | Time-Weighted Performance Returns for Major Asset Categories

| PORTFOLIO TYPE / ASSOCIATED INDICIES        | 1 YR   | 3 YR   | 5 YR   | 10 YR |
|---------------------------------------------|--------|--------|--------|-------|
| Total Fund                                  | 21.03% | 15.07% | 13.08% | 8.97% |
| U.S. Equity                                 | 20.93  | 12.76  | 11.87  | 7.69  |
| U.S. Equity Custom <sup>1</sup>             | 19.89  | 12.24  | 11.39  | 7.39  |
| Russell 3000 *                              | 19.89  | 12.24  | 11.39  | 7.48  |
| Non-U.S. Equity                             | 30.23  | 24.58  | 19.12  | 8.66  |
| MSCI All Country Free ex U.S. (G) *         | 30.04  | 24.93  | 19.84  | 8.46  |
| MSCI Europe, Australia, Far East & Canada * | 26.93  | 22.19  | 17.67  | 7.62  |
| MSCI Emerging Market Free *                 | 45.55  | 38.68  | 30.63  | 9.34  |
| Fixed Income                                | 6.49   | 4.41   | 5.34   | 6.67  |
| US Debt Custom <sup>2</sup>                 | 6.16   | 4.08   | 5.22   | 6.55  |
| Lehman Brothers U.S. Aggregate              | 6.12   | 3.98   | 4.48   | 6.02  |
| Lehman Brothers High Yield Cash Pay         | 11.21  | 8.88   | 11.57  | 6.52  |
| Real Estate                                 | 32.89  | 29.74  | 21.23  | 17.83 |
| Real Estate Custom <sup>3</sup>             | 16.59  | 17.39  | 13.73  | 12.57 |
| Alternative Investments                     | 27.59  | 28.14  | 21.32  | 19.36 |
| Alternative Investments Custom <sup>4</sup> | 6.63   | 7.32   | 7.59   | 8.53  |
| Liquidity                                   | 9.53   | 6.31   | 8.07   | 6.95  |
| Citigroup 3-Month Treasury Bill             | 5.24   | 3.73   | 2.71   | 3.68  |

CalSTRS' investment performance is calculated using a monthly internal rate of return and day-weighted cash flows. Periods longer than one month are geometrically linked to calculate annualized 'time-weighted' rates of return.

<sup>\*</sup> CalSTRS adopted tobacco free indicies beginning 9/1/00.

<sup>&</sup>lt;sup>1</sup> Russell 3000 tobacco free after 9/1/00; Blend S&P 500 and Russell Small Cap Completeness after 7/1/01; Russell 3000 from 7/1/96.

<sup>&</sup>lt;sup>2</sup> Salomon LPF through 7/1/02; LB US Aggregate tobacco free through 4/1/07; thereafter a blend of LB US Aggregate and LB High Yield Cash Pay tobacco free.

<sup>&</sup>lt;sup>3</sup> NCRIEF after 7/1/97 and Institutional Property Consultants prior to 7/1/97; lagged 1 quarter.

<sup>&</sup>lt;sup>4</sup> Blend of the [Russell 3000 + 5% + 90 day T-Bill] after 4/1/99 and [CPI + 12%] prior to 4/1/99; lagged 1 quarter.

but are well suited for long-term investors in traditional pension plans.

In addition to the gains registered in real estate and alternative investments for the most recent year, the portfolio's non-U.S. equities also exceeded its benchmark, returning over 30 percent. For the last three years, CalSTRS has purposely over-weighted non-U.S. stocks compared to U.S. stocks to add value above the target benchmark. Over the last year, that decision added \$537 million and over the past three years, it generated \$1.3 billion. For the sixth straight year, since CalSTRS changed chief investment officers, the total CalSTRS investment portfolio exceeded the policy benchmark. Every asset class exceeded its policy benchmark this year and four out of the five asset classes exceeded their benchmarks over the past five years.

The total CalSTRS investment portfolio outperformed its policy benchmark by 354 basis points or 3.5 percent (21.03% compared to 17.49%). The policy benchmark is made up of the index returns for each asset class at the exact target allocations. This is a tough benchmark since it does not include any transaction costs. Over the past three years, the portfolio outperformed the benchmark by 238 basis points. This means CalSTRS investment staff and investment managers generated an extra \$9.9 billion of profit over the past three years, net of investment manager fees.

This out-performance in large part is due to the strength of the investment staff in the real estate and private equity areas; yet, it is also being generated in the U.S. equity, fixed income, and from the non-U.S. equity portfolios. At the start of fiscal year 2006–07, CalSTRS hired five new emerging market investment managers. Not only did those managers outperform their

benchmark but in their first year, in aggregate, all five earned an amazing 47.8 percent on CalSTRS investments.

A core tenet that drives and guides the investment portfolio is the CalSTRS Investment Policies developed by the Investment Committee. Under the guidance of CalSTRS expert external investment consultant, Pension Consulting Alliance, the Investment Committee revised several policies during the fiscal year. Changes were made to the asset allocation targets in the Investment Policy and Management Plan in line with the long-term plan developed after the 2006 Asset Liability Study. Additionally, increases in the percentage of active management vs. core/ passive management were approved for the global equity, fixed income, currency management and real estate policies. Finally, changes in guidance and discretion to staff were approved in the corporate governance, real estate, and alternative investment policies. In total, 10 policies were revised during the year to accommodate the continued growth in complexity and size of the CalSTRS investment portfolio.

CalSTRS has become a recognized world-class money manager and industry leader in the pension and institutional investment community. Pension plans from Japan, Korea, France, Mexico, Canada, Singapore, and the Philippines have visited our investment operations to learn from CalSTRS. The CalSTRS investment staff serves on the advisory boards of all the major equity and fixed income indices. The CalSTRS chief executive officer and chief investment officer each serve as the chair of the board for two leading non-profit industry educational and advocacy firms.

As the teachers of the state of California would expect and deserve, CalSTRS is at the forefront and leading the way for the institutional investment industry. An example of that

leadership is in corporate governance and climate change. In corporate governance, CalSTRS has been instrumental in the Council of Institutional Investors and in major governance improvements across America. Our actions are not bound to our coastline; CalSTRS staff has been active with both the international and Asian corporate governance associations.

In addition, staff and our activist investment managers have influenced improvements at Prudential Insurance, Home Depot, Qwest, United Health, and Computer Associates in the past year. In the area of climate change, CalSTRS has developed a four-pronged approach to manage the risk of climate change and to gain from the opportunity of new solutions in Clean Tech. In alternative investments, CalSTRS is a major investor in the first commercial, all-electric car that goes 0-60 m.p.h. in under four seconds and can drive over 200 miles on a single charge. CalSTRS has also backed a thin-cell photovoltaic solar company that can produce solar cells at a lower cost. On the risk side, CalSTRS is factoring the risk of strong winds and storms into our real estate decisions and the risk of

environmental exposure into our debt decisions. All told, CalSTRS is once again ahead of our peers in many forward-thinking areas, all designed to identify change and protect the portfolio from potential risk while positioning to profit from those very changes.

## Fixed Income

The fixed income assets within the CalSTRS investment portfolio comprise internally and externally managed portfolios, which amounted to \$35.26 billion at fiscal year end. A majority of the fixed income assets (78 percent) are managed internally and follow a Core Strategy, that has an objective of producing market level returns with a low-to-moderate level of risk. The remaining assets (22 percent) are managed externally and follow an Opportunistic Strategy, with higher risk levels and higher expected returns.

The Fixed Income Portfolio has outperformed its benchmark over all time periods (one, three, five and 10 years) ending June 30, 2007. This past year, the portfolio outperformed its benchmark by 33 basis points, contributing in excess of \$100 million in additional value to the Fund.

Chart D | Largest Fixed Income Holdings as of June 30, 2007 (CalSTRS maintains a complete list of portfolio holdings)

| ISSUE                    | MATURITY<br>Date | INTEREST<br>RATE | PAR         | MARKET<br>VALUE | AVERAGE<br>COST | UNREALIZED<br>GAIN (LOSS) |
|--------------------------|------------------|------------------|-------------|-----------------|-----------------|---------------------------|
| US TREASURY NTS          | 8/15/2012        | 4.375%           | 425,000,000 | \$415,445,996   | \$420,482,562   | \$(5,036,566)             |
| UNITED STATES TREAS NTS  | 3/15/2009        | 2.625            | 430,000,000 | 413,500,909     | 421,951,912     | (8,451,003)               |
| UNITED STATES TREAS NTS  | 2/15/2010        | 4.750            | 395,000,000 | 393,538,488     | 396,888,365     | (3,349,877)               |
| UNITED STATES TREAS NTS  | 11/15/2012       | 4.000            | 297,800,000 | 285,441,294     | 284,950,674     | 490,620                   |
| UNITED STATES TREAS NTS  | 2/15/2014        | 4.000            | 245,000,000 | 231,907,195     | 236,928,661     | (5,021,466)               |
| FED HM LN PC POOL G12050 | 1/1/2019         | 4.500            | 232,003,861 | 221,310,109     | 219,461,152     | 1,848,957                 |
| FEDERAL HOME LN MTG CORP | 9/2/2011         | 5.450            | 210,000,000 | 208,908,714     | 210,000,000     | (1,091,286)               |
| FEDERAL HOME LOAN BANK   | 6/4/2009         | 5.125            | 200,000,000 | 199,566,000     | 199,637,000     | (71,000)                  |
| FEDERAL HOME LN MTG CORP | 1/9/2014         | 5.375            | 200,000,000 | 196,873,380     | 198,772,038     | (1,898,658)               |
| FEDERAL NATL MTG ASSN    | 2/1/2017         | 5.600            | 200,000,000 | 196,143,920     | 199,980,877     | (3,836,957)               |

Breaking this performance down by strategy, the internally managed Core assets were able to add 21 basis points above the benchmark. Within the Opportunistic Strategy, although the high yield sector had another good year of relative performance, returning more than 11 percent, our active external high yield managers underperformed their benchmark again this year. This underperformance was due, in large part, to their higher quality bias. In response to the high correlation among our existing external managers, staff has restructured the high yield portion of the portfolio, resulting in a more diverse pool of manager styles. This should better position the portfolio going forward in a variety of markets. The core plus managers within the Opportunistic Strategy have only just recently completed funding and also represent a group of diverse styles that staff anticipates will be able to provide value to the portfolio over time.

Two other investment programs are managed by the fixed income team: Currency Management and Securities Lending.

## **CURRENCY MANAGEMENT PROGRAM**

Because of the global nature of the Fund, and the impact that currency fluctuations can have on the return of dollar-based investors, CalSTRS has recognized the need to implement strategies designed to address the management of currency risk. The Currency Management Program strives to protect the value of the System's non-dollar assets by selling controlled amounts of foreign currency positions in approved currencies (i.e., hedging) when there is the risk that the U.S. dollar may strengthen, and removing them when there is widespread U.S. dollar weakness. A strengthening dollar lowers international asset returns. The program also includes a return enhancement component for when the U.S. dollar declines in value, and permits strategies to profit within those

environments, giving CalSTRS another potential source of added return to the portfolio. Although the U.S. dollar continued its multiyear trend lower against its major trading partners over the past fiscal year, it was a volatile market environment. Therefore, to maximize the benefit to the fund of holding non-dollar assets, CalSTRS did little to no hedging in order to allow the portfolio to take advantage of the weakening U.S. dollar.

### **SECURITIES LENDING PROGRAM**

The Securities Lending Program enables the fund to generate incremental income by making collateralized, low-risk, short-term loans, using a portion of the equity and fixed income assets held within the investment portfolio. CalSTRS size and presence in the capital markets make it a prime resource for securities lending. Approximately 75 percent of the CalSTRS investment portfolio is considered "lendable," in that it includes assets that are in demand by borrowers on a regular basis. Consistent with past experience, approximately 20 to 25 percent of those assets are on loan at any time, which compares favorably to our peers. The performance objective for the program is to earn lending income commensurate with: 1) the market demand for the securities made available for lending, and 2) the return earned on the investment of cash collateral within the guidelines set forth by CalSTRS. For the fiscal year ended June 30, 2007, the Securities Lending Program earned approximately \$79 million in additional income for the Fund.

# Home Loan Program

The CalSTRS Home Loan Program, established by legislation in 1984, provides the opportunity for home ownership to qualified participants while meeting CalSTRS investment goals by generating a mortgage asset. The Home Loan Program offers borrowers a variety of mortgage programs

Chart E | Largest Equity Holdings as of June 30, 2007 (CalSTRS maintains a complete list of portfolio holdings)

| ISSUE             | SHARES     | MARKET VALUE    | AVERAGE COST  | UNREALIZED<br>GAIN/(LOSS) |
|-------------------|------------|-----------------|---------------|---------------------------|
| Exxon Mobil Corp  | 20,373,725 | \$1,708,948,053 | \$594,199,833 | \$1,114,748,220           |
| General Elec Co   | 37,047,670 | 1,418,184,808   | 752,964,208   | 665,220,600               |
| Citigroup Inc     | 19,603,937 | 1,005,485,929   | 533,445,025   | 472,040,904               |
| Microsoft Corp    | 33,546,328 | 988,610,286     | 622,637,879   | 365,972,407               |
| AT+T Inc          | 23,447,712 | 973,080,048     | 607,875,119   | 365,204,929               |
| Bank Amer Corp    | 17,512,069 | 856,165,053     | 486,958,270   | 369,206,783               |
| Pfizer Inc        | 28,736,790 | 734,799,720     | 606,129,661   | 128,670,059               |
| Chevron Corp      | 8,359,830  | 704,232,079     | 344,361,747   | 359,870,332               |
| Johnson + Johnson | 11,334,639 | 698,440,455     | 433,677,551   | 264,762,904               |
| Cisco Sys Inc     | 24,204,545 | 674,096,578     | 368,117,841   | 305,978,737               |

that best meet their individual needs, while also providing "best in class" customer service to our borrowers—before, during and after the mortgage loan process. The assets created by the Home Loan Program are purchased and managed as part of the mortgage allocation within the Fixed Income Portfolio or sold in the financial markets.

Countrywide Home Loans continues to act as a strategic partner to the program. With their assistance, the number of correspondent lenders has expanded from five to 30. A dedicated 1-800 number has been installed for inquiries from prospective borrowers, an improved structure to the down payment assistance programs was instituted, and the Home Loan Program Web site has been improved, making it more user friendly and providing more information to prospective borrowers. We anticipate better service to our borrowers and more improvements to our program and processes as we move forward.

As a result of member feedback, the Reverse Mortgage Program was launched in early 2007 to provide a financial alternative to members age 62 and older.

# **Internal Equity Management**

The Internal Equities team manages approximately one-third of CalSTRS domestic equity allocation. This is accomplished primarily through two portfolios, a passively managed index fund and a cash equitization program. The indexed portfolio is benchmarked to the Russell 1000 ex-Tobacco Index. As of June 30, 2007, the portfolio was valued at \$22.08 billion. The portfolio has achieved annualized returns of 20.48 and 12.27 percent for the one- and three-year periods, respectively. For the one-year period ending June 30, 2007, the portfolio outperformed the benchmark by 0.24 percent.

The Cash Equitization Program pools the excess cash in CalSTRS actively managed domestic accounts so that these monies can be invested so as to gain exposure to the equity market. This portfolio is managed in partnership with CalSTRS Fixed Income unit. The program has achieved annualized returns of 20.60 percent and 11.67 percent for the one- and three-year periods, respectively. For the one-year period ending June 30, 2007, the portfolio beat the benchmark by 0.01 percent.

## Alternative Investments

During fiscal year 2006-07, CalSTRS made additional commitments of approximately \$8.6 billion in this segment of the portfolio. The market value plus unfunded commitments now amount to approximately \$25.3 billion. The Alternative Investments group invests in the private equity market. The vast majority of its investments are made through limited partnerships, which consist of pools of capital raised from, among others, pension funds, endowments and high net worth individuals. These funds invest primarily in private companies, providing financial and operational expertise in order to achieve a significant return on investment upon exit. The group also manages a co-investment portfolio of companies in which CalSTRS has invested alongside the partnership that made the direct investment. It also invests in secondary interests. There are 216 partnerships, 38 co-investments, and five secondaries in the Alternative Investments portfolio. At the end of the fiscal year, the total market value was \$11.4 billion, representing approximately 6.7 percent of the total CalSTRS portfolio. CalSTRS continues to increase its commitments in this area as a result of the allocation review completed at the end of June 1999. The Alternative Investments asset class has achieved annualized returns of 27.6, 28.2, and 21.3 percent, lagged one quarter, for the one-, three-, and five-year periods respectively.

## Credit Enhancement

CalSTRS has long-term credit ratings of AA+/Aaa/AAA by Standard and Poor's, Moody's Investors Service, and Fitch Inc., respectively. The ratings are utilized by issuers of municipal debt to assist in the issuance of variable rate municipal bonds. CalSTRS enters into agreements with a number of issuers of tax-exempt debt to provide the payment

of principal and interest in the event of a non-payment and/or market support in the capital markets. In return, CalSTRS earns fee income for these commitments. As of June 30, 2007, the Credit Enhancement Program had commitments of approximately \$2.3 billion and fee income earned during the fiscal year was approximately \$5 million.

## Real Estate

CalSTRS portfolio of real estate assets is valued at \$16.9 billion. Real estate assets are 9.8 percent of the total fund with a 9 percent allocation. The real estate portfolio is divided into two segments: 1) core, with the objective of producing stable current income and market level returns commensurate with a low to moderate level of risk; and 2) tactical, with the objective of enhancing the performance of the real estate portfolio and to provide additional diversification. The investments in the core portfolio are held directly or with a joint venture partner and are diversified by property type and region. The core portfolio comprises 42 percent of the real estate portfolio. The tactical portfolio investments are made either with a joint venture partner or are investments in a commingled fund, both domestic and international. The tactical portfolio comprises 58 percent of the real estate portfolio. The CalSTRS real estate portfolio has achieved gross annualized returns of 32.9, 29.7, and 21.2 percent for the one-, three-, and five-year periods, respectively. CalSTRS returns exceeded the NCREIF benchmark by 16.3, 12.3, and 7.5 percent for each of the one-, three-, and five-year periods.

# Global Equities – External Management (formerly External Equity Managers)

The Global Equity Portfolio, comprising both internally and externally managed portfolios,

continued to be an important investment vehicle to the fund. At the end of fiscal year 2006–07, this segment of the portfolio accounted for 62.2 percent (or \$106.8 billion) of the total fund. U.S. Equity accounted for 66 percent of the total equity allocation, while non-U.S. Equity accounted for the remaining 34 percent.

The Global Equity portfolio is managed by one internal and 25 external U.S. managers and 20 external non-U.S. managers. Overall, global equity markets continued to advance through fiscal year 2006–07 with a rate of return for the MSCI All Country World Index ("ACWI") ex-U.S. ex-Tobacco of 30.04 percent. Furthermore, both U.S. and non-U.S. active composites outperformed their benchmarks for the fiscal year, with U.S. active managers outperforming the Russell 3000 ex-Tobacco Index by 302 basis points (22.91 percent vs. 19.89 percent) and non-U.S. active managers outperforming the MSCI EAFE + Canada ex-Tobacco Index by 531 basis points (32.24 percent vs. 26.93 percent).

# External U.S. and Non-U.S. Equity Programs

During fiscal year 2006–07, the Global Equities group implemented the following key initiatives:

- Implemented an environmentally focused sustainable investment strategy in the Global Equity Portfolio by hiring and fully funding four external investment management firms. Two of the managers have a U.S. mandate, one has a global mandate and one has a Canadianfocused mandate.
- Continued an overall increase to low-risk active U.S. equity strategies by increasing exposure to enhanced index strategies from pure passive indexing.

 Launched a search to expand the fund-of-funds manager roster for the Developing Manager Program. The final selections are expected during the first half of the 2007–08 fiscal year.

#### **CORPORATE GOVERNANCE**

During fiscal year 2006–07, CalSTRS voted on a variety of proxy issues including financial, corporate governance and social issues. Nearly 7,932 votes were cast on proxy issues for corporations whose shares were owned in the investment portfolio. Proxy issues were presented on 2,963 companies. The overall number of proxy issues decreased slightly from last year.

The major proxy issues voted on are summarized below.

1. Election of Directors: CalSTRS generally votes in favor of a director unless the proxy statement shows circumstances contrary to policy. Examples of such circumstances include: potential conflict of interest due to other directorships or employment, providing legal or investment banking advice, and poor board meeting attendance (less than 75 percent).

» Number Voted: 2,856

» Voted For All: 1,235 (43%)

» Split Vote: 960 (34%)

» Voted Against All: 661 (23%)

2. Selection of Auditors: CalSTRS will vote in favor of the independent auditors recommended by management unless the auditor provides services that run contrary to what CalSTRS policy allows for. Examples of such services are: consulting, information system design and implementation, investment banking support, and excessive non-audit fees (greater than 30 percent of the total fees billed).

» Number Voted: 2,190» Voted For: 1,974 (90%)» Voted Against: 216 (10%)

3. Compensation Plans: (Stock Option Plans, Employee Stock Purchase Plans, etc.) Companies provide a variety of compensation plans for executives, employees, and non-employee directors. Many of these plans provide for the issuance of long-term incentives to attract, reward, and retain key employees. Compensation plans are evaluated based on CalSTRS Financial Responsibility Criteria.

» Number Voted: 1,206» Voted For: 438 (36%)» Voted Against: 768 (64%)

Approve Merger/Acquisition—Management:
 CalSTRS evaluates mergers and acquisitions on a case-by-case basis utilizing a total portfolio view.

» Number Voted: 231» Voted For: 193 (84%)» Voted Against: 38 (16%)

5. Corporate Actions/Corporate Governance Issues: These are issues related to spin-offs, incorporation, stock issuance, and stock splits. CalSTRS votes on these proposals on a case-by-case basis.

» Number Voted: 144» Voted For: 36 (25%)

» Voted Against: 108 (75%)

6. Miscellaneous Issues—Management: CalSTRS will vote in favor of other miscellaneous business recommended by management unless the issue to be voted on is contrary to policy. These issues are voted on a case-by-case basis.

» Number Voted: 564» Voted For: 220 (39%)» Voted Against: 344 (61%)

7. Shareholder Proposals: CalSTRS votes on a variety of shareholder proposals. Examples of the issues voted on include: removing classified boards of directors, requiring an independent board chairman, eliminating poison pills, tieing compensation plans to company performance, and requiring shareholder approval for large severance packages.

» Number Voted: 680» Voted For: 520 (76%)» Voted Against: 160 (24%)

The Corporate Governance unit continues to manage two governance funds, accounting for a combined \$1.5 billion in assets under management. Both funds invest in governance-poor companies and engage management in securing governance and shareholder value improvement. For the year ending June 30, 2007, the Corporate Governance funds returned over 30 percent.

#### **CASH BALANCE BENEFIT PROGRAM**

The Cash Balance Benefit Program contributions were invested into pooled funds from inception (February 1, 1997) through June 30, 2001. Sixty percent of the contributions were allocated to the S & P 500 Portfolio and forty percent to the Government Index Portfolio. Beginning July 1, 2002, Cash Balance Benefit Program contributions are invested in the Teachers' Retirement Fund, excluding private equity (Alternative and Real Estate investments). The investment value of contributions, as of June 30, 2007, is \$92 million. The rate of return for the Cash Balance Benefit Program for the fiscal year was 19.5 percent.

#### **DEFINED BENEFIT SUPPLEMENT PROGRAM**

The Defined Benefit Supplement Program contributions are invested in the Teachers' Retirement Fund excluding private equity (Alternative and Real Estate investments). Contributions were first received in the Defined Benefit Supplement Program in January 2001. The investment value of those contributions as of June 30, 2007, is \$5.2 billion. Since the inception of the Defined Benefit Supplement Program, the annualized rate of return is 7.2 percent. The rate of return for the Defined Benefit Supplement Program for fiscal year 2006–07 is 19.5 percent.

Chart F | Investment Summary for the Current and Previous Fiscal Year (dollars in millions)

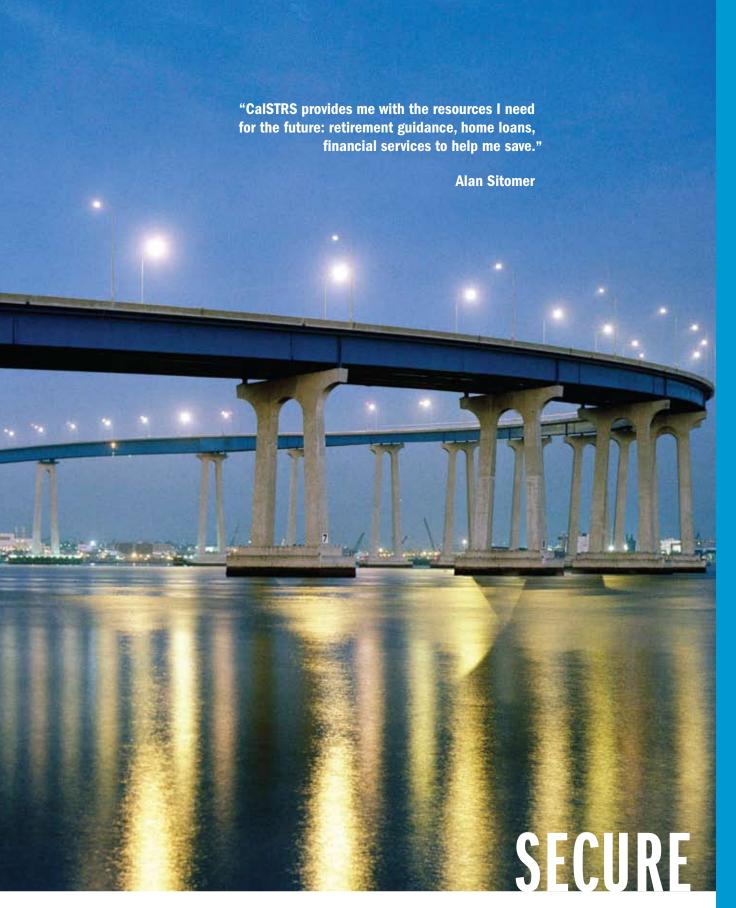
|                               | June 3        | 0, 2006         | June 30, 2007 |                 |                         |                         |
|-------------------------------|---------------|-----------------|---------------|-----------------|-------------------------|-------------------------|
| PORTFOLIO TYPE                | BOOK<br>VALUE | MARKET<br>VALUE | BOOK<br>VALUE | MARKET<br>VALUE | % OF<br>MARKET<br>VALUE | NET<br>MARKET<br>CHANGE |
| U.S. Equity                   | \$40,377      | \$60,456        | \$44,803      | \$70,263        | 40.88%                  | 9,807                   |
| Non-U.S. Equity               | 23,922        | 32,053          | 24,424        | 36,569          | 21.27                   | 4,516                   |
| Fixed Income                  | 32,871        | 31,765          | 36,421        | 35,254          | 20.51                   | 3,489                   |
| Alternative Investments       | 7,071         | 8,629           | 9,959         | 12,742          | 7.41                    | 4,113                   |
| Real Estate                   | 8,579         | 10,618          | 13,192        | 16,899          | 9.83                    | 6,281                   |
| Liquidity                     | 324           | 327             | 169           | 172             | 0.10                    | -155                    |
| TOTAL PORTFOLIO               | \$113,144     | \$143,848       | \$128,968     | \$171,899       | 100.00%                 | 28,051                  |
| Adjustments:                  |               |                 |               |                 |                         |                         |
| Securities Lending Collateral |               | 27,626          |               | 32,067          |                         |                         |
| Real Estate Accruals          |               | 1,236           |               | 1,177           |                         |                         |
| SSB Accruals                  |               | 398             |               | 816             |                         |                         |
| Cash & Cash Equiv             |               | -236            |               | -311            |                         |                         |
| PLAN NET ASSETS-INVESTMENTS   |               | \$172,872       |               | \$205,648       |                         |                         |

Chart G | Schedule of Investment Fees from Continuous Appropriation July 1, 2006, Through June 30, 2007 (dollars in thousands)

|                                 | ASSETS UNDER MANAGEMENT | FEES      | BASIS<br>POINTS |
|---------------------------------|-------------------------|-----------|-----------------|
| Investment Managers' Fees       |                         |           |                 |
| U.S. Equity                     | \$46,033,973            | \$34,097  | 7.4             |
| Non-U.S. Equity                 | 35,925,426              | 61,091    | 17.0            |
| Fixed Income                    | 7,729,138               | 6,086     | 7.9             |
| Alternative Investments         | 11,418,794              | 3,678     | 3.2             |
| Real Estate                     | 16,834,394              | 24,726    | 14.7            |
| TOTAL INVESTMENT MANAGERS' FEES | \$117,941,725           | \$129,678 | 11.0            |

Chart H | Broker Commissions July 1, 2006, Through June 30, 2007

| BROKER NAME                              | COMMISSION   | SHARES        | COMMISSION<br>PER SHARE |
|------------------------------------------|--------------|---------------|-------------------------|
| US Equity Transactions                   |              |               |                         |
| Bear, Stearns Securities Corp            | \$1,556,754  | 66,231,660    | \$0.024                 |
| Instinet                                 | 1,290,954    | 91,665,639    | 0.014                   |
| Investment Technology Group Inc.         | 913,254      | 55,207,493    | 0.017                   |
| Citigroupglobal Markets Inc              | 846,363      | 35,505,751    | 0.024                   |
| Merrill Lynch Pierce Fenner + Smith Inc. | 813,122      | 41,171,618    | 0.020                   |
| J.P. Morgan Securities Ltd               | 781,437      | 41,796,580    | 0.019                   |
| Lynch Jones & Ryan                       | 727,706      | 16,512,431    | 0.044                   |
| Lehman Bros Inc.                         | 721,767      | 42,192,395    | 0.017                   |
| BNY Brokerage Inc                        | 706,932      | 18,388,010    | 0.038                   |
| Goldman Sachs                            | 655,421      | 50,577,918    | 0.013                   |
| Other US Brokers                         | 9,810,748    | 403,990,529   | 0.024                   |
| TOTAL US COMMISSIONS                     | \$18,824,458 | 863,240,024   | \$0.022                 |
| Non-US Equity Transactions               |              |               |                         |
| Credit Suisse Bank                       | \$4,484,201  | 387,109,142   | \$0.012                 |
| Merrill Lynch                            | 3,899,328    | 597,968,540   | 0.007                   |
| UBS Ag                                   | 2,706,868    | 265,602,179   | 0.010                   |
| Citigroup                                | 2,172,688    | 203,224,371   | 0.011                   |
| J.P. Morgan Securities Ltd               | 2,067,401    | 270,865,394   | 0.008                   |
| Morgan Stanley + Co                      | 1,986,611    | 190,930,196   | 0.010                   |
| Goldman Sachs                            | 1,891,593    | 245,578,517   | 0.008                   |
| Lehman Brothers Securities               | 1,587,521    | 137,637,776   | 0.012                   |
| Deutsche Bank Securities Corp            | 1,585,244    | 178,077,464   | 0.009                   |
| Credit Lyonnais                          | 1,028,260    | 183,007,599   | 0.006                   |
| Other Non-US Brokers                     | 11,569,503   | 1,226,996,570 | 0.009                   |
| TOTAL NON-US COMMISSIONS                 | \$34,979,218 | 3,886,997,748 | \$0.009                 |



# ACTUARIAL

NAME Alan Sitomer

SCHOOL DISTRICT Lynwood Unified

## **WHY I TEACH**

It's the most personally fulfilling work I can do. I am a better human being because I am a teacher.

## **SUBJECT AREA**

**English - High School** 

CalSTRS member since 2000



**ACTUARIAL** 

**ACTUARY'S CERTIFICATION LETTER** 



111 SW Fifth Avenue Suite 3700 Portland, OR 97204

Tel +1 503 227 0634 Fax +1 503 227 7956 milliman.com

January 16, 2008

Teachers' Retirement Board California State Teachers' Retirement System

Re: Valuation of the Defined Benefit Program

Dear Members of the Board:

We have performed an actuarial valuation of the Defined Benefit Program of the California State Teachers' Retirement System as of June 30, 2006. Our findings indicate the projected income stream from contributions mandated by the Education Code will not be sufficient to pay the Normal Costs and to amortize the Unfunded Actuarial Obligation. The DB Program was funded on a sound actuarial basis in the 2001 actuarial valuation. The decline in the funded status is due primarily to subsequent investment returns less than the long-term actuarial assumption of 8% per year.

Actuarial valuations are normally performed every two years, as of June 30 of each oddnumbered year. An additional valuation was performed as of June 30, 2006.

In preparing the 2006 valuation, we relied upon the financial information and membership data furnished by the System, and the Report of Independent Accountants. Although we did not audit this data, we compared the data for this and the prior valuation and tested for reasonableness. Based on these tests, we believe the data to be sufficiently accurate for the purposes of our calculations. It should be noted that if any data or other information is inaccurate or incomplete, our calculations may need to be revised.

Milliman did not prepare Schedules I and II, nor the summary of actuarial methods and assumptions in Schedule II of the Financial Section, nor the information included in this Actuarial Section of the 2007 Comprehensive Annual Financial Report. However, the actuarial information contained in Schedule I of the Financial Section and in this Actuarial Section was derived from our June 30, 2006 actuarial valuation report.

The Teachers' Retirement Board has sole authority to determine the actuarial assumptions and methods used for the DB Program. The Board adopted all of the actuarial methods and assumptions used in the 2006 valuation.

The findings have been determined according to actuarial assumptions and methods that were chosen on the basis of recent experience of the DB Program and of current expectations concerning future economic conditions. In our opinion, the assumptions used in the actuarial

#### ACTUARY'S CERTIFICATION LETTER, CONTINUED



Teachers' Retirement Board January 16, 2008 Page 2

valuation are appropriate for purposes of the valuation, are internally consistent, and reflect reasonable expectations. The assumptions represent our best estimate of future conditions affecting the DB Program. Nevertheless, the emerging costs of the DB Program will vary from those presented in this report to the extent that actual experience differs from that projected by the assumptions.

I certify that the information included in this report is complete and accurate to the best of my knowledge and belief. The actuarial valuation was prepared in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the applicable Standards of Practice adopted by the Actuarial Standards Board of the American Academy of Actuaries. In addition, the assumptions and methods used meet the parameters set for disclosures by Statement No. 25 of the Governmental Accounting Standards Board.

Milliman has been engaged by CalSTRS as an independent actuary. The undersigned is a Fellow of the Society of Actuaries, a Member of the American Academy of Actuaries, an Enrolled Actuary, and experienced in performing valuations for large public employee retirement systems.

In conclusion, based on the current actuarial assumptions, the current projected income from member, employer, and State contributions will not finance the DB Program of the California State Teachers' Retirement System on an actuarially sound basis. That is, the expected contributions are not sufficient to fund the annual cost of the program and amortize the Unfunded Actuarial Obligation over a period of 30 years or less.

Respectfully submitted,

(Mark D. Johnson, F.S.A., M.A.A.A., E.A.

Principal and Consulting Actuary

# Summary of Actuarial Assumptions and Methods

CalSTRS, through its consulting actuary, performs an experience study every four years to determine appropriate demographic and economic assumptions. These assumptions are then applied when the consulting actuary performs an actuarial valuation to monitor the funding status of the Defined Benefit Program. The most recent experience study for the period 1999 through 2003 was completed as of June 30, 2003. The study was adopted by the Teachers' Retirement Board on March 4, 2004. The most recent actuarial valuation was completed as of June 30, 2006, and adopted by the Teachers' Retirement Board on June 7, 2007. The following summary and tables were prepared by the CalSTRS staff. All of the assumptions used in the actuarial valuation were adopted by the Teachers' Retirement Board when the experience study was adopted on March 4, 2004. All information is considered in the June 30, 2006, actuarial valuation.

Following is a summary of the assumptions adopted by the Teachers' Retirement Board for this program.

- Investment return rate is 8.00 percent.
- Method used to value program assets for actuarial valuation purposes: Expected actuarial value adjusted for one-third of the difference between actual market value and expected actuarial value.

- Assumption for general wage increase is 4.25 percent, of which 3.25 percent is due to inflation and 1.00 percent is due to expected gains in productivity.
- The actuarial cost method used by the program is the entry age normal actuarial cost method.
- The extent to which benefits are expected to increase as a result of cost-of-living type adjustments is an annual 2 percent increase to the initial benefit beginning on September 1 following the first anniversary of the effective date of the benefit. Since 1972, this increase is applied to all eligible continuing benefits.

#### **DISCUSSION OF RECENT CHANGES IN:**

The nature of the program—Since the last experience study as of June 30, 2003, program amendments have been made that have affected the June 30, 2006 actuarial valuation.

These program amendments include:

#### Effective January 1, 2005

- Recalculate the benefits to part-time and adult education community college employees who were members prior to July 1, 1996.
- Expand eligibility for partial lump-sum benefit.
- Eliminate one-year prohibition on employment in a California public school for members who receive a Retirement Incentive benefit.

- Extend a five-year prohibition on employment with a granting employer to Community College and County Office of Education members.
- Extend for up to two years an existing postretirement earnings exemption for retired members who fill a vacant administrative position in an emergency situation.
- Extend required retirement date and sunset date for other existing post retirement earnings exemptions.
- Allow up to <sup>2</sup>/<sub>10</sub> of one year of unused sick leave to count towards qualifying for one-year final compensation, longevity bonus and career factor.

#### Effective January 1, 2004

#### Death Before Retirement — Coverage B

Expand the definition of spouse for purposes
of receiving a survivor benefit to include a
person married to the member for less than
12 months prior to the accidental death of the
member or for the period beginning prior to
the occurrence of the injury or diagnosis of an
illness that resulted in the member's death.

#### **Funding**

- The General Fund contribution to the Supplemental Benefit Maintenance Account was reduced by \$500 million effective for the 2003–04 fiscal year.
- Subsequently, CalSTRS took legal action to compel the state to contribute the remaining \$500 million. On August 30, 2007, the Third District Court of Appeal in Sacramento issued a decision requiring the state to pay CalSTRS \$500 million plus interest for the withheld contribution from fiscal year 2003–04. On September 6, 2007, the State paid CalSTRS \$500 million for the withheld contributions. Paying the interest on the withheld contributions requires an appropriation by the Legislature.

Actuarial assumptions: The actuarial valuation utilizes various methods and two different types of assumptions: economic and demographic. Economic assumptions are related to the general economy and its impact on CalSTRS or to the operation of the membership. Demographic assumptions predict the future experience of the membership with respect to eligibility and benefits and are directly related to the specific experience of CalSTRS members.

**Economic assumptions:** The two major economic assumptions are investment return and wage growth and each is affected by the underlying assumed rate of inflation. Table 5 provides the economic actuarial assumptions for this program as reflected in the most recent actuarial valuation for the program (as of June 30, 2006).

**Demographic assumptions:** Tables 1–4 and 6–9 provide demographic assumption information for this program as reflected in the most recent actuarial valuation for the program (as of June 30, 2006).

#### **Actuarial Methods**

Actuarial Cost Method Entry Age Normal

Asset Valuation Method Expected Value with one-third adjustment to Market Value (3-Year Asset Smoothing)

The asset smoothing method projects an Expected Value of Assets using the assumed rate of investment return, then one-third of the difference between the Expected Value and the Market Value is recognized in the Actuarial Value of Assets. There were no revisions to either the Actuarial Cost Method or the Asset Valuation Method for this actuarial valuation.

#### **VALUATION RESULTS**

CalSTRS contracts for many actuarial services. The current contractor, Milliman, has been the program's actuary since January 15, 2000.

Tables 10–13 provide summaries of the valuation results. The data displayed in Table 10 is as of June 30 of the specified year. Other information, specifically annual payroll amounts, reported in the financial section of this report will generally not be consistent with this data. The reason for this is that the financial data reflects payroll for all individuals who were active during the year, while Table 10 only includes those individuals who are active as of June 30. It does not include those individuals who were active at some point during the year but not as of June 30.

Amounts provided in Table 11 represent the status of the population as of June 30 of the indicated year. The information provided in the Removed From Rolls and Rolls End of Year columns include the application of the annual post-retirement 2 percent not-compounded cost-of-living adjustment.

The data provided for each year end in Table 11 is a snapshot of the population taken following year-end closing for the indicated period. It is likely adjustments will be made subsequent to this closing. No attempt is made to update the data in Table 11 for these adjustments.

Because of the potential for post-closing adjustments that are not updated in Table 11, and for post-retirement adjustments that are included in the individual accounts rather than separately maintained, any update of a prior end-of-year total using additions and deletions from the next year most likely will not equal the total provided for the next year.

The following significant plan changes have taken place during the time depicted in Table 12. These program amendments include:

#### Effective January 1, 2000

 Minimum Guarantee payable to certain benefit recipients with at least 20 years of creditable service, equal to \$15,000, increasing in \$500 increments for each additional year of service to \$20,000 at 30 or more years of credited service.

#### Effective January 1, 2001

- Final compensation based upon the highest average consecutive 12-month period with 25 years of credited service.
- Twenty-five percent of the 8 percent member contributions allocated to the Defined Benefit Supplement Program.
- Longevity Bonus of an additional \$200, \$300 or \$400 per month in Defined Benefit Program benefits with 30, 31 or 32 or more years of credited service.
- An ad hoc minimum guarantee of up to 6 percent, based on the initial benefit plus the simple 2 percent benefit improvement, depending upon the year in which the benefit began. This ad hoc was not initially payable until July 1, 2001.

#### Effective January 1, 2002

- Eliminated education requirements for dependent children receiving a disability or family allowance under Coverage A.
- Defined Benefit Program members who were formerly Cash Balance Benefit Program participants are allowed to purchase their prior Cash Balance Benefit Program service credit.

#### Effective January 1, 2003

- A temporary reduction in the member contribution rates of specified state members of the Defined Benefit Program.
- A change to the basis for calculation of the post-retirement earnings limitation from the increase in the All Urban California Consumer Price Index to the increase in the average earnable salary of active members of the Defined Benefit Program.

#### Effective January 1, 2004

#### Death Before Retirement — Coverage B

 The definition of spouse for purposes of receiving a survivor benefit includes a person married to the member for fewer than 12 months prior to the accidental death of the member or for the period beginning prior to the occurrence of the injury or diagnosis of an illness that resulted in the member's death.

#### **Funding**

 The General Fund contribution to the SBMA was reduced by \$500 million effective for the 2003–04 fiscal year.

#### Effective January 1, 2005

- Recalculated benefits to part-time and adult education community college employees who were members prior to July 1, 1996.
- Expanded eligibility for partial lump-sum benefits.
- Eliminated one-year prohibition on employment in a California public school for members who receive a Retirement Incentive benefit.
- Extended five-year prohibition on employment with a granting employer to Community College and County Office of Education members.

- Existing post-retirement earnings exemption for retired members who fill a vacant administrative position in an emergency situation extended for up to two years.
- Extended retirement date and sunset date for other existing post-retirement earnings exemptions.
- Up to <sup>2</sup>/<sub>10</sub> of one year of unused sick leave service credit to count towards qualifying for one-year final compensation, longevity bonus and other benefit enhancements.

The most recent actuarial valuation of the system (as of June 30, 2006) determined there is an unfunded actuarial obligation for this program. The prior actuarial valuation (as of June 30, 2005) also indicated there was an unfunded actuarial obligation.

With the exception of the actuarial valuations performed as of June 30, 1998, June 30, 2000, June 30, 2004, and June 30, 2006, actuarial valuations are normally performed every two years in odd-numbered years to analyze the sufficiency of the statutory contributions to meet the current and future obligations of the program. By using the actuarial methods and assumptions adopted by the Teachers' Retirement Board, the actuarial valuation provides the best estimate of the program's long-term financing.

Comparing the unfunded actuarial obligation as of two valuation dates does not provide enough information to determine if there were actuarial gains or losses. The correct comparison is between the unfunded actuarial obligation on the valuation date and the expected unfunded actuarial obligation projected from the prior valuation date using the actuarial assumptions in effect for the period of comparison.

Actuarial gains reduce the unfunded actuarial obligation as of the valuation date, and actuarial losses increase the unfunded actuarial obligation. Most actuarial gains and losses are a result of short-term fluctuations in experience or changes in actuarial assumptions. Because of the long-term nature of actuarial assumptions, future patterns of emerging experience may offset these short-term fluctuations.

#### **Independent Actuarial Review**

Actuarial services for the California State Teachers' Retirement System are provided under contract by a qualified independent actuarial firm, with additional review provided by the staff actuary.

The work performed for CalSTRS by the independent actuarial firm may be reviewed by the Bureau of State Audits at the discretion of the Teachers' Retirement Board. Also, through the competitive bid process, the work of a prior actuary will be verified in a subsequent actuarial valuation performed by a new contract actuary. Should the same actuarial firm continue for a period of 10 years, provision is made for an independent review of that firm's work through an actuarial audit completed by another firm. These audit services are acquired using the competitive bid process.

An audit of the 2003 Actuarial Experience Analysis of the Defined Benefit Program was performed by the firm Gabriel, Roeder, Smith and Company. The result of the audit was reported to the Board on May 4, 2005.

An audit of the 2003 Actuarial Valuation of the CalSTRS Defined Benefit Program was performed by the firm Cheiron. The result of the audit was reported to the Board on May 4, 2005.

The current actuarial consultant was retained on January 15, 2005, as a result of the competitive bid process.

# Summary of Defined Benefit Program Provisions

(The following summary and tables were prepared by CalSTRS staff. All information is considered in the June 30, 2006, actuarial valuation.)

#### **NORMAL RETIREMENT**

#### **Eligibility Requirement**

Age 60 with five years of credited service.

#### Benefit

Two percent of final compensation for each year of credited service.

#### **BENEFIT FACTORS**

#### **Credited Service**

For each year of membership, credited service is granted based on the ratio of salary earned to fulltime salary earnable for one position.

No more than one full year of service credit is allowed during any school year; however, the contributions for any service in excess of one year are deposited to the member and employer contribution accounts within the Defined Benefit Supplement Program.

#### **Final Compensation**

For members with 25 years of service, the calculation is based on the highest average annual compensation earnable in a consecutive 12-month period. For members with fewer than 25 years of service, the calculation is based on the average salary earnable for the highest three consecutive years of credited service for one position.

#### Sick Leave Service Credit

Credited service is granted for unused sick leave at the time of retirement. Sick leave service credit of up to 0.2 years of credited service may be used for eligibility for one-year final compensation or to attain the career factor or the longevity bonus.

#### **Career Factor**

If a member has 30 years of credited service, the age factor is increased up to 0.2 percent. However, the maximum age factor is 2.4 percent.

#### **Longevity Bonus**

For members attaining 30 years of service by January 1, 2011, a longevity bonus of \$200 per month is added to the Member-Only Benefit. The bonus is increased to \$300 per month with 31 years of service and \$400 per month with 32 or more years of service.

#### POST-RETIREMENT BENEFIT ADJUSTMENT

#### Benefit Improvement Factor

Two percent simple increase on September 1 following the first anniversary of the effective date of the benefit, applied to all continuing benefits.

#### **IRC SECTION 401(A)(17)**

Compensation is limited under Internal Revenue Code section 401(a)(17) and assumed to increase at the rate of inflation.

#### **IRC SECTION 415**

Benefits are subject to limits imposed under Internal Revenue Code section 415. However, no limits are imposed in the valuation of the Defined Benefit Program in order to address the potential pay-as-you-go funding needs of the Teachers' Replacement Benefits Program Fund.

#### **EARLY RETIREMENT**

#### **Eligibility Requirement**

Age 55 with five years of credited service, or age 50 with 30 years of credited service.

#### **Benefit Reduction**

A  $^{1}/_{2}$  percent reduction in the normal retirement benefit for each full month or partial month the member is younger than age 60, plus a reduction of  $^{1}/_{4}$  percent for each full month or partial month the member is younger than age 55.

#### LATE RETIREMENT

#### **Allowance**

Members continue to earn additional service credit after age 60. The two percent age factor increases by 0.033 percent for each quarter year of age that the member is over age 60, up to a maximum of 2.4 percent.

#### **DEFERRED RETIREMENT**

#### **Allowance**

Any time after satisfying the minimum service requirement, a member may cease active service, leave the accumulated contributions on deposit, and later retire upon attaining the minimum age requirement.

#### **DISABILITY ALLOWANCE — COVERAGE A**

#### **Eligibility Requirement**

Member has five years of credited California service and has not attained age 60, or if a member has earned one year of creditable service and is disabled due to an unlawful act of bodily harm committed by another person while performing creditable service.

#### **Allowance**

Fifty percent of final compensation, regardless of age or service credit.

- or -

Five percent of final compensation for each year of service credit if over age 45 with fewer than 10 years of service credit.

#### Children's Benefit

Ten percent for each eligible dependent child, up to a maximum of 40 percent of final compensation. The increment for each eligible child continues until the child marries or attains age 22.

#### **Offsets**

Allowance, including children's increment, is reduced by disability benefits payable under Social Security, workers' compensation and employer-paid income protection plan.

#### **DISABILITY ALLOWANCE — COVERAGE B**

#### **Eligibility Requirement**

Member has five years of credited California service, or if a member has earned one year of creditable service and is disabled due to an unlawful act of bodily harm committed by another person while performing creditable service.

#### **Allowance**

Fifty percent of final compensation, regardless of age and service credit.

#### Children's Benefit

Ten percent for each eligible child up to four children, for a maximum of 40 percent of final compensation. The increment for each child continues until the child attains age 21, regardless of student, marital or employment status.

#### **Offsets**

The member's allowance is reduced by disability benefits payable under workers' compensation.

#### **DEATH BEFORE RETIREMENT — COVERAGE A**

#### **Eligibility Requirement**

One or more years of service credit for active members or members receiving a disability allowance.

#### **Lump-Sum Payment**

The one-time death benefit recipient receives a \$6,163 lump-sum payment.

#### Allowance

The surviving spouse or registered domestic partner with eligible children will receive a family allowance of 40 percent of final compensation for as long as there is at least one eligible child. An additional 10 percent of final compensation is payable for each eligible child up to a maximum benefit of 90 percent.

If there is no surviving spouse or registered domestic partner, an allowance of 10 percent of final compensation is payable to eligible children up to a maximum benefit of 50 percent.

When there are no eligible children, the spouse or registered domestic partner may elect to receive one-half of a 50 percent joint and survivor allowance projected to age 60 or take a lump-sum payment of the remaining contributions and interest.

#### **DEATH BEFORE RETIREMENT - COVERAGE B**

#### Eligibility

One or more years of service credit for active members.

#### Lump-Sum Payment

The one-time death benefit recipient receives a \$24,652 lump-sum payment.

#### Allowance

A lump-sum payment of the contributions and interest.

- or -

One-half of a 50 percent joint and survivor allowance, beginning on the member's 60<sup>th</sup> birthday or immediately with a reduction based on the member's age and that of the spouse or registered domestic partner at the time the benefit begins.

If the surviving spouse or registered domestic partner elects a monthly allowance, or there is no surviving spouse, each eligible child would receive 10 percent of the member's final compensation, with a maximum benefit of 50 percent.

#### **DEATH AFTER RETIREMENT**

#### Lump-Sum Payment

The one-time death benefit recipient receives a \$6,163 lump-sum payment.

Members of retirement age may make a pre-retirement election of an option to designate a beneficiary.

#### **Annuity Form**

If the retired member had elected one of the joint and survivor options, the retirement benefit would be reduced in accordance with the option selected.

If no option had been elected, payment of the unpaid contributions and interest, if any, remaining in the member's account will be made to the beneficiary, if one is named, or to the deceased member's estate.

#### **TERMINATION FROM CALSTRS**

#### Refund

Refund of the member's contributions with interest as credited to the member's account to date of withdrawal. A refund terminates membership and all rights to future benefits from the system.

#### Re-entry After Refund

Former members who re-enter the system may redeposit all amounts previously refunded plus regular interest. The member must earn one year of credited service after re-entry before becoming eligible for system benefits.

#### **FUNDING**

#### **Member Contribution**

Eight percent of creditable compensation. Two percent of creditable compensation is directed to the Defined Benefit Supplement Program through December 31, 2010, while six percent of creditable compensation remains with the Defined Benefit Program.

#### **Employer Contribution**

Eight percent of the total creditable compensation on which member contributions are based. In addition, funding for the Teachers' Health Benefits Fund and Teachers' Replacement Benefit Fund is directed as needed from the employer contributions on a pay-as-you-go basis.

- plus -

0.25 percent of the total creditable compensation on which members' contributions are based to pay costs for unused sick leave service credit.

#### **State Contribution**

The state pays 2.017 percent of the total creditable compensation of the fiscal year ending in the immediately preceding calendar year upon which members' contributions are based, calculated annually on October 1 and paid in four equal quarterly payments.

- plus -

Up to 1.505 percent of the total creditable compensation of the fiscal year ending in the immediately preceding calendar year upon which members' contributions are based, calculated annually on October 1 and paid in four equal quarterly payments. This contribution is made if there is an unfunded obligation or normal cost deficit for benefits in effect on July 1, 1990.

# Changes in Defined Benefit Program Provisions

Since the last actuarial valuation, program amendments have been made that would affect the next actuarial valuation. The amendments described below were not considered for the June 30, 2006, actuarial valuation as they were effective after that date.

#### Effective January 1, 2007

 Absent a surviving spouse or surviving registered domestic partner, eligible dependent children shall receive the child's portion of the survivor benefit allowance, subject to certain limits.

All of the assumptions used in the actuarial valuation were adopted by the Teachers' Retirement Board when the experience study was adopted on March 4, 2004. Following are the assumptions adopted by the Teachers' Retirement Board for this program.

Table 1 | Post-Retirement Mortality Table for Sample Ages

|     | MALE                      | FEMALE                    |
|-----|---------------------------|---------------------------|
| Age | 1999 CalSTRS<br>Retired-M | 1999 CalSTRS<br>Retired–F |
| 50  | 0.19%                     | 0.12%                     |
| 55  | 0.32                      | 0.19                      |
| 60  | 0.56                      | 0.34                      |
| 65  | 1.02                      | 0.67                      |
| 70  | 1.80                      | 1.18                      |
| 75  | 2.85                      | 1.83                      |
| 80  | 5.02                      | 3.78                      |
| 85  | 9.42                      | 6.50                      |
| 90  | 14.75                     | 11.63                     |
| 95  | 23.36                     | 18.62                     |

Table 2 | Probabilities of Retirement for Sample Ages

|     |       | UNDER<br>30 YEARS |       | OR<br>YEARS |
|-----|-------|-------------------|-------|-------------|
| Age | Male  | Female            | Male  | Female      |
| 55  | 3.0%  | 5.0%              | 6.0%  | 8.0%        |
| 60  | 7.0   | 10.0              | 25.0  | 30.0        |
| 65  | 14.0  | 16.0              | 27.0  | 27.0        |
| 70  | 100.0 | 100.0             | 100.0 | 100.0       |

Table 3 | Probabilities of Withdrawal from Active Service Before Age and Service Retirement for Sample Ages

|          |          | ENTRY AGES |       |       |       |       |  |  |
|----------|----------|------------|-------|-------|-------|-------|--|--|
| Duration | Under 25 | 25-29      | 30-34 | 35-39 | 40-44 | 45+   |  |  |
| Male     |          |            |       |       |       |       |  |  |
| 1        | 12.5%    | 12.5%      | 12.5% | 12.5% | 12.5% | 13.5% |  |  |
| 2        | 7.7      | 7.7        | 7.7   | 7.7   | 7.7   | 8.6   |  |  |
| 3        | 6.3      | 5.4        | 5.4   | 5.4   | 5.4   | 6.3   |  |  |
| 4        | 4.4      | 4.4        | 4.4   | 4.4   | 4.4   | 4.4   |  |  |
| 5        | 3.9      | 3.0        | 3.0   | 3.0   | 3.0   | 3.6   |  |  |
| 10       | 2.0      | 2.0        | 2.0   | 2.0   | 2.4   |       |  |  |
| 15       | 1.1      | 1.1        | 1.1   | 1.2   |       |       |  |  |
| 20       | 0.6      | 0.6        | 0.6   |       |       |       |  |  |
| 25       | 0.5      | 0.5        |       |       |       |       |  |  |
| Female   |          |            |       |       |       |       |  |  |
| 1        | 10.0%    | 10.0%      | 10.0% | 10.0% | 10.0% | 10.0% |  |  |
| 2        | 7.2      | 7.2        | 7.2   | 7.2   | 7.2   | 7.2   |  |  |
| 3        | 6.3      | 6.3        | 5.8   | 5.3   | 4.9   | 4.9   |  |  |
| 4        | 5.8      | 5.8        | 5.4   | 4.9   | 3.9   | 3.0   |  |  |
| 5        | 5.5      | 5.8        | 4.2   | 2.9   | 2.5   | 2.5   |  |  |
| 10       | 2.3      | 2.0        | 1.7   | 1.4   | 1.6   |       |  |  |
| 15       | 1.1      | 0.9        | 1.0   | 0.9   |       |       |  |  |
| 20       | 0.6      | 0.7        | 0.9   |       |       |       |  |  |
| 25       | 0.6      | 0.6        |       |       |       |       |  |  |

Table 3 continued | Probabilities of Refund by Sample Duration of Members and Sample Entry Ages

|          |          |        | ENTRY AGES |        |        |
|----------|----------|--------|------------|--------|--------|
| Duration | Under 25 | 25-29  | 30-34      | 35-39  | 40+    |
| Male     |          |        |            |        |        |
| Under 5  | 100.0%   | 100.0% | 100.0%     | 100.0% | 100.0% |
| 10       | 50.0     | 50.0   | 42.0       | 45.0   | 45.0   |
| 15       | 42.0     | 42.0   | 36.0       | 30.0   |        |
| 20       | 34.0     | 36.0   | 27.0       |        |        |
| 25       | 24.0     | 27.0   |            |        |        |
| Female   |          |        |            |        |        |
| Under 5  | 100.0%   | 100.0% | 100.0%     | 100.0% | 100.0% |
| 10       | 40.0     | 35.0   | 36.0       | 36.0   | 35.0   |
| 15       | 30.0     | 30.0   | 30.0       | 30.0   |        |
| 20       | 25.0     | 20.0   | 20.0       |        |        |
| 25       | 15.0     | 10.0   |            |        |        |

Table 4 | Assumption for Pay Increases Due to Promotions and Longevity for Sample Ages (exclusive of the assumed general wage increase, which includes inflation)

|          | ENTRY AGES |       |       |       |       |      |
|----------|------------|-------|-------|-------|-------|------|
| Duration | Under 25   | 25–29 | 30–34 | 35–39 | 40-44 | 45+  |
| 1        | 5.6%       | 5.3%  | 5.1%  | 4.8%  | 4.8%  | 3.5% |
| 5        | 5.5        | 4.8   | 4.5   | 3.8   | 3.8   | 2.6  |
| 10       | 3.2        | 3.0   | 2.7   | 2.3   | 2.2   | 1.6  |
| 20       | 1.3        | 1.1   | 1.1   | 0.8   | 0.8   | 0.6  |
| 30       | 0.9        | 0.7   | 0.6   | 0.5   |       |      |
| 40       | 0.8        | 0.6   |       |       |       |      |

## Table 5 | Economic Assumptions

| Consumer Price Inflation    | 3.25% |
|-----------------------------|-------|
| Investment Yield            | 8.00  |
| Wage Inflation              | 4.25  |
| Interest on Member Accounts | 6.00  |
| Growth in Active Membership | 0.00  |
| Administrative Expenses     | 0.00* |

<sup>\*</sup> Provided by gross investment return.

# Table 6 | Mortality Assumptions

| RETIRED MEMBERS* |                             |  |  |  |  |
|------------------|-----------------------------|--|--|--|--|
| Male             | 1999 CalSTRS Retired-M      |  |  |  |  |
| Female           | 1999 CalSTRS Retired-F      |  |  |  |  |
|                  | ACTIVE MEMBERS              |  |  |  |  |
| Male             | 1999 CalSTRS Retired-M (-2) |  |  |  |  |
| Female           | 1999 CalSTRS Retired-F (-2) |  |  |  |  |
|                  | BENEFICIARIES*              |  |  |  |  |
| Male             | 1999 CalSTRS Beneficiary-M  |  |  |  |  |
| Female           | 1999 CalSTRS Beneficiary-F  |  |  |  |  |
|                  |                             |  |  |  |  |

<sup>\*</sup> Future retirees and beneficiaries are valued with a 2-year age setback.

#### Table 7 | Termination from Disability Due to Death

| Male   | 1994 GAM-M<br>(Min. 2.5% with select rates in first 3 years) |
|--------|--------------------------------------------------------------|
| Female | 1994 GAM-F<br>(Min. 2.2% with select rates in first 3 years) |

#### Table 8 | Service Retirement (sample ages)

|     |                                        | DB PROGRAM BENEFITS                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                         |
|-----|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Age | 1990<br>Benefits                       | Under<br>30 years                                                                                                                                                                                           | 30 or<br>More Years                                                                                                                                                                                                                                                                                                     |
| 55  | 5.8%                                   | 3.0%                                                                                                                                                                                                        | 6.0%                                                                                                                                                                                                                                                                                                                    |
| 60  | 25.0                                   | 7.0                                                                                                                                                                                                         | 25.0                                                                                                                                                                                                                                                                                                                    |
| 65  | 20.0                                   | 14.0                                                                                                                                                                                                        | 27.0                                                                                                                                                                                                                                                                                                                    |
| 70  | 100.0                                  | 100.0                                                                                                                                                                                                       | 100.0                                                                                                                                                                                                                                                                                                                   |
| 55  | 7.0%                                   | 5.0%                                                                                                                                                                                                        | 8.0%                                                                                                                                                                                                                                                                                                                    |
| 60  | 22.0                                   | 10.0                                                                                                                                                                                                        | 30.0                                                                                                                                                                                                                                                                                                                    |
| 65  | 18.0                                   | 16.0                                                                                                                                                                                                        | 27.0                                                                                                                                                                                                                                                                                                                    |
| 70  | 100.0                                  | 100.0                                                                                                                                                                                                       | 100.0                                                                                                                                                                                                                                                                                                                   |
|     | 55<br>60<br>65<br>70<br>55<br>60<br>65 | Age         Benefits           55         5.8%           60         25.0           65         20.0           70         100.0           55         7.0%           60         22.0           65         18.0 | Age         Benefits         30 years           55         5.8%         3.0%           60         25.0         7.0           65         20.0         14.0           70         100.0         100.0           55         7.0%         5.0%           60         22.0         10.0           65         18.0         16.0 |

 Table 9
 Disability Rates (sample ages)

|        | COVERAGE  | 4      |  |  |
|--------|-----------|--------|--|--|
| Male   | 30 0.030% |        |  |  |
|        | 40        | 0.081  |  |  |
|        | 50        | 0.159  |  |  |
| Female | 30        | 0.030% |  |  |
|        | 40        | 0.090  |  |  |
|        | 50        | 0.220  |  |  |

|        | COVERAGE           | В                   |
|--------|--------------------|---------------------|
|        | Entry Age Under 40 | Entry Age 40 and Up |
| Male   |                    |                     |
| 30     | 0.030%             |                     |
| 35     | 0.051              |                     |
| 40     | 0.120              |                     |
| 45     | 0.150              | 0.118%              |
| 50     | 0.195              | 0.202               |
| 55     | 0.270              | 0.312               |
| Female |                    |                     |
| 30     | 0.030%             |                     |
| 35     | 0.051              |                     |
| 40     | 0.090              |                     |
| 45     | 0.141              | 0.139%              |
| 50     | 0.231              | 0.252               |
| 55     | 0.318              | 0.367               |

Table 10 | Schedule of Active Member Valuation Data

| DATE<br>(AS OF JUNE 30) <sup>1</sup> | NUMBER  | ANNUAL PAYROLL   | ANNUAL<br>AVERAGE PAY | % INCREASE IN AVERAGE PAY |
|--------------------------------------|---------|------------------|-----------------------|---------------------------|
| 2000                                 | 420,530 | \$18,224,271,726 | \$43,336              | 2.5%                      |
| 2001                                 | 428,741 | 20,494,151,991   | 47,801                | 10.3                      |
| 2003 <sup>2</sup>                    | 448,478 | 22,654,369,277   | 50,514                | 5.7                       |
| 2004 <sup>2</sup>                    | 444,680 | 22,589,060,244   | 50,798                | 0.6                       |
| 2005                                 | 450,282 | 23,256,622,046   | 51,649                | 1.7                       |
| 2006                                 | 453,365 | 24,239,606,097   | 53,466                | 3.5                       |

<sup>&</sup>lt;sup>1</sup> No actuarial report is prepared in even-numbered years, except for June 30, 2000, June 30, 2004, and June 30, 2006 reports.

 $<sup>^{2}\,\</sup>mbox{Annual Payroll}$  and Annual Average Pay were revised on an estimated basis to reflect date corrections.

Table 11 | Schedule of Retired Members and Beneficiaries Added to and Removed from Rolls

|                         | ADDED  | TO ROLLS            | ROLLS REMOVED FROM ROLLS |                     | ROLLS – END OF YEAR |                     |            |                                |
|-------------------------|--------|---------------------|--------------------------|---------------------|---------------------|---------------------|------------|--------------------------------|
| Date<br>(as of June 30) | Number | Annual<br>Allowance | Number                   | Annual<br>Allowance | Number              | Annual<br>Allowance | % Increase | Average<br>Annual<br>Allowance |
| 2002                    | 10,516 | \$448,243           | 5,629                    | \$97,482            | 177,072             | \$4,438,853         | 10.8%      | \$25,068                       |
| 2003                    | 12,024 | 514,545             | 5,713                    | 106,693             | 181,868             | 4,876,488           | 9.9        | 26,813                         |
| 2004                    | 13,167 | 558,292             | 5,944                    | 113,075             | 193,245             | 5,497,706           | 12.7       | 28,449                         |
| 2005                    | 12,489 | 519,053             | 5,846                    | 118,053             | 201,241             | 6,018,468           | 9.5        | 29,907                         |
| 2006                    | 11,517 | 489,261             | 6,252                    | 132,275             | 207,846             | 6,505,067           | 8.1        | 31,298                         |
| 2007                    | 12,457 | 562,542             | 6,162                    | 137,474             | 215,641             | 7,078,199           | 8.8        | 32,824                         |

Table 12 | Solvency Test

|                                    | AGGREGATE ACCRUED LIABILITIES FOR (in millions) |                                             |                                                  |                           |        | NG OF LIAB | ILITIES |
|------------------------------------|-------------------------------------------------|---------------------------------------------|--------------------------------------------------|---------------------------|--------|------------|---------|
|                                    | (1)                                             | (2)                                         | (3)                                              |                           |        |            |         |
| *Valuation Date<br>(as of June 30) | Active Member<br>Contributions<br>on Deposit    | Future Benefits<br>to Benefit<br>Recipients | Service Already<br>Rendered by<br>Active Members | Actuarial Value of Assets | (1)    | (2)        | (3)     |
| 2000                               | \$21,337                                        | \$36,238                                    | \$35,549                                         | \$102,225                 | 100.0% | 100.0%     | 125.6%  |
| 2001 <sup>a</sup>                  | 22,661                                          | 41,513                                      | 45,707                                           | 107,654                   | 100.0  | 100.0      | 95.1    |
| 2003 b,c                           | 24,313                                          | 52,128                                      | 51,663                                           | 108,667                   | 100.0  | 100.0      | 62.4    |
| 2004 °                             | 24,442                                          | 58,225                                      | 52,010                                           | 114,094                   | 100.0  | 100.0      | 60.4    |
| 2005                               | 24,619                                          | 63,762                                      | 53,812                                           | 121,882                   | 100.0  | 100.0      | 62.3    |
| 2006                               | 25,124                                          | 68,774                                      | 56,974                                           | 131,237                   | 100.0  | 100.0      | 65.5    |

<sup>\*</sup> No actuarial report is prepared in even-numbered years, except for the June 30, 2000, June 30, 2004, and June 30, 2006 reports. No estimation using actuarial methodology is made in years between valuations.

Effective January 1, 2001, program changed to provide one-year final compensation with 25 years of service, Longevity Bonus with 30 or more years of service, and an ad hoc improvement of up to 6 percent monthly, depending upon benefit effective date.

<sup>&</sup>lt;sup>b</sup> Effective January 1, 2002, program changed to direct 25 percent of the 8 percent member contributions to the Defined Benefit Supplement Program.

Service Already Rendered by Active Members was revised on an estimated basis to reflect data corrections.

Table 13 | Analysis of Financial Experience

(gains and losses in unfunded actuarial obligation resulting from differences between assumed and actual experience) (dollars in millions)

|                                                | ACTUARIAL VALUATION AS OF JUNE 30 |
|------------------------------------------------|-----------------------------------|
|                                                | <b>2006</b> (2005)                |
| Actuarial Obligation at June 30:               | \$142,193                         |
| Normal Cost                                    | 4,202                             |
| Benefit Payments                               | (6,417)                           |
| Expected Interest                              | 11,289                            |
| Expected Actuarial Obligation at June 30:      | 151,267                           |
| Expected Actuarial Value of Assets at June 30: | 129,149                           |
| Expected UAO at June 30                        | 22,118                            |
| Actuarial (Gains) or Losses                    |                                   |
| Change in Assumptions                          | -                                 |
| Investment Return Assumptions                  | (2,857)                           |
| Demographic Assumptions                        | (365)                             |
| Net Change Other Sources                       | 739                               |
| Total Actuarial (Gains) & Losses               | (2,483)                           |
| Unfunded Actuarial Obligation at June 30       | \$19,635                          |
| Funded Ratio                                   | 87%                               |

#### **ACTUARIAL**

# **DEFINED BENEFIT SUPPLEMENT PROGRAM**

**ACTUARY'S CERTIFICATION LETTER** 



111 SW Fifth Avenue Suite 3700 Portland, OR 97204

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January 16, 2008

Teachers' Retirement Board California State Teachers' Retirement System

Re: Valuation of the Defined Benefit Supplement Program

Dear Members of the Board:

We have performed an actuarial valuation of the Defined Benefit Supplement Program of the California State Teachers' Retirement System as of June 30, 2006. Our findings indicate the projected income stream from contributions will be sufficient to pay the Normal Costs. The DBS Program had an Actuarial Surplus of \$423,269,000 as of June 30, 2006. The Board allocated \$88,201,000 for Additional Earnings Credits and Additional Annuity Credits and the remaining \$335,068,000 was retained as a reserve for potential future Additional Earnings Credits or Additional Annuity Credits.

Actuarial valuations are performed as of June 30 of each year.

In preparing the 2006 valuation, we relied upon the financial information and membership data furnished by the System. Although we did not audit this data, we compared the data for this and the prior valuation and tested for reasonableness. Based on these tests, we believe the data to be sufficiently accurate for the purposes of our calculations. It should be noted that if any data or other information is inaccurate or incomplete, our calculations may need to be revised.

Milliman did not prepare Schedules I and II, nor the summary of actuarial methods and assumptions in Schedule II of the Financial Section, nor the information included in this Actuarial Section of the 2007 Comprehensive Annual Financial Report. However, the actuarial information contained in Schedule I of the Financial Section and in this Actuarial Section was derived from our June 30, 2006 actuarial valuation report.

The Teachers' Retirement Board has sole authority to determine the actuarial assumptions and methods used for the DBS Program. The Board adopted all of the actuarial methods and assumptions used in the 2006 valuation.

The findings have been determined according to actuarial assumptions and methods that were chosen on the basis of recent experience of the DBS Program and of current expectations concerning future economic conditions. In our opinion, the assumptions used in the actuarial valuation are appropriate for purposes of the valuation, are internally consistent, and reflect reasonable expectations. The assumptions represent our best estimate of future conditions affecting the DBS Program. Nevertheless, the emerging costs of the DBS Program will vary

#### ACTUARY'S CERTIFICATION LETTER, CONTINUED



Teachers' Retirement Board January 16, 2008 Page 2

from those presented in this report to the extent that actual experience differs from that projected by the assumptions.

I certify that the information included in this report is complete and accurate to the best of my knowledge and belief. The actuarial valuation was prepared in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the applicable Standards of Practice adopted by the Actuarial Standards Board of the American Academy of Actuaries. In addition, the assumptions and methods used meet the parameters set for disclosures by Statement No. 25 of the Governmental Accounting Standards Board.

Milliman has been engaged by CalSTRS as an independent actuary. The undersigned is a Fellow of the Society of Actuaries, a Member of the American Academy of Actuaries, an Enrolled Actuary, and experienced in performing valuations for large public employee retirement systems.

In conclusion, based on the current actuarial assumptions, the DBS Program of the California State Teachers' Retirement System is an actuarially sound program.

Respectfully submitted,

Mark O. Johnson, F.S.A., M.A.A.A., E.A. Principal and Consulting Actuary

# Summary of Actuarial Assumptions and Methods

CalSTRS, through its consulting actuary, will perform an experience study at least every four years to determine appropriate demographic and economic assumptions. These assumptions are then applied every year when the consulting actuary performs an actuarial valuation to monitor the funding status of the Defined Benefit Supplement Program. The most recent actuarial valuation was completed June 30, 2006, and adopted by the Teachers' Retirement Board June 7, 2007. The following summary and tables were prepared by CalSTRS staff. All information is considered in the June 30, 2006, actuarial valuation.

The Defined Benefit Supplement Program was established January 1, 2001 and, therefore, has not yet existed for a sufficient period of time to allow completion of the first experience study. The economic and demographic assumptions were based on those adopted for the Defined Benefit Program by the Board on March 4, 2004, and used to complete the latest actuarial valuation. The Defined Benefit Program and Defined Benefit Supplement Program share the same population, so it is reasonable to use most of the same assumptions for both programs. All of the assumptions used in the actuarial valuation were adopted by the Teachers' Retirement Board when the experience study was adopted on March 4, 2004. Following are the assumptions adopted by the Teachers' Retirement Board for this program.

- Investment return rate is 8.00 percent.
- Method used to value plan assets for actuarial valuation purposes: Fair market value.
- Assumption for general wage increase is 4.25 percent, of which 3.25 percent is due to inflation and 1.00 percent is due to expected gains in productivity.
- The actuarial cost method used by the program is the traditional unit credit cost method.
- The Defined Benefit Supplement Program does not provide cost-of-living adjustments for benefit recipients.

#### **DISCUSSION OF RECENT CHANGES IN:**

The nature of the program—The Defined Benefit Supplement Program is a relatively new program, established January 1, 2001. All provisions of the program were considered when completing the most recent actuarial valuation.

**Actuarial assumptions**—The following assumptions were used to complete the valuation for this program.

Neither the economic nor the demographic assumptions for the actuarial valuation as of June 30, 2006, affected the unfunded actuarial obligation. Those assumptions for this program will have minimal impact under the traditional unit credit cost method or only have significance when participants elect to annuitize the account balance. Under the program, a member must have at least \$3,500 in his or her account to elect to annuitize the account balance.

#### **ACTUARIAL METHODS**

Actuarial Cost Method Traditional Unit Credit

Asset Valuation Method Fair Market Value

The actuarial methods used for the program's actuarial valuation as of June 30, 2006, result in an actuarial surplus of \$335,068,000.

CalSTRS contracts for many actuarial services. The current contractor, Milliman, has been CalSTRS' actuary since January 15, 2000.

There are no other specific assumptions that have a material impact on valuation results for this program.

# **Independent Actuarial Review**

Actuarial services for the California State Teachers' Retirement System are provided under contract by a qualified independent actuarial firm, with additional review provided by the staff actuary.

The work performed for CalSTRS by the independent actuarial firm may be reviewed by the Bureau of State Audits at the discretion of the Teachers' Retirement Board. Also, through the competitive bid process, the work of a prior actuary will be verified in a subsequent actuarial valuation performed by a new contract actuary. Should the same actuarial firm continue for a period of 10 years, provision is made for an independent review of that firm's work through an actuarial audit completed by another firm. These audit services are acquired using the competitive bid process.

The current actuarial consultant was retained on January 15, 2005, as a result of the competitive bid process.

# Summary of Defined Benefit Supplement Program Provisions

(The following tables and summary were prepared by CalSTRS staff. All information is considered in the June 30, 2006, actuarial valuation.)

#### **MEMBERSHIP**

#### **Eligibility Requirement**

All members of the Defined Benefit Program who perform creditable service and earn creditable compensation after December 31, 2000, have a Defined Benefit Supplement account.

#### Member

An eligible employee with creditable service subject to coverage, who has contributions credited in the program or is receiving an annuity from the program.

#### **ACCOUNT BALANCE**

#### **Account Balance**

Nominal accounts are established for the purpose of determining DBS benefits payable to the member. Accounts are credited with contributions, interest at the minimum interest rate, and, if applicable, additional earnings credits.

#### Contributions

One-quarter of the 8 percent (2 percent) of member contributions on creditable compensation is allocated to the member's DBS account through December 31, 2010.

In addition, member and employer contributions will be credited to the member's DBS account for service greater that one year and compensation for limited-term enhancements and retirement incentives.

#### Minimum Interest Rate

Annual rate determined for the plan year by the Teachers' Retirement Board in accordance with federal laws and regulations. The minimum interest rate is equal to the average of the yields on 30-year Treasury Notes for the twelve months ending in February preceding the beginning of the plan year, rounded to the next highest 0.25 percent. The minimum interest rate is not less than the rate at which interest is credited under the Defined Benefit Program.

#### Additional Earnings Credit

Annual rate determined for the plan year by the Teachers' Retirement Board based on the actual earnings during the plan year but only to the extent the earnings are sufficient to credit the minimum interest rate and provide any additions to the gain and loss reserve deemed warranted by the board.

#### **Additional Annuity Credit**

Annual rate determined for the plan year by the Teachers' Retirement Board based on the actual earnings during the plan year, but only to the extent the earnings are sufficient to credit the minimum interest rate and provide any additions to the gain and loss reserve deemed warranted by the Board.

#### **NORMAL RETIREMENT**

#### **Eligibility Requirement**

Receipt of a corresponding benefit under the Defined Benefit Program.

#### Benefit

The account balance at the benefit effective date subject to limits imposed under Internal Revenue Code section 415.

#### Form of Payment

The normal form of payment is a lump-sum distribution. Annuity options are available if the account balance is at least \$3,500.

#### **EARLY RETIREMENT**

Eligibility Requirement
Same as Normal Retirement.

**Benefit and Form of Payment**Same as Normal Retirement.

#### LATE RETIREMENT

**Benefit and Form of Payment** Same as Normal Retirement.

Contributions and earnings may continue to be credited to the account balance.

#### **DEFERRED RETIREMENT**

#### Benefit

A member must receive a DBS benefit when the corresponding benefit is received under the Defined Benefit Program.

#### **DISABILITY BENEFIT**

#### **Eligibility Requirement**

Receipt of a corresponding benefit under the DB Program.

#### Benefit

The account balance at the date the disability benefit becomes payable.

#### Form of Payment

Same as Normal Retirement. An annuity benefit is discontinued upon termination of the corresponding DB Program benefit.

#### **DEATH BEFORE RETIREMENT**

#### **Eligibility Requirement**

Deceased member has an account balance.

#### Benefit

The account balance at the date of death payable to the designated beneficiary.

#### Form of Payment

Similar to Normal Retirement.

#### **DEATH AFTER RETIREMENT**

#### **Eligibility Requirement**

The deceased member was receiving an annuity.

#### **Benefit**

According to the terms of the annuity elected by the member.

#### **TERMINATION FROM THE PROGRAM**

#### **Eligibility Requirement**

Termination of all CalSTRS-covered employment.

More than five years has elapsed since the most recent termination benefit, if any, has been paid.

#### Benefit and Form of Payment

Lump-sum distribution of the account balance as of the date of distribution.

# Changes in Defined Benefit Supplement Program Provisions

There have been no program amendments that would affect an actuarial valuation of the Defined Benefit Supplement Program since the last CalSTRS annual financial report was issued. All program provisions were considered in the completion of the June 30, 2006, actuarial valuation.

All of the assumptions used in the actuarial valuation were adopted by the Teachers' Retirement Board when the experience study was adopted on March 4, 2004. Following are the assumptions adopted by the Teachers' Retirement Board for this program.

Table 1 | Post-Retirement Mortality Table for Sample Ages

|     | MALE                      | FEMALE                    |
|-----|---------------------------|---------------------------|
| Age | 1999 CalSTRS<br>Retired-M | 1999 CalSTRS<br>Retired-F |
| 50  | 0.19%                     | 0.12%                     |
| 55  | 0.32                      | 0.19                      |
| 60  | 0.56                      | 0.34                      |
| 65  | 1.02                      | 0.67                      |
| 70  | 1.80                      | 1.18                      |
| 75  | 2.85                      | 1.83                      |
| 80  | 5.02                      | 3.78                      |
| 85  | 9.42                      | 6.50                      |
| 90  | 14.75                     | 11.63                     |
| 95  | 23.36                     | 18.62                     |

Table 2 | Probabilities of Retirement for Sample Ages

|       | UNDER<br>30 YEARS                   |                                                       | OR<br>YEARS                                                                                                                                                                                |
|-------|-------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Male  | Female                              | Male                                                  | Female                                                                                                                                                                                     |
| 3.0%  | 5.0%                                | 6.0%                                                  | 8.0%                                                                                                                                                                                       |
| 7.0   | 10.0                                | 25.0                                                  | 30.0                                                                                                                                                                                       |
| 14.0  | 16.0                                | 27.0                                                  | 27.0                                                                                                                                                                                       |
| 100.0 | 100.0                               | 100.0                                                 | 100.0                                                                                                                                                                                      |
|       | 30 Y<br>Male<br>3.0%<br>7.0<br>14.0 | 30 YEARS  Male Female  3.0% 5.0%  7.0 10.0  14.0 16.0 | 30 YEARS         MORE           Male         Female         Male           3.0%         5.0%         6.0%           7.0         10.0         25.0           14.0         16.0         27.0 |

Table 3 | Probabilities of Withdrawal from Active Service Before Age and Service Retirement for Sample Ages

|          |          |       | ENTRY | AGES  |       |       |
|----------|----------|-------|-------|-------|-------|-------|
| Duration | Under 25 | 25–29 | 30–34 | 35–39 | 40–44 | 45+   |
| Male     |          |       |       |       |       |       |
| 1        | 12.5%    | 12.5% | 12.5% | 12.5% | 12.5% | 13.5% |
| 2        | 7.7      | 7.7   | 7.7   | 7.7   | 7.7   | 8.6   |
| 3        | 6.3      | 5.4   | 5.4   | 5.4   | 5.4   | 6.3   |
| 4        | 4.4      | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   |
| 5        | 3.9      | 3.0   | 3.0   | 3.0   | 3.0   | 3.6   |
| 10       | 2.0      | 2.0   | 2.0   | 2.0   | 2.4   |       |
| 15       | 1.1      | 1.1   | 1.1   | 1.2   |       |       |
| 20       | 0.6      | 0.6   | 0.6   |       |       |       |
| 25       | 0.5      | 0.5   |       |       |       |       |
| 30       | 0.0      |       |       |       |       |       |
| Female   |          |       |       |       |       |       |
| 1        | 10.0%    | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% |
| 2        | 7.2      | 7.2   | 7.2   | 7.2   | 7.2   | 7.2   |
| 3        | 6.3      | 6.3   | 5.8   | 5.3   | 4.9   | 4.9   |
| 4        | 5.8      | 5.8   | 5.4   | 4.9   | 3.9   | 3.0   |
| 5        | 5.5      | 5.8   | 4.2   | 2.9   | 2.5   | 2.5   |
| 10       | 2.3      | 2.0   | 1.7   | 1.4   | 1.6   |       |
| 15       | 1.1      | 0.9   | 1.0   | 0.9   |       |       |
| 20       | 0.6      | 0.7   | 0.9   |       |       |       |
| 25       | 0.6      | 0.6   |       |       |       |       |
| 30       | 0.0      |       |       |       |       |       |

Table 4 | Assumption for Pay Increases Due to Promotions and Longevity for Sample Ages (exclusive of the assumed general wage increase, which includes inflation)

|          |             |       | ENTRY | AGES  |       |      |
|----------|-------------|-------|-------|-------|-------|------|
| Duration | Under<br>25 | 25–29 | 30–34 | 35–39 | 40–44 | 45+  |
| 1        | 5.6%        | 5.3%  | 5.1%  | 4.8%  | 4.8%  | 3.5% |
| 10       | 3.2         | 3.0   | 2.7   | 2.3   | 2.2   | 1.6  |
| 20       | 1.3         | 1.1   | 1.1   | 0.8   | 0.8   | 0.6  |
| 30       | 0.9         | 0.7   | 0.6   | 0.5   |       |      |

Table 5 | Economic Assumptions

| Consumer Price Inflation    | 3.25% |
|-----------------------------|-------|
| Investment Yield            | 8.00  |
| Wage Inflation              | 4.25  |
| Interest on Member Accounts | 8.00  |

 Table 6
 Mortality Assumptions

Table 8 | Service Retirement (sample ages)

|        | RETIRED MEMBERS*            |
|--------|-----------------------------|
| Male   | 1999 CalSTRS Retired-M      |
| Female | 1999 CalSTRS Retired-F      |
|        | ACTIVE MEMBERS              |
| Male   | 1999 CalSTRS Retired-M (-2) |
| Female | 1999 CalSTRS Retired-F (-2) |
|        | BENEFICIARIES*              |
| Male   | 1999 CalSTRS Beneficiary-M  |
| Female | 1999 CalSTRS Beneficiary-F  |
|        |                             |

|        | Age | Under 30 years | 30 or More Years |
|--------|-----|----------------|------------------|
| Male   | 55  | 3.0%           | 6.0%             |
|        | 60  | 7.0            | 25.0             |
|        | 65  | 14.0           | 27.0             |
|        | 70  | 100.0          | 100.0            |
| Female | 55  | 5.0%           | 8.0%             |
|        | 60  | 10.0           | 30.0             |
|        | 65  | 16.0           | 27.0             |
|        | 70  | 100.0          | 100.0            |

<sup>\*</sup>Future retirees and beneficiaries are valued with a 2-year age setback.

Table 7 | Termination from Disability Due to Death

| Male   | 1994 GAM-M (Min. 2.5% with select rates in first 3 years) |
|--------|-----------------------------------------------------------|
| Female | 1994 GAM-F (Min. 2.2% with select rates in first 3 years) |

Table 9 | Disability Rates (sample ages)

|        | Age | Entry Age Under 40 | Entry Age 40 and Up |
|--------|-----|--------------------|---------------------|
| Male   | 25  | 0.021%             |                     |
|        | 30  | 0.030              |                     |
|        | 35  | 0.051              |                     |
|        | 40  | 0.120              |                     |
|        | 45  | 0.150              | 0.118%              |
|        | 50  | 0.195              | 0.202               |
|        | 55  | 0.270              | 0.312               |
|        | 60  | 0.195              | 0.477               |
|        | 65  | 0.120              | 0.853               |
| Female | 25  | 0.030%             |                     |
|        | 30  | 0.030              |                     |
|        | 35  | 0.051              |                     |
|        | 40  | 0.090              |                     |
|        | 45  | 0.141              | 0.139%              |
|        | 50  | 0.231              | 0.252               |
|        | 55  | 0.318              | 0.367               |
|        | 60  | 0.243              | 0.530               |
|        | 65  | 0.168              | 0.916               |

Table 10 | Schedule of Active Member Valuation Data

| DATE<br>(AS OF JUNE 30) | NUMBER  | ANNUAL<br>PAYROLL | ANNUAL<br>AVERAGE PAY | % INCREASE IN<br>AVERAGE PAY |
|-------------------------|---------|-------------------|-----------------------|------------------------------|
| 2001                    | 428,741 | \$20,494,152,000  | \$47,801              | na                           |
| 2002                    | 442,208 | 21,731,775,000    | 49,144                | 2.810%                       |
| 2003                    | 447,620 | 23,867,428,000    | 53,321                | 8.499                        |
| 2004                    | 444,316 | 23,764,350,000    | 53,485                | 0.309                        |
| 2005                    | 449,773 | 24,481,444,000 1  | 54,431                | 1.768                        |
| 2006                    | 453,131 | 25,524,878,188 1  | 56,330                | 3.489                        |

The Defined Benefit Supplement Program was established January 1, 2001. The first actuarial valuation was conducted for the program as of June 30, 2002; however an actuarial study was performed as of June 30, 2001.

Table 11 | Schedule of Retired Members and Beneficiaries Added to and Removed from Annuity Rolls

|                            | ADDED TO ROLLS     |                      | REMOVED FROM ROLLS |                      | ROLLS - END OF YEAR |                      |            |                              |
|----------------------------|--------------------|----------------------|--------------------|----------------------|---------------------|----------------------|------------|------------------------------|
| Date<br>(as of<br>June 30) | Number             | Annual<br>Allowances | Number             | Annual<br>Allowances | Number              | Annual<br>Allowances | % Increase | Average Annual<br>Allowances |
| 2003                       | 0                  | \$0                  | 0                  | \$0                  | 0                   | \$0                  | 0%         | \$0                          |
| 2004                       | 1,929              | 2,143,745            | 2                  | 3,450                | 1,927               | 2,140,295            | 100        | 1,110                        |
| 2005                       | 2,951 <sup>1</sup> | 4,765,404 1          | 18 1               | 29,192 1             | 5,477               | 7,624,364            | 256        | 1,392                        |
| 2006                       | 4,067 1            | 7,984,912 1          | 363 <sup>1</sup>   | 588,458 <sup>1</sup> | 9,302               | 15,183,661           | 99         | 1,632                        |
| 2007                       | 4,841              | 11,483,366           | 651                | 1,405,165            | 13,561              | 25,387,837           | 67         | 1,872                        |

The Defined Benefit Supplement Program was established January 1, 2001. As of June 30, 2003, all members who had retired or became disabled had elected a lump-sum distribution.

Table 12 | Solvency Test

|                                   | FUNDING OF LIABILITIES                               |                                                    |                                                         |                              |       |        |     |
|-----------------------------------|------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------|------------------------------|-------|--------|-----|
| Valuation Date<br>(as of June 30) | (1)<br>Active Member-<br>Contributions<br>on Deposit | (2)<br>Future Benefits<br>to Benefit<br>Recipients | (3)<br>Service Already<br>Rendered by<br>Active Members | Actuarial Value<br>of Assets | (1)   | (2)    | (3) |
| 2001                              | \$213,169,000                                        | \$0                                                | \$0                                                     | \$206,916,000                | 97.0% | na     | na  |
| 2002                              | 711,440,000                                          | 0                                                  | 0                                                       | 660,148,000                  | 93.0  | na     | na  |
| 2003                              | 1,358,635,000                                        | 0                                                  | 0                                                       | 1,311,269,000                | 97.0  | na     | na  |
| 2004                              | 2,025,400,000                                        | 9,652,000                                          | 0                                                       | 2,203,682,000                | 100.0 | 100.0% | na  |
| 2005                              | 2,722,432,000                                        | 33,767,000                                         | 0                                                       | 3,023,177,000                | 100.0 | 100.0  | na  |
| 2006                              | 3,546,575,000                                        | 69,684,000                                         | 0                                                       | 3,951,327,000                | 100.0 | 100.0  | na  |

The Defined Benefit Supplement Program was established January 1, 2001. The first actuarial valuation was conducted for the program as of June 30, 2002; however an actuarial study was performed as of June 30, 2001.

<sup>&</sup>lt;sup>1</sup> Annual payroll includes limited term enhancement and extra service credit pay which is different from covered payroll in Schedule I of the Schedule of Funding Progress in the RSI.

<sup>&</sup>lt;sup>1</sup> Revised in 2007

Table 13 | Analysis of Financial Experience

|                                                          | ACTUARIAL VALUATION AS OF JUNE 30 |                    |  |
|----------------------------------------------------------|-----------------------------------|--------------------|--|
|                                                          | <b>2006</b> (2005)                | <b>2005</b> (2004) |  |
| Actuarial Obligation at June 30                          | \$2,756,199,000                   | \$2,035,052,000    |  |
| Expected Changes:                                        |                                   |                    |  |
| Contributions                                            | 703,104,000                       | 669,706,000        |  |
| Benefits Paid                                            | (112,029,000)                     | (84,025,000)       |  |
| Expected Earnings/Credits                                | 244,139,000                       | 186,231,000        |  |
| Expected Actuarial Obligation at June 30                 | 3,591,413,000                     | 2,806,964,000      |  |
| Expected Actuarial Value of Assets at June 30            | 3,879,749,000                     | 2,989,085,000      |  |
| Expected UAO at June 30                                  | (288,336,000)                     | (182,121,000)      |  |
| Actuarial (Gains) or Losses                              |                                   |                    |  |
| (Gain) on Actuarial Obligation                           | (63,355,000)                      | (50,765,000)       |  |
| (Gain) on Assets                                         | (71,578,000)                      | (34,092,000)       |  |
| Total Actuarial Gains & Losses                           | (134,933,000)                     | (84,857,000)       |  |
| Additional Earnings and Annuity Credits                  |                                   |                    |  |
| Additional Earnings Credit                               | 86,284,000                        | -                  |  |
| Additional Annuity Credit                                | 1,917,000                         | -                  |  |
| Total Additional Earnings and Annuity Credits            | 88,201,000                        | -                  |  |
| Unfunded Actuarial Obligation (Surplus) at June 30, 2006 | (\$335,068,000)                   | (\$266,978,000)    |  |
| Funded Ratio                                             | 109%                              | 110%               |  |

#### **ACTUARIAL**

# CASH BALANCE BENEFIT PROGRAM

**ACTUARY'S CERTIFICATION LETTER** 



111 SW Fifth Avenue Suite 3700 Portland, OR 97204

Tel +1 503 227 0634 Fax +1 503 227 7956 milliman.com

January 16, 2008

Teachers' Retirement Board California State Teachers' Retirement System

Re: Valuation of the Cash Balance Benefit Program

Dear Members of the Board:

We have performed an actuarial valuation of the Cash Balance Benefit Program of the California State Teachers' Retirement System as of June 30, 2006. Our findings indicate the projected income stream from contributions will be sufficient to pay the Normal Costs. The CBB Program had an Actuarial Surplus of \$6,641,000 as of June 30, 2006. The Board allocated \$733,000 for Additional Earnings Credits and Additional Annuity Credits and the remaining \$5,908,000 was retained as a reserve for potential future Additional Earnings Credits or Additional Annuity Credits..

Actuarial valuations are performed as of June 30 of each year.

In preparing the 2006 valuation, we relied upon the financial information and membership data furnished by the System. Although we did not audit this data, we compared the data for this and the prior valuation and tested for reasonableness. Based on these tests, we believe the data to be sufficiently accurate for the purposes of our calculations. It should be noted that if any data or other information is inaccurate or incomplete, our calculations may need to be revised.

Milliman did not prepare Schedules I and II, nor the summary of actuarial methods and assumptions in Schedule II of the Financial Section, nor the information included in this Actuarial Section of the 2007 Comprehensive Annual Financial Report. However, the actuarial information contained in Schedule I of the Financial Section and in this Actuarial Section was derived from our June 30, 2006 actuarial valuation report.

The Teachers' Retirement Board has sole authority to determine the actuarial assumptions and methods used for the CBB Program. The Board adopted all of the actuarial methods and assumptions used in the 2006 valuation.

The findings have been determined according to actuarial assumptions and methods that were chosen on the basis of recent experience of the CBB Program and of current expectations concerning future economic conditions. In our opinion, the assumptions used in the actuarial valuation are appropriate for purposes of the valuation, are internally consistent, and reflect reasonable expectations. The assumptions represent our best estimate of future conditions affecting the CBB Program. Nevertheless, the emerging costs of the CBB Program will vary

#### ACTUARY'S CERTIFICATION LETTER, CONTINUED



Teachers' Retirement Board January 16, 2008 Page 2

from those presented in this report to the extent that actual experience differs from that projected by the assumptions.

I certify that the information included in this report is complete and accurate to the best of my knowledge and belief. The actuarial valuation was prepared in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the applicable Standards of Practice adopted by the Actuarial Standards Board of the American Academy of Actuaries. In addition, the assumptions and methods used meet the parameters set for disclosures by Statement No. 25 of the Governmental Accounting Standards Board.

Milliman has been engaged by CalSTRS as an independent actuary. The undersigned is a Fellow of the Society of Actuaries, a Member of the American Academy of Actuaries, an Enrolled Actuary, and experienced in performing valuations for large public employee retirement systems.

In conclusion, based on the current actuarial assumptions, the CBB Program of the California State Teachers' Retirement System is an actuarially sound program.

Respectfully submitted,

Mark O Johnson, F.S.A., M.A.A.A., E.A.

Principal and Consulting Actuary

# CASH BALANCE BENEFIT PROGRAM

# Summary of Actuarial Assumptions and Methods

CalSTRS, through its consulting actuary, will perform an experience study at least every four years to determine appropriate demographic and economic assumptions. These assumptions are then applied every year when the consulting actuary performs an actuarial valuation to monitor the funding status of the Cash Balance Benefit Program. The most recent actuarial valuation was completed as of June 30, 2006, and adopted by the Teachers' Retirement Board June 7, 2007. The following summary and tables were prepared by CalSTRS staff. All information is considered in the June 30, 2006, actuarial valuation.

The Cash Balance Benefit Program was established July 1, 1996. The most recent experience study of the program was completed June 30, 2003. The experience study was adopted by the Teachers' Retirement Board on March 4, 2004, and used to complete the latest actuarial valuation. All of the assumptions used in the actuarial valuation were adopted by the Teachers' Retirement Board when the experience study was adopted on March 4, 2004. Following are the assumptions adopted by the Teachers' Retirement Board for this program.

- Investment return rate is 8.00 percent.
- Method used to value plan assets for actuarial valuation purposes: Fair market value.

- Assumption for general wage increase is 4.25 percent, of which 3.25 percent is due to inflation and 1.00 percent is due to expected gains in productivity.
- The actuarial cost method used by the program is the traditional unit credit cost method.
- The Cash Balance Benefit Program does not provide cost-of-living adjustments for benefit recipients.

#### **DISCUSSION OF RECENT CHANGES IN:**

The nature of the program—The Cash Balance Benefit Program is a relatively new program, established July 1, 1996. Since the last experience study as of June 30, 2003, program amendments have been made that have affected the June 30, 2006 actuarial valuation.

These program amendments include:

#### Effective January 1, 2006

- The one-year waiting period for the receipt of termination benefits is reduced to six months.
- Extends eligibility to members hired by a community college district to perform creditable service on a part-time or temporary basis (semester to semester), or for not more than 60 percent of the hours per week considered a regular full-time assignment.

**Actuarial assumptions**—The following assumptions were used to complete the valuation for this program.

#### **CASH BALANCE BENEFIT PROGRAM**

Neither the economic nor the demographic assumptions for the actuarial valuation as of June 30, 2006, affected the actuarial surplus. Those assumptions for this program will have minimal impact under the traditional unit credit cost method or only have significance when participants elect to annuitize the account balance. Under the program, a participant must have at least \$3,500 in his or her account to elect to annuitize the account balance.

#### **Actuarial Methods**

Actuarial Cost Method Traditional Unit

Credit

Asset Valuation Method Fair Market Value

The actuarial methods used for the program's actuarial valuation as of June 30, 2006, result in an actuarial surplus of \$5,908,000.

CalSTRS contracts for many actuarial services. The current contractor, Milliman, has been CalSTRS' actuary since January 15, 2000.

There are no other specific assumptions that have a material impact on valuation results for this program.

# **Independent Actuarial Review**

Actuarial services for the California State Teachers' Retirement System are provided under contract by a qualified independent actuarial firm, with additional review provided by the staff actuary.

The work performed for CalSTRS by the independent actuarial firm may be reviewed by the Bureau of State Audits at the discretion of the Teachers' Retirement Board. Also, through the competitive bid process, the work of a prior actuary will be verified in a subsequent actuarial valuation performed by a new contract actuary.

Should the same actuarial firm continue for a period of 10 years, provision is made for an independent review of that firm's work through an actuarial audit completed by another firm. These audit services are acquired using the competitive bid process.

The current actuarial consultant was retained on January 15, 2000, as a result of the competitive bid process.

# Summary of Cash Balance Benefit Program Provisions

(The following tables and summary were prepared by CalSTRS staff. All information is considered in the June 30, 2006, actuarial valuation.)

#### **MEMBERSHIP**

#### **Eligibility Requirement**

Membership if employed at less than 50 percent of a full-time position for a California school district, community college district or county office of education that has elected to offer the Cash Balance Benefit Program.

#### **Participant**

An eligible employee with creditable service subject to coverage who has contributions credited in the program or is receiving an annuity from the program.

#### **ACCOUNT BALANCE**

#### **Account Balance**

Nominal accounts established for the purpose of determining benefits payable to the participant. Accounts are credited with contributions, minimum interest rate and additional earnings credits.

#### Contributions

Generally, participant contributions are four percent of salary and employer contributions are four percent of salary.

Rules for contribution rates may differ for participants covered by a collective bargaining agreement, but the sum of the participant and employer contributions must equal or exceed 8 percent of salary, and in no event can the employer contribution rate be less than 4 percent of salary.

The Teachers' Retirement Board may adjust employer contributions for a fixed number of years, but the adjustment shall not exceed 0.25 percent of salaries in any plan year.

### Minimum Interest Rate

Annual rate determined for the plan year by the Teachers' Retirement Board in accordance with federal laws and regulations. The minimum interest rate is equal to the average of the yields on 30-year Treasury Notes for the 12 months ending in February preceding the beginning of the plan year, rounded to the next highest 0.25 percent.

### Additional Earnings Credit

Annual rate determined for the plan year by the Teachers' Retirement Board based on the actual earnings during the plan year, but only to the extent the earnings are sufficient to credit the minimum interest rate and provide any additions to the gain and loss reserve deemed warranted by the Board.

### **Additional Annuity Credit**

Annual rate determined for the plan year by the Teachers' Retirement Board based on the actual earnings during the plan year, but only to the extent the earnings are sufficient to credit the Minimum Interest Rate and provide any additions to the Gain and Loss Reserve deemed warranted by the Board.

### **NORMAL RETIREMENT**

Eligibility Requirement Age 60.

### Benefit

The account balance at the retirement date subject to limits imposed under Internal Revenue Code section 415.

### Form of Payment

The normal form of payment is a lump-sum distribution. Annuity options are available if the sum of the employer and employee accounts equals or exceeds \$3,500.

### **EARLY RETIREMENT**

Eligibility Requirement Age 55.

### Benefit and Form of Payment

Same as Normal Retirement.

### LATE RETIREMENT

### Benefit and Form of Payment

Same as Normal Retirement. Contibutions and interest continue to be credited to the account balances until distributed.

### **DEFERRED RETIREMENT**

### Benefit

A participant may cease active service, leave the accumulated account balance on deposit and later retire upon attaining the minimum age requirement.

### **DISABILITY BENEFIT**

### **Eligibility Requirement**

Determination by the Teachers' Retirement Board that the participant has a total and permanent disability.

### Benefit

The account balance at the date of disability. An annuity benefit is discontinued if the participant is re-employed before age 60 and performs service creditable under the program.

### Form of Payment

Same as Normal Retirement.

### **DEATH BEFORE RETIREMENT**

### **Eligibility Requirement**

Deceased participant has an account balance.

### Benefit

The account balance at the date of death payable to the designated beneficiary.

### Form of Payment

Normal distribution is a lump-sum benefit. A participant's beneficiary may elect to receive the benefit in the form of a period-certain annuity if the sum of the balance of credits to the participant's employee and employer accounts equals or exceeds \$3,500.

### **DEATH AFTER RETIREMENT**

### **Eligibility Requirement**

The deceased participant was receiving an annuity.

### Benefit

According to the terms of the annuity elected by the participant.

### TERMINATION FROM THE PROGRAM

### **Eligibility Requirement**

More than five years has elapsed since the most recent termination benefit, if any, has been paid.

### Benefit and Form of Payment

Lump-sum distribution of the account balance as of the date of distribution. The benefit is payable six months from the termination of creditable service.

### Changes in Cash Balance Benefit Program Provisions

There have been no program amendments that would affect an actuarial valuation of the Cash Balance Benefit Program since the last CalSTRS annual financial report was issued. All program provisions were considered in the completion of the June 30, 2006, actuarial valuation.

All of the assumptions used in the actuarial valuation were adopted by the Teachers' Retirement Board when the experience study was adopted on March 4, 2004. Following are the assumptions adopted by the Teachers' Retirement Board for this program.

Table 1 | Post-Retirement Mortality Table for Sample Ages

|     | MALE                      | FEMALE                    |
|-----|---------------------------|---------------------------|
| Age | 1999 CalSTRS<br>Retired–M | 1999 CalSTRS<br>Retired–F |
| 50  | 0.19%                     | 0.12%                     |
| 55  | 0.32                      | 0.19                      |
| 60  | 0.56                      | 0.34                      |
| 65  | 1.02                      | 0.67                      |
| 70  | 1.80                      | 1.18                      |
| 75  | 2.85                      | 1.83                      |
| 80  | 5.02                      | 3.78                      |
| 85  | 9.42                      | 6.50                      |
| 90  | 14.75                     | 11.63                     |
| 95  | 23.36                     | 18.62                     |

Table 2 | Probabilities of Retirement for Sample Ages

|     | UNDER       | 30 YEARS | 30 OR M | ORE YEARS |
|-----|-------------|----------|---------|-----------|
| Age | Male Female |          | Male    | Female    |
| 55  | 3.0%        | 5.0%     | 6.0%    | 8.0%      |
| 60  | 7.0         | 10.0     | 25.0    | 30.0      |
| 65  | 14.0        | 16.0     | 27.0    | 27.0      |
| 70  | 100.0       | 100.0    | 100.0   | 100.0     |

Table 3 | Probabilities of Withdrawal from Active Service Before Age and Service Retirement for Sample Ages

|          |          |       | ENTRY | AGES  |       |       |
|----------|----------|-------|-------|-------|-------|-------|
| Duration | Under 25 | 25–29 | 30–34 | 35–39 | 40–44 | 45+   |
| Male     |          |       |       |       |       |       |
| 1        | 12.5%    | 12.5% | 12.5% | 12.5% | 12.5% | 13.5% |
| 2        | 7.7      | 7.7   | 7.7   | 7.7   | 7.7   | 8.6   |
| 3        | 6.3      | 5.4   | 5.4   | 5.4   | 5.4   | 6.3   |
| 4        | 4.4      | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   |
| 5        | 3.9      | 3.0   | 3.0   | 3.0   | 3.0   | 3.6   |
| 10       | 2.0      | 2.0   | 2.0   | 2.0   | 2.4   |       |
| 15       | 1.1      | 1.1   | 1.1   | 1.2   |       |       |
| 20       | 0.6      | 0.6   | 0.6   |       |       |       |
| 25       | 0.5      | 0.5   |       |       |       |       |
| 30       | 0.0      |       |       |       |       |       |
| 35       |          |       |       |       |       |       |
| 40       |          |       |       |       |       |       |
| Female   |          |       |       |       |       |       |
| 1        | 10.0%    | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% |
| 2        | 7.2      | 7.2   | 7.2   | 7.2   | 7.2   | 7.2   |
| 3        | 6.3      | 6.3   | 5.8   | 5.3   | 4.9   | 4.9   |
| 4        | 5.8      | 5.8   | 5.4   | 4.9   | 3.9   | 3.0   |
| 5        | 5.5      | 5.8   | 4.2   | 2.9   | 2.5   | 2.5   |
| 10       | 2.3      | 2.0   | 1.7   | 1.4   | 1.6   |       |
| 15       | 1.1      | 0.9   | 1.0   | 0.9   |       |       |
| 20       | 0.6      | 0.7   | 0.9   |       |       |       |
| 25       | 0.6      | 0.6   |       |       |       |       |
| 30       | 0.0      |       |       |       |       |       |

Table 4 | Assumption for Pay Increases Due to Promotions and Longevity for Sample Ages (exclusive of the assumed general wage increase, which includes inflation)

|          | ENTRY AGES  |       |       |       |       |      |  |  |
|----------|-------------|-------|-------|-------|-------|------|--|--|
| Duration | Under<br>25 | 25–29 | 30–34 | 35–39 | 40–44 | 45+  |  |  |
| 1        | 5.6%        | 5.3%  | 5.1%  | 4.8%  | 4.8%  | 3.5% |  |  |
| 2        | 5.6         | 5.1   | 4.9   | 4.7   | 4.7   | 3.3  |  |  |
| 3        | 5.6         | 5.0   | 4.8   | 4.6   | 4.6   | 3.0  |  |  |
| 4        | 5.5         | 4.8   | 4.6   | 4.4   | 4.4   | 2.9  |  |  |
| 5        | 5.5         | 4.8   | 4.5   | 3.8   | 3.8   | 2.6  |  |  |
| 10       | 3.2         | 3.0   | 2.7   | 2.3   | 2.2   | 1.6  |  |  |
| 15       | 1.5         | 1.5   | 1.4   | 1.1   | 1.1   | 0.8  |  |  |
| 20       | 1.3         | 1.1   | 1.1   | 0.8   | 0.8   | 0.6  |  |  |
| 25       | 1.1         | 0.9   | 0.8   | 0.5   | 0.5   |      |  |  |
| 30       | 0.9         | 0.7   | 0.6   | 0.5   |       |      |  |  |
| 35       | 0.8         | 0.7   | 0.6   |       |       |      |  |  |
| 40       | 0.8         | 0.6   |       |       |       |      |  |  |
| 45       | 0.8         |       |       |       |       |      |  |  |

 Table 5
 Economic Assumptions

| Consumer Price Inflation    | 3.25% |
|-----------------------------|-------|
| Investment Yield            | 8.00  |
| Wage Inflation              | 4.25  |
| Interest on Member Accounts | 8.00  |

Table 6 | Mortality Assumptions

|                | RETIRED MEMBERS*            |  |  |  |  |
|----------------|-----------------------------|--|--|--|--|
| Male           | 1999 CalSTRS Retired-M      |  |  |  |  |
| Female         | 1999 CalSTRS Retired-F      |  |  |  |  |
| ACTIVE MEMBERS |                             |  |  |  |  |
| Male           | 1999 CalSTRS Retired-M (-2) |  |  |  |  |
| Female         | 1999 CalSTRS Retired-F (-2) |  |  |  |  |
|                | BENEFICIARIES*              |  |  |  |  |
| Male           | 1999 CalSTRS Beneficiary-M  |  |  |  |  |
| Female         | 1999 CalSTRS Beneficiary-F  |  |  |  |  |

 $<sup>^{\</sup>star}\,$  Future retirees and beneficiaries are valued with a 2-year age setback.

Table 7 | Termination from Disability Due to Death

| Male   | 1994 GAM-M (Min. 2.5% with select rates in first 3 years) |
|--------|-----------------------------------------------------------|
| Female | 1994 GAM-F (Min. 2.2% with select rates in first 3 years) |

 Table 8
 Service Retirement (sample ages)

|        | AGE | UNDER<br>30 YEARS | 30 OR MORE<br>YEARS |
|--------|-----|-------------------|---------------------|
| Male   | 55  | 3.0%              | 6.0%                |
|        | 60  | 7.0               | 25.0                |
|        | 65  | 14.0              | 27.0                |
|        | 70  | 100.0             | 100.0               |
| Female | 55  | 5.0%              | 8.0%                |
|        | 60  | 10.0              | 30.0                |
|        | 65  | 16.0              | 27.0                |
|        | 70  | 100.0             | 100.0               |

### Table 9 | Disability Rates (sample ages)

|        | AGE | ENTRY AGE<br>UNDER 40 | ENTRY AGE<br>40 AND UP |
|--------|-----|-----------------------|------------------------|
| Male   | 25  | 0.021%                |                        |
|        | 30  | 0.030                 |                        |
|        | 35  | 0.051                 |                        |
|        | 40  | 0.120                 |                        |
|        | 45  | 0.150                 | 0.118%                 |
|        | 50  | 0.195                 | 0.202                  |
|        | 55  | 0.270                 | 0.312                  |
| Female | 25  | 0.030%                |                        |
|        | 30  | 0.030                 |                        |
|        | 35  | 0.051                 |                        |
|        | 40  | 0.090                 |                        |
|        | 45  | 0.141                 | 0.139%                 |
|        | 50  | 0.231                 | 0.252                  |
|        | 55  | 0.318                 | 0.367                  |

Table 10 | Schedule of Active Participant Valuation Data

| Date<br>(as of June 30) | Number | Annual<br>Payroll | Annual<br>Average Pay | % Increase<br>In Average Pay |
|-------------------------|--------|-------------------|-----------------------|------------------------------|
| 2001                    | 11,274 | \$97,921,000      | \$8,686               | (2.0)%                       |
| 2002                    | 9,261  | 89,871,000        | 9,704                 | 11.7                         |
| 2003                    | 8,980  | 81,080,000        | 9,029                 | (7.0)                        |
| 2004                    | 9,114  | 96,199,000        | 10,555                | 16.9                         |
| 2005                    | 9,385  | 106,951,000       | 11,396                | 8.0                          |
| 2006                    | 9,869  | 122,316,000       | 12,394                | 8.8                          |

Table 11 | Schedule of Retired Participants and Beneficiaries Added to and Removed from Annuity Rolls

|                         | ADDED TO ROLLS* |                      | REMOVED FROM ROLLS |                      | ROLLS-END OF YEAR |                      |                                        |                                 |
|-------------------------|-----------------|----------------------|--------------------|----------------------|-------------------|----------------------|----------------------------------------|---------------------------------|
| Date<br>(as of June 30) | Number          | Annual<br>Allowances | Number             | Annual<br>Allowances | Number            | Annual<br>Allowances | % Increase in<br>Annuual<br>Allowances | Average<br>Annual<br>Allowances |
| 2002                    | 0               | \$0                  | 0                  | \$0                  | 0                 | \$0                  | na                                     | na                              |
| 2003                    | 0               | 0                    | 0                  | 0                    | 0                 | 0                    | na                                     | na                              |
| 2004                    | 3               | 4,819                | 0                  | 0                    | 3                 | 4,819                | 100%                                   | \$1,606                         |
| 2005                    | 4               | 9,700                | 1                  | 803                  | 6                 | 13,716               | 184.6                                  | 2,286                           |
| 2006                    | 5               | 10,708               | 0                  | 0                    | 11                | 24,423               | 78.1                                   | 2,220                           |
| 2007                    | 5               | 10,715               | 0                  | 0                    | 16                | 35,139               | 43.9                                   | 2,196                           |

<sup>\*</sup>The Cash Balance Benefit Program was established July 1, 1996. As of June 30, 2003, all participants who had retired or become disabled had elected a lump-sum distribution.

No annuities had been paid.

Table 12 | Solvency Test

|                                   | AGGREGATE ACCRUED LIABILITIES FOR                   |                                                   |                                                         |                           |       |        | TIES |
|-----------------------------------|-----------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|---------------------------|-------|--------|------|
| Valuation Date<br>(as of June 30) | (1)<br>Active Member<br>Contributions<br>on Deposit | (2)<br>Future Benefit<br>to Benefit<br>Recipients | (3)<br>Service Already<br>Rendered by Active<br>Members | Actuarial Value of Assets | (1)   | (2)    | (3)  |
| 2001                              | \$16,938,474                                        | \$0                                               | 0                                                       | \$15,768,000              | 93.0% | na     | na   |
| 2002                              | 25,080,056                                          | 0                                                 | 0                                                       | 21,748,000                | 87.0  | na     | na   |
| 2003                              | 33,836,853                                          | 0                                                 | 0                                                       | 29,963,000                | 89.0  | na     | na   |
| 2004                              | 41,972,042                                          | 31,000                                            | 0                                                       | 42,003,000                | 100.0 | 100.0% | na   |
| 2005                              | 51,728,731                                          | 52,000                                            | 0                                                       | 53,918,000                | 100.0 | 100.0  | na   |
| 2006                              | 62,749,487                                          | 140,000                                           | 0                                                       | 68,797,000                | 100.0 | 100.0  | na   |

Table 13 | Analysis of Financial Experience

|                                                          | ACTUARIAL VALUATION AS OF JUNE 30 |                    |  |
|----------------------------------------------------------|-----------------------------------|--------------------|--|
|                                                          | <b>2006</b> (2005)                | <b>2005</b> (2004) |  |
| Actuarial Obligation at June 30:                         | \$51,781,000                      | \$42,003,000       |  |
| Expected Changes:                                        |                                   |                    |  |
| Contributions                                            | 10,605,000                        | 8,639,000          |  |
| Benefits Paid                                            | (1,802,000)                       | (1,480,000)        |  |
| Expected Earnings/Credits                                | 4,495,000                         | 3,647,000          |  |
| Expected Actuarial Obligation at June 30:                | 65,079,000                        | 52,809,000         |  |
| Expected Actuarial Value of Assets at June 30:           | 67,387,000                        | 53,079,000         |  |
| Expected UAO at June 30                                  | (2,308,000)                       | (270,000)          |  |
| Actuarial (Gains) or Losses                              |                                   |                    |  |
| (Gain) on Actuarial Obligation                           | (2,923,000)                       | (1,028,000)        |  |
| (Gain) on Assets                                         | (1,410,000)                       | (839,000)          |  |
| Total Actuarial Gains & Losses                           | (4,333,000)                       | (1,867,000)        |  |
| Additional Earnings and Annuity Credits                  |                                   |                    |  |
| Additional Earnings Credit                               | 731,000                           | _                  |  |
| Additional Annuity Credit                                | 2,000                             | -                  |  |
| Total Additional Earnings and Annuity Credits            | 733,000                           |                    |  |
| Unfunded Actuarial Obligation (Surplus) at June 30, 2006 | (\$5,908,000)                     | (\$2,137,000)      |  |
| Funded Ratio                                             | 109%                              | 104%               |  |

**ACTUARY'S CERTIFICATION LETTER** 



1301 Fifth Avenue Suite 3800 Seattle, WA 98101-2605

Tel +1 206 624 7940 Fax +1 206 623 3485

January 16, 2008

Teachers' Retirement Board California State Teachers' Retirement System

Re: GASB 43 Reporting for the Medicare Premium Payment Program

Dear Members of the Board:

We have produced GASB 43 reporting information for the Medicare Premium Payment Program (MPPP) of the California State Teachers' Retirement System as of June 30, 2006. The MPPP is essentially funded on a pay-as-you-go basis with a portion of contributions to the DB Program diverted to the Teachers' Health Benefit Fund to make MPPP payments. \$1,687 million of future employer contributions to the DB Program has been allocated to pay the MPPP benefits; however, this amount is not included for GASB 43 reporting.

Calculations for GASB 43 reporting are normally performed every two years.

In preparing the GASB 43 reporting, we relied upon the financial information and membership data furnished by the System, and the Report of Independent Accountants. Although we did not audit this data, we compared the data for this and the prior study and tested for reasonableness. Based on these tests, we believe the data to be sufficiently accurate for the purposes of our calculations. It should be noted that if any data or other information is inaccurate or incomplete, our calculations may need to be revised.

Milliman did not prepare Schedules I and II, nor the summary of actuarial methods and assumptions in Schedule II of the Financial Section, nor the information included in this Actuarial Section of the 2007 Comprehensive Annual Financial Report. However, the actuarial information contained in Schedule I of the Financial Section and in this Actuarial Section was derived from our June 30, 2006 actuarial valuation report.

The Teachers' Retirement Board has sole authority to determine the actuarial assumptions and methods used for the MPP Program. The Board adopted all of the actuarial methods and assumptions used in the 2006 report.

The findings have been determined according to actuarial assumptions and methods that were chosen on the basis of recent experience of the MPP Program and of current expectations concerning future economic conditions. In our opinion, the assumptions used in the GASB 43 reporting are appropriate for purposes of this work, are internally consistent, and reflect reasonable expectations. The assumptions represent our best estimate of future conditions

### ACTUARY'S CERTIFICATION LETTER, CONTINUED



Teachers' Retirement Board January 16, 2008 Page 2

affecting the DB Program. Nevertheless, the emerging costs of the MPP Program will vary from those presented in this report to the extent that actual experience differs from that projected by the assumptions.

I certify that the information included in this report is complete and accurate to the best of my knowledge and belief. The GASB 43 reporting was prepared in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the applicable Standards of Practice adopted by the Actuarial Standards Board of the American Academy of Actuaries. In addition, the assumptions and methods used meet the parameters set for disclosures by Statement No. 43 of the Governmental Accounting Standards Board.

Milliman has been engaged by CalSTRS as an independent actuary. The undersigned is an Associate of the Society of Actuaries, a Member of the American Academy of Actuaries, an Enrolled Actuary, and experienced in performing valuations for large public employee retirement systems.

In conclusion, the results presented in this report satisfy GASB 43 reporting purposes. Based on the current actuarial assumptions, the assets of the MPPP program fund 0.3% of the accrued liabilities. It should be noted that these calculations do not include \$1,687 million of future employer contributions to the DB Program that has been allocated to pay the MPPP benefits.

Sincerely,

Nick J. Collier, ASA, EA, MAAA

Nix Colli

Consulting Actuary

NJC/nlo

# Summary of Actuarial Assumptions and Methods

CalSTRS, through its consulting actuary, will perform an experience study at least every four years to determine appropriate demographic and economic assumptions. These assumptions are then applied every two years when the consulting actuary produces GASB 43 reporting information for the Medicare Premium Payment Program. The GASB 43 reporting information was completed as of June 30, 2006, and adopted by the Teachers' Retirement Board April 5, 2007. The following tables and summary were prepared by CalSTRS staff. All information is considered when preparing June 30, 2006, GASB 43 reporting information.

The Medicare Premium Payment Program was established January 1, 2001, and therefore has not yet existed for a sufficient period of time to allow completion of the first experience study. Temporary one-time assumptions were adopted for the Medicare Premium Payment Program by the Teachers' Retirement Board on February 9, 2007. The economic and demographic assumptions were based on those adopted for the Defined Benefit Program by the Teachers' Retirement Board on March 4, 2004. The economic, demographic and medical assumptions were used for GASB 43 reporting information. The Defined Benefit Program and the Medicare Premium Payment Program share the same population, so it is reasonable to use most of the same assumptions for both programs. Following

are the assumptions adopted by the Teachers' Retirement Board for GASB 43 reporting:

- GASB 43 discount rate is 4.00 percent.
- Method used to value plan assets for GASB 43 reporting purposes: market value of assets held in the Health Benefit Trust Fund.
- Assumption for general wage increase is 4.25 percent, of which 3.25 percent is due to inflation and 1.00 percent is due to expected gains in productivity.
- The actuarial cost method used for GASB 43 reporting purposes is entry age normal.

### **DISCUSSION OF RECENT CHANGES IN:**

The nature of the program—The Medicare Premium Payment Program is a relatively new program, established January 1, 2001. All provisions of the program as of June 2006 were considered when producing GASB 43 reporting information.

**Actuarial Assumptions**—There have been no changes to the actuarial assumptions. The following assumptions were used to complete the valuation for this program.

### **Actuarial Methods**

Actuarial Cost Method
Asset Valuation Method

Entry Age Normal Fair Market value in the Health Benefit Trust Fund

The actuarial methods used for GASB 43 reporting purposes as of June 30, 2006, result in an unfunded actuarial accrued liability of \$793,800,000.

CalSTRS contracts for many actuarial services. The current contractor, Milliman, has been CalSTRS' actuary since January 15, 2000.

There are no other specific assumptions that have a material impact on GASB 43 reporting information.

### **Independent Actuarial Review**

Actuarial services for the California State Teachers' Retirement System are provided under contract by a qualified independent actuarial firm, with additional review provided by the staff actuary.

The work performed for CalSTRS by the independent actuarial firm may be reviewed by the Bureau of State Audits at the discretion of the Teachers' Retirement Board. Also, through the competitive bid process, the work of a prior actuary will be compared for reasonableness in subsequent work performed by a new contract actuary. Should the same actuarial firm continue for a period of 10 years, provision is made for an independent audit completed by another firm. These audit services are acquired using the competitive bid process.

# Summary of Medicare Premium Payment Program Provisions

(The following tables and summary were prepared by CalSTRS staff. All information is considered for GASB 43 reporting purposes as of June 30, 2006.)

### **MEMBERSHIP**

Eligibility requirement - Part A Member — satisfies either:

 Retired or disabled prior to January 1, 2001; hired prior to April 1, 1986; age 65 or above; enrolled in Medicare Part A and Part B; and not eligible for Part A without premium payment

- or -

2) Meet all above requirements, except retired or disabled before July 1, 2007; district completed a Medicare Division election prior to retirement; and active member less than 58 years of age at the time of the election.

### Spouse eligibility

Spouses of members are not eligible to participate in the program.

Eligibility requirement — Part B

Only those currently enrolled are eligible.

### **Benefits Paid**

Part A – Part A premium (\$410 per month in 2007)

Part B – Part B penalty. Based on Part B premium (\$93.50 per month in 2007). Small group of high earners will have higher premiums, up to \$161.40 in 2007.

# Changes in the Medicare Premium Payment Program Provisions

The amendments described below were not considered for June 30, 2006, GASB 43 reporting as they were effective after that date:

### Effective April 5, 2007

 Medicare Premium Payment Program was extended for a five-year period to include members retiring or becoming disabled prior to July 1, 2012.

All of the assumptions used for GASB 43 reporting were adopted by the Teachers' Retirement Board on April 5, 2007. Following are the assumptions adopted by the Teachers' Retirement Board for this program.

Table 1 | Post-Retirement Mortality Table for Sample Ages

|     | MALE                      | FEMALE                    |
|-----|---------------------------|---------------------------|
| Age | 1999 CalSTRS<br>Retired–M | 1999 CalSTRS<br>Retired–F |
| 50  | 0.19%                     | 0.12%                     |
| 55  | 0.32                      | 0.19                      |
| 60  | 0.56                      | 0.34                      |
| 65  | 1.02                      | 0.67                      |
| 70  | 1.80                      | 1.18                      |
| 75  | 2.85                      | 1.83                      |
| 80  | 5.02                      | 3.78                      |
| 85  | 9.42                      | 6.50                      |
| 90  | 14.75                     | 11.63                     |
| 95  | 23.36                     | 18.62                     |

Table 2 | Probabilities of Retirement for Sample Ages

|     | UNDER 3 | UNDER 30 YEARS |       | RE YEARS |
|-----|---------|----------------|-------|----------|
| Age | Male    | Female         | Male  | Female   |
| 55  | 3.0%    | 5.0%           | 6.0%  | 8.0%     |
| 60  | 7.0     | 10.0           | 25.0  | 30.0     |
| 65  | 14.0    | 16.0           | 27.0  | 27.0     |
| 70  | 100.0   | 100.0          | 100.0 | 100.0    |

Table 3 | Probabilities of Withdrawal from Active Service Before Age and Service Retirement for Sample Ages

|          | ENTRY AGES |       |       |       |       |       |
|----------|------------|-------|-------|-------|-------|-------|
| Duration | Under 25   | 25–29 | 30-34 | 35–39 | 40–44 | 45+   |
| Male     |            |       |       |       |       |       |
| 1        | 12.5%      | 12.5% | 12.5% | 12.5% | 12.5% | 13.5% |
| 2        | 7.7        | 7.7   | 7.7   | 7.7   | 7.7   | 8.6   |
| 3        | 6.3        | 5.4   | 5.4   | 5.4   | 5.4   | 6.3   |
| 4        | 4.4        | 4.4   | 4.4   | 4.4   | 4.4   | 4.4   |
| 5        | 3.9        | 3.0   | 3.0   | 3.0   | 3.0   | 3.6   |
| 10       | 2.0        | 2.0   | 2.0   | 2.0   | 2.4   |       |
| 15       | 1.1        | 1.1   | 1.1   | 1.2   |       |       |
| 20       | 0.6        | 0.6   | 0.6   |       |       |       |
| 25       | 0.5        | 0.5   |       |       |       |       |
| 30       | 0.0        |       |       |       |       |       |
| 35       |            |       |       |       |       |       |
| 40       |            |       |       |       |       |       |
| Female   |            |       |       |       |       |       |
| 1        | 10.0%      | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% |
| 2        | 7.2        | 7.2   | 7.2   | 7.2   | 7.2   | 7.2   |
| 3        | 6.3        | 6.3   | 5.8   | 5.3   | 4.9   | 4.9   |
| 4        | 5.8        | 5.8   | 5.4   | 4.9   | 3.9   | 3.0   |
| 5        | 5.5        | 5.8   | 4.2   | 2.9   | 2.5   | 2.5   |
| 10       | 2.3        | 2.0   | 1.7   | 1.4   | 1.6   |       |
| 15       | 1.1        | 0.9   | 1.0   | 0.9   |       |       |
| 20       | 0.6        | 0.7   | 0.9   |       |       |       |
| 25       | 0.6        | 0.6   |       |       |       |       |
| 30       | 0.0        |       |       |       |       |       |

### Table 4 | Probability of Refund

| Entry Age – Male |             |       |       |       |              |  |
|------------------|-------------|-------|-------|-------|--------------|--|
| YEAR             | UNDER<br>25 | 25–29 | 30–34 | 35–39 | 40<br>AND UP |  |
| Under 5          | 100%        | 100%  | 100%  | 100%  | 100%         |  |
| 10               | 50          | 50    | 42    | 45    | 45           |  |
| 15               | 42          | 42    | 36    | 30    |              |  |
| 20               | 34          | 36    | 27    |       |              |  |
| 25               | 24          | 27    |       |       |              |  |
| 30               | 0           |       |       |       |              |  |

|         | Entry Age – Female |       |       |       |              |  |  |
|---------|--------------------|-------|-------|-------|--------------|--|--|
| YEAR    | UNDER<br>25        | 25–29 | 30–34 | 35–39 | 40<br>AND UP |  |  |
| Under 5 | 100%               | 100%  | 100%  | 100%  | 100%         |  |  |
| 10      | 40                 | 35    | 36    | 36    | 35           |  |  |
| 15      | 30                 | 30    | 30    | 30    |              |  |  |
| 20      | 25                 | 20    | 20    |       |              |  |  |
| 25      | 15                 | 10    |       |       |              |  |  |
| 30      | 0                  |       |       |       |              |  |  |

### Table 5 | Economic Assumptions

| Investment Yield  | n/a                              |
|-------------------|----------------------------------|
| Higher Cost       | n/a                              |
| GASB Reporting    | 4.00%                            |
| Medical Inflation |                                  |
| Part A Premiums   | 5.00                             |
| Part B Premiums   | 9.0 grading down to 6.0% in 2011 |
| Price Inflation   | 3.25                             |

### Table 6 | Mortality Assumptions

|        | RETIRED MEMBERS*            |
|--------|-----------------------------|
| Male   | 1999 CalSTRS Retired-M      |
| Female | 1999 CalSTRS Retired-F      |
|        | ACTIVE MEMBERS              |
| Male   | 1999 CalSTRS Retired-M (-2) |
| Female | 1999 CalSTRS Retired-F (-2) |
|        | BENEFICIARIES*              |
| Male   | 1999 CalSTRS Beneficiary-M  |
| Female | 1999 CalSTRS Beneficiary-F  |

<sup>\*</sup> Future retirees and beneficiaries are valued with a 2-year age setback.

### Table 7 | Termination from Disability Due to Death

| Male   | 1994 GAM-M (Min. 2.5% with select rates in first 3 years) |
|--------|-----------------------------------------------------------|
| Female | 1994 GAM-F (Min. 2.2% with select rates in first 3 years) |

 Table 8
 Service Retirement (sample ages)

|        | AGE | UNDER<br>30 YEARS | 30 OR MORE<br>YEARS |
|--------|-----|-------------------|---------------------|
| Male   | 55  | 3.0%              | 6.0%                |
|        | 60  | 7.0               | 25.0                |
|        | 65  | 14.0              | 27.0                |
|        | 70  | 100.0             | 100.0               |
| Female | 55  | 5.0%              | 8.0%                |
|        | 60  | 10.0              | 30.0                |
|        | 65  | 16.0              | 27.0                |
|        | 70  | 100.0             | 100.0               |

### Table 9 Disability Rates (sample ages)

|        | AGE | ENTRY AGE<br>UNDER 40 | ENTRY AGE<br>40 AND UP |
|--------|-----|-----------------------|------------------------|
| Male   | 25  | 0.021%                |                        |
|        | 30  | 0.030                 |                        |
|        | 35  | 0.051                 |                        |
|        | 40  | 0.120                 |                        |
|        | 45  | 0.150                 | 0.118%                 |
|        | 50  | 0.195                 | 0.202                  |
|        | 55  | 0.270                 | 0.312                  |
| Female | 25  | 0.030%                |                        |
|        | 30  | 0.030                 |                        |
|        | 35  | 0.051                 |                        |
|        | 40  | 0.090                 |                        |
|        | 45  | 0.141                 | 0.139%                 |
|        | 50  | 0.231                 | 0.252                  |
|        | 55  | 0.318                 | 0.367                  |
|        | 55  | 0.318                 | 0.367                  |

Table 10 | Schedule of Medicare Part A Enrollment Rates

| ASSUMPTION                                                                    | BEST ESTIMATE |        | HIGHER COST |        |
|-------------------------------------------------------------------------------|---------------|--------|-------------|--------|
|                                                                               | Male          | Female | Male        | Female |
| % of Actives and Under 65 Retirees<br>Enrolling (Retired On or After 2001)    | 3.5%          | 4.0%   | 5.0%        | 6.0%   |
| % of Under 65 Retirees Enrolling<br>(Retired Before 2001)                     | 5.7           | 7.3    | 8.6         | 10.5   |
| % of Over 65 Retirees Enrolling<br>(For Those Not Currently Enrolled) at Age: |               |        |             |        |
| 65                                                                            | 3.0           | 3.0    | 3.5         | 3.5    |
| 66                                                                            | 2.0           | 2.0    | 2.5         | 2.5    |
| 67                                                                            | 1.5           | 1.5    | 2.0         | 2.0    |
| 68                                                                            | 1.0           | 1.0    | 1.5         | 1.5    |
| 69                                                                            | 0.5           | 0.5    | 1.0         | 1.0    |
| 70-74                                                                         | 0.3           | 0.3    | 0.8         | 0.8    |
| 75 & above                                                                    | 0.1           | 0.1    | 0.6         | 0.6    |

Table 11 | Schedule of Retired Members Added to and Removed from Medicare Part A Premium Rolls

|                         | ADDED TO ROLLS* |                                   | REMOVED FROM ROLLS |                                   | ROLLS-END OF YEAR |                                   |                                       |                                 |
|-------------------------|-----------------|-----------------------------------|--------------------|-----------------------------------|-------------------|-----------------------------------|---------------------------------------|---------------------------------|
| Date<br>(as of June 30) | Number          | Annual<br>Allowances <sup>1</sup> | Number             | Annual<br>Allowances <sup>1</sup> | Number            | Annual<br>Allowances <sup>1</sup> | % Increase<br>in Annual<br>Allowances | Average<br>Annual<br>Allowances |
| 2002                    | 5,308           | \$19,004                          | 141                | \$329                             | 5,167             | \$18,675                          | 100.0%                                | \$3,614                         |
| 2003                    | 654             | 1,873                             | 185                | 388                               | 5,720             | 20,662                            | 10.6                                  | 3,612                           |
| 2004                    | 720             | 2,376                             | 207                | 505                               | 5,921             | 24,117                            | 16.7                                  | 4,073                           |
| 2005                    | 319             | 905                               | 195                | 514                               | 6,120             | 25,977                            | 7.7                                   | 4,245                           |
| 2006                    | 405             | 1,193                             | 219                | 613                               | 6,188             | 27,326                            | 5.2                                   | 4,416                           |
| 2007                    | 391             | 1,274                             | 215                | 630                               | 6,268             | 29,618                            | 8.4                                   | 4,725                           |

<sup>\*</sup> The Medicare Premium Payment Program was established July 1, 2001.

<sup>&</sup>lt;sup>1</sup> Dollars in thousands.

Table 12 | Solvency Test<sup>1</sup>

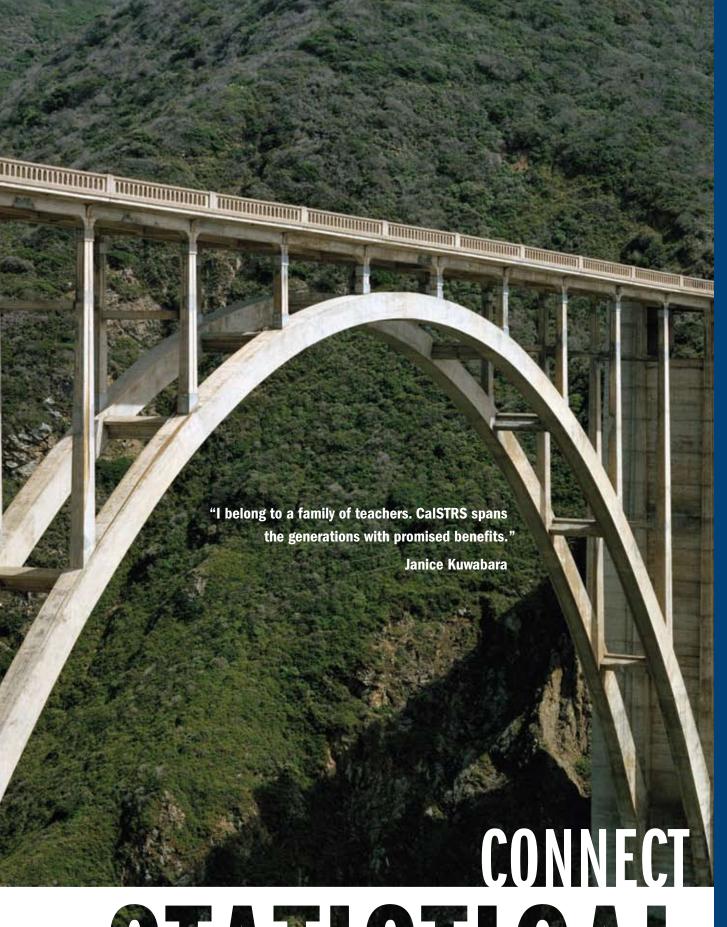
| AGGR                              | AGGREGATE ACCRUED LIABILITIES FOR (in millions)     |                                                   |                                                         |                              |      |      | LITIES |
|-----------------------------------|-----------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|------------------------------|------|------|--------|
| Valuation Date<br>(as of June 30) | (1)<br>Active Member<br>Contributions<br>on Deposit | (2)<br>Future Benefit<br>to Benefit<br>Recipients | (3)<br>Service Already<br>Rendered by Active<br>Members | Actuarial Value<br>of Assets | (1)  | (2)  | (3)    |
| 2006                              | \$0                                                 | \$796.5                                           | \$0                                                     | \$2.7                        | 100% | 0.3% | 0%     |

 $<sup>^{\</sup>rm 1}$  GASB 43 reporting information was determined for the first time as of June 30, 2006.

### Table 13 | Analysis of Financial Experience<sup>1</sup>

|                                                          | GASB 43 REPORTIN   | G AS OF JUNE 30    |
|----------------------------------------------------------|--------------------|--------------------|
|                                                          | <b>2006</b> (2005) | <b>2005</b> (2004) |
| Actuarial Obligation at June 30:                         | not calculated     | \$0.0              |
| Expected Changes:                                        |                    |                    |
| Eligibility Extended                                     | not calculated     |                    |
| Benefits Paid                                            | (\$29.3)           |                    |
| Interest                                                 | not calculated     |                    |
| Expected Actuarial Obligation at June 30:                | not calculated     |                    |
| Expected Actuarial Value of Assets at June 30:           | not calculated     |                    |
| Expected UAO at June 30                                  | not calculated     |                    |
| Actuarial (Gains) or Losses                              |                    |                    |
| (Gain) on Medical Trend Assumption                       | not calculated     |                    |
| (Gain) on Premium/Penalty                                | not calculated     |                    |
| (Gain) on Part B Premium for higher earners              | not calculated     |                    |
| (Gain) other sources                                     | not calculated     |                    |
| Total Actuarial Gains & Losses                           | not calculated     |                    |
| Unfunded Actuarial Obligation (Surplus) at June 30, 2006 | \$793.8            |                    |
| Funded Ratio                                             | 0.3%               |                    |

 $<sup>^{\</sup>rm 1}$  GASB 43 reporting information was determined for the first time as of June 30, 2006.



# STATISTICAL

### **MOTHER**



NAME
Janice Kuwabara

# **SCHOOL DISTRICT**San Juan Unified

### **WHY I TEACH**

When I was growing up, women could be teachers, nurses, or secretaries, and we were expected to marry, have kids and stay home. So that's why I started out to be a teacher, but I discovered I really love it.

### **SUBJECT AREA**

1st grade

CalSTRS member since 1996

**NAME** Marilyn Johnson

### SCHOOL DISTRICT Vacaville Unified

### **WHY I TEACH**

I decided I wanted to teach the dying art of sewing. I am really liking these middle school kids; it breaks my heart sometimes, the trials and tribulations they go through.

### **SUBJECT AREA**

Math and Home Economics - Middle School

CalSTRS member since 2002

### **DAUGHTER**



Notes: Supplemental statistical tables are available upon request to CalSTRS at 1-800-228-5453.

All non-accounting data presented in the Statistical Section is derived from the pension administration system, except where noted.

The Statistical Section presents data for the Teachers' Retirement Fund, Voluntary Investment Program and the Medicare Premium Payment Program, as the remaining Funds are deemed immaterial.

The assets of the Defined Benefit Program, Defined Benefit Supplement Program and Cash Balance Benefit Program comprise the Teachers' Retirement Fund on the statement of changes in fiduciary net assets.

# **DEFINED BENEFIT PROGRAM**

Table 1 | Change in Net Assets (dollars in millions)

| FISCAL YEAR                                             |            |            |            |            |           |             |             |            |            |            |
|---------------------------------------------------------|------------|------------|------------|------------|-----------|-------------|-------------|------------|------------|------------|
| ENDING JUNE 30                                          | 2007       | 2006       | 2005       | 2004       | 2003      | 2002        | 2001        | 2000       | 1999       | 1998       |
| Additions                                               |            |            |            |            |           |             |             |            |            |            |
| Member Contributions                                    | \$1,690.5  | \$1,626.1  | \$1,748.3  | \$1,640.7  | \$1,557.9 | \$1,381.9   | \$1,630.4   | \$1,529.8  | \$1,424.1  | \$1,302.8  |
| <b>Employer Contributions</b>                           | 2,168.4    | 2,094.5    | 2,004.6    | 1,918.3    | 1,892.1   | 1,721.4     | 1,880.9     | 1,588.5    | 1,475.7    | 1,371.4    |
| State of California/<br>Federal Government <sup>1</sup> | 1,084.4    | 1,018.7    | 1,218.6    | 548.7      | 1,015.0   | 915.8       | 946.2       | 939.2      | 350.1      | 1,004.6    |
| Investment Income                                       | 29,027.7   | 15,732.6   | 13,897.6   | 16,354.3   | 3,622.9   | (6,268.5)   | (10,230.9)  | 12,689.8   | 11,797.8   | 12,949.5   |
| Other Income                                            | 0.5        | 0.1        | 1.4        | (0.3)      | 0.0       | 0.7         | 0.4         | 0.2        | 0.1        | 0.7        |
| Total Additions                                         | \$33,971.5 | \$20,472.0 | \$18,870.5 | \$20,461.7 | \$8,087.9 | (\$2,248.7) | (\$5,773.0) | \$16,747.5 | \$15,047.8 | \$16,629.0 |
| Deductions                                              |            |            |            |            |           |             |             |            |            |            |
| Benefit Payments to<br>Members                          | \$6,839.5  | \$6,334.4  | \$5,835.9  | \$5,279.5  | \$4,715.6 | \$4,244.0   | \$3,764.6   | \$3,435.2  | \$3,145.2  | \$2,923.8  |
| Refunds of Member<br>Contributions                      | 87.5       | 82.9       | 79.1       | 79.2       | 78.7      | 73.9        | 77.4        | 80.0       | 74.6       | 69.0       |
| Purchasing Power<br>Benefits                            | 230.3      | 215.3      | 221.3      | 223.5      | 233.8     | 257.0       | 189.4       | 190.5      | 197.9      | 179.4      |
| Administration<br>Expenses                              | 103.4      | 93.6       | 92.9       | 93.5       | 72.1      | 63.5        | 54.5        | 50.5       | 45.0       | 36.3       |
| Other Expense                                           | 0.0        | 0.0        | 10.1       | 1.7        | 0.1       | 2.3         | 0.0         | 0.0        | 0.0        | 0.0        |
| Total Deductions                                        | \$7,260.7  | \$6,726.2  | \$6,239.3  | \$5,677.4  | \$5,100.3 | \$4,640.7   | \$4,085.9   | \$3,756.2  | \$3,462.7  | \$3,208.5  |
| Change in Net Assets                                    | \$26,710.8 | \$13,745.8 | \$12,631.2 | \$14,784.3 | \$2,987.6 | (\$6,889.4) | (\$9,858.9) | \$12,991.3 | \$11,585.1 | \$13,420.5 |

There may be immaterial rounding differences between the figures presented in this table and in the Statement of Changes in Fiduciary Net Assets. 

<sup>1</sup> Includes Elder Full Funding, SBMA contributions and school lands revenue.

Table 2 | Benefit and Refund Deductions from Net Assets by Type (dollars in millions)

| FISCAL YEAR            |                |           |           |           |           |           |           |           |           |           |
|------------------------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ENDING JUNE 30         | 2007           | 2006      | 2005      | 2004      | 2003      | 2002      | 2001      | 2000      | 1999      | 1998      |
| Type of Benefit        |                |           |           |           |           |           |           |           |           |           |
| Age & Service Benefits |                |           |           |           |           |           |           |           |           |           |
| Retired Members        | \$6,521.0      | \$6,033.0 | \$5,568.1 | \$5,080.2 | \$4,518.5 | \$4,103.2 | \$3,785.8 | \$3,458.7 | \$3,180.5 | \$2,953.7 |
| Survivors              | 376.7          | 351.9     | 329.8     | 233.8     | 247.6     | 233.5     | 36.7      | 33.7      | 31.8      | 30.3      |
| Death                  | 26.5           | 27.6      | 34.2      | 74.0      | 78.1      | 69.6      | 42.1      | 53.2      | 56.4      | 51.7      |
| Disability Benefits    |                |           |           |           |           |           |           |           |           |           |
| Retired Members        | 145.6          | 137.2     | 125.1     | 115.0     | 105.4     | 94.7      | 88.4      | 79.0      | 73.2      | 66.5      |
| Survivors              | 0.0            | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 1.0       | 1.1       | 1.2       | 1.0       |
| Total Benefits         | \$7,069.8      | \$6,549.7 | \$6,057.2 | \$5,503.0 | \$4,949.6 | \$4,501.0 | \$3,954.0 | \$3,625.7 | \$3,343.1 | \$3,103.2 |
| Type of Refund         | Type of Refund |           |           |           |           |           |           |           |           |           |
| Separation             | \$87.5         | \$82.9    | \$79.1    | \$79.2    | \$78.7    | \$73.9    | \$77.4    | \$80.0    | \$74.6    | \$69.0    |
| Total Refunds          | \$87.5         | \$82.9    | \$79.1    | \$79.2    | \$78.7    | \$73.9    | \$77.4    | \$80.0    | \$74.6    | \$69.0    |

There may be immaterial rounding differences between the figures presented in this table and in the Statement of Changes in Fiduciary Net Assets.

Table 3 | Active Member Characteristics

| FISCAL YEAR<br>ENDING JUNE 30 | COUNT   | AVERAGE<br>EARNABLE SALARY <sup>1</sup> | AVERAGE<br>AGE | AVERAGE<br>SERVICE CREDIT | AVERAGE SERVICE<br>PROJECTED TO AGE 60 |
|-------------------------------|---------|-----------------------------------------|----------------|---------------------------|----------------------------------------|
| 1998                          | 385,530 | \$43,766                                | 44.3           | 11.0                      | 26.7                                   |
| 1999                          | 402,220 | 45,421                                  | 44.2           | 10.8                      | 26.6                                   |
| 2000                          | 420,530 | 46,677                                  | 44.2           | 10.7                      | 26.5                                   |
| 2001                          | 428,741 | 51,478                                  | 44.3           | 10.7                      | 26.4                                   |
| 2002                          | 442,208 | 53,113                                  | 44.3           | 10.5                      | 26.2                                   |
| 2003                          | 448,478 | 54,066                                  | 44.3           | 10.5                      | 26.2                                   |
| 2004                          | 444,680 | 54,978                                  | 44.5           | 10.7                      | 26.2                                   |
| 2005                          | 450,282 | 46,677                                  | 44.5           | 10.7                      | 26.2                                   |
| 2006                          | 453,365 | 57,698                                  | 44.7           | 10.8                      | 26.1                                   |
| 2007                          | 455,693 | 61,097                                  | 44.7           | 10.8                      | 26.1                                   |

 $<sup>^{\</sup>rm 1}\,{\rm Average}$  salary that would be paid if members worked full-time basis.

Table 4 | Members Retired for Service During Fiscal Year 2006-07, Classified by Member-Only Benefit<sup>1</sup>

| MONTHLY MEMBER-ONLY<br>BENEFIT <sup>2</sup> | COUNT  | AVERAGE AGE<br>AT RETIREMENT | AVERAGE<br>SERVICE CREDIT | AVERAGE FINAL COMPENSATION | AVERAGE<br>BENEFIT PAYABLE |
|---------------------------------------------|--------|------------------------------|---------------------------|----------------------------|----------------------------|
| Less than \$500                             | 565    | 61.3                         | 6.102                     | \$3,113                    | \$315                      |
| 500 - 1,000                                 | 883    | 61.3                         | 9.721                     | 4,142                      | 705                        |
| 1,000 - 1,500                               | 788    | 60.8                         | 13.366                    | 5,026                      | 1,180                      |
| 1,500 - 2,000                               | 785    | 60.5                         | 17.223                    | 5,420                      | 1,665                      |
| 2,000 - 2,500                               | 752    | 61.0                         | 19.938                    | 5,790                      | 2,141                      |
| 2,500 - 3,000                               | 700    | 62.0                         | 22.076                    | 6,023                      | 2,607                      |
| 3,000 - 3,500                               | 648    | 61.8                         | 24.790                    | 6,292                      | 3,093                      |
| 3,500 - 4,000                               | 629    | 61.4                         | 27.676                    | 6,395                      | 3,578                      |
| 4,000 - 4,500                               | 742    | 61.1                         | 29.810                    | 6,547                      | 4,037                      |
| 4,500 - 5,000                               | 794    | 60.8                         | 31.872                    | 6,636                      | 4,524                      |
| 5,000 - 6,000                               | 1,848  | 61.4                         | 33.886                    | 6,880                      | 5,207                      |
| 6,000 & Greater                             | 2,628  | 62.4                         | 36.885                    | 8,292                      | 6,912                      |
| Total                                       | 11,762 | 61.5 <sup>3</sup>            | 26.100 <sup>3</sup>       | \$6,371 <sup>3</sup>       | \$3,835 <sup>3</sup>       |

<sup>&</sup>lt;sup>1</sup> Does not include formerly disabled members.

 $<sup>^{2}</sup>$  As of the June 30, 2004, population report the longevity bonus is included in the Member-Only Benefit.

<sup>&</sup>lt;sup>3</sup> Overall averages.

Table 5 | Members Retired for Service During Fiscal Year 2006–07<sup>1</sup>, Classified by Age and Option Elected

|             |        |             |     |     | 0  | PTIONS | <b>5</b> <sup>2</sup> |       |     |     |
|-------------|--------|-------------|-----|-----|----|--------|-----------------------|-------|-----|-----|
| Age         | Total  | Member-Only | 2   | 3   | 4  | 5      | 6                     | 7     | 8   | 9   |
| Under 55    | 26     | 13          | 2   | 0   | 0  | 0      | 5                     | 4     | 1   | 1   |
| 55          | 261    | 162         | 2   | 0   | 1  | 0      | 58                    | 23    | 4   | 11  |
| 56          | 611    | 371         | 23  | 4   | 2  | 0      | 121                   | 66    | 0   | 24  |
| 57          | 504    | 248         | 16  | 3   | 1  | 0      | 107                   | 85    | 5   | 39  |
| 58          | 675    | 324         | 24  | 6   | 4  | 1      | 159                   | 123   | 4   | 30  |
| 59          | 859    | 378         | 49  | 6   | 0  | 1      | 201                   | 156   | 11  | 57  |
| 60          | 1,471  | 666         | 70  | 9   | 4  | 3      | 329                   | 286   | 9   | 95  |
| 61          | 1,484  | 660         | 90  | 19  | 3  | 2      | 332                   | 296   | 7   | 75  |
| 62          | 1,620  | 762         | 93  | 18  | 4  | 1      | 371                   | 250   | 21  | 100 |
| 63          | 1,135  | 598         | 45  | 10  | 1  | 1      | 230                   | 185   | 15  | 50  |
| 64          | 879    | 461         | 39  | 13  | 2  | 0      | 172                   | 144   | 11  | 37  |
| 65          | 610    | 344         | 30  | 1   | 0  | 0      | 116                   | 84    | 10  | 25  |
| 66          | 451    | 260         | 19  | 3   | 2  | 1      | 72                    | 65    | 7   | 22  |
| 67          | 252    | 156         | 11  | 6   | 0  | 0      | 42                    | 29    | 3   | 5   |
| 68          | 205    | 121         | 10  | 4   | 0  | 0      | 33                    | 22    | 4   | 11  |
| 69          | 174    | 107         | 10  | 0   | 1  | 0      | 31                    | 15    | 3   | 7   |
| 70          | 141    | 94          | 8   | 4   | 0  | 0      | 13                    | 13    | 5   | 4   |
| 71          | 110    | 72          | 7   | 2   | 1  | 2      | 13                    | 8     | 2   | 3   |
| 72          | 71     | 47          | 6   | 1   | 0  | 0      | 4                     | 8     | 2   | 3   |
| 73          | 48     | 33          | 0   | 0   | 0  | 0      | 8                     | 5     | 1   | 1   |
| 74          | 35     | 19          | 5   | 0   | 0  | 0      | 7                     | 3     | 1   | 0   |
| 75          | 23     | 15          | 2   | 0   | 1  | 1      | 2                     | 2     | 0   | 0   |
| Over 75     | 117    | 77          | 7   | 2   | 0  | 1      | 13                    | 7     | 7   | 3   |
| Age Unknown | 0      | 0           | 0   | 0   | 0  | 0      | 0                     | 0     | 0   | 0   |
| Total       | 11,762 | 5,988       | 568 | 111 | 27 | 14     | 2,439                 | 1,879 | 133 | 603 |

 $<sup>^{\</sup>rm 1}$  Does not include formerly disabled members.

<sup>&</sup>lt;sup>2</sup> Option Selected:

Option 2 - Beneficiary receives 100% of member's reduced benefit

Option 3 - Beneficiary receives 50% of member's reduced benefit

Option 4 - Beneficiary receives 2/3 of member's reduced benefit

 $Option\ 5\ -\ Survivors\ receives\ 50\%\ of\ member's\ reduced\ benefit,\ upon\ death\ of\ either\ member\ or\ beneficiary$ 

Option 6 - Beneficiary receives 100% of member's reduced benefit. If beneficiary pre-deceases the member, the benefit pops up to the Member-Only amount (known as 100% Beneficiary Option)

Option 7 - Beneficiary receives 50% of member's reduced benefit. If beneficiary pre-deceases the member, the benefit pops up to the Member-Only amount (known as 50% Beneficiary Option)

Option 8 - Compound option that allows the member to provide for more than one beneficiary (known as Compound Option)

Option 9 - Beneficiary receives 75% of member's reduced benefit. If beneficiary pre-deceases the member, the benefit pops up to the Member-Only amount (known as 75% Beneficiary Option)

Table 6 | Characteristics of Members Going on Disability

| FISCAL YEAR<br>ENDING JUNE 30 | COUNT | AVERAGE DISABILITY ALLOWANCE PAYABLE | AVERAGE SERVICE<br>CREDIT | AVERAGE FINAL COMPENSATION | AVERAGE AGE<br>AT DISABILITY |
|-------------------------------|-------|--------------------------------------|---------------------------|----------------------------|------------------------------|
| 1998                          | 451   | \$1,989                              | 14.446                    | \$3,906                    | 52.3                         |
| 1999                          | 414   | 2,114                                | 15.630                    | 4,027                      | 52.2                         |
| 2000                          | 454   | 2,124                                | 15.224                    | 4,190                      | 52.6                         |
| 2001                          | 486   | 2,270                                | 15.802                    | 4,476                      | 53.9                         |
| 2002                          | 554   | 2,272                                | 14.840                    | 4,580                      | 53.6                         |
| 2003                          | 614   | 2,385                                | 14.894                    | 4,849                      | 53.0                         |
| 2004                          | 580   | 2,409                                | 14.453                    | 4,899                      | 53.3                         |
| 2005                          | 538   | 2,488                                | 14.016                    | 5,103                      | 53.3                         |
| 2006                          | 402   | 2,522                                | 14.061                    | 5,134                      | 54.5                         |
| 2007                          | 501   | 2,579                                | 13.959                    | 5,281                      | 54.7                         |

Table 7 | Number of Benefit Recipients by Type of Benefit

| FISCAL YEAR<br>ENDING JUNE 30 | SERVICE<br>RETIREMENT | DISABILITY<br>BENEFITS | BENEFITS FOR SURVIVORS | TOTAL BENEFIT RECIPIENTS |
|-------------------------------|-----------------------|------------------------|------------------------|--------------------------|
| 1998                          | 139,193               | 5,758                  | 12,796                 | 157,747                  |
| 1999                          | 142,309               | 5,822                  | 13,326                 | 161,457                  |
| 2000                          | 145,415               | 5,885                  | 13,982                 | 165,282                  |
| 2001                          | 149,727               | 6,477                  | 14,768                 | 170,972                  |
| 2002                          | 154,884               | 6,723                  | 15,465                 | 177,072 1                |
| 2003                          | 159,172               | 6,949                  | 15,747                 | 181,868                  |
| 2004                          | 169,022               | 7,311                  | 16,912                 | 193,245                  |
| 2005                          | 176,008               | 7,571                  | 17,662                 | 201,241                  |
| 2006                          | 181,833               | 7,683                  | 18,330                 | 207,846                  |
| 2007                          | 188,659               | 7,915                  | 19,067                 | 215,641                  |

<sup>&</sup>lt;sup>1</sup> Disability and survivor counts revised in 2003.

Table 8 | Members Retired for Service Characteristics by Year of Retirement (Does not include formerly disabled members)

| EFFECTIVE DATE OF<br>RETIREMENT BY<br>SERVICE CREDIT | NUMBER OF<br>RETIREMENTS | AVERAGE<br>SERVICE CREDIT | AVERAGE<br>MEMBER-ONLY BENEFIT | AVERAGE FINAL COMPENSATION | AVERAGE AGE<br>AT RETIREMENT |
|------------------------------------------------------|--------------------------|---------------------------|--------------------------------|----------------------------|------------------------------|
| 7/1/1997 thru 6/30/1998                              |                          |                           |                                |                            |                              |
| 0 - 5                                                | 73                       | 2.5                       | \$298                          | -                          | -                            |
| 5 - 10                                               | 530                      | 7.4                       | 414                            | _                          | -                            |
| 10 - 15                                              | 572                      | 12.6                      | 834                            | -                          | -                            |
| 15 - 20                                              | 581                      | 17.7                      | 1,280                          | _                          | -                            |
| 20 - 25                                              | 884                      | 22.6                      | 1,811                          | -                          | -                            |
| 25 - 30                                              | 1,356                    | 27.7                      | 2,331                          | _                          | -                            |
| 30 - 35                                              | 1,799                    | 32.5                      | 2,817                          | -                          | -                            |
| 35 - 40                                              | 1,259                    | 37.2                      | 3,548                          | _                          | _                            |
| 40 & over                                            | 278                      | 42.0                      | 4,251                          | -                          | -                            |
| Total                                                | 7,332                    | 26.8                      | \$2,310                        | \$4,345                    | 60.8                         |
| 7/1/1998 thru 6/30/1999                              |                          |                           |                                |                            |                              |
| 0 - 5                                                | 72                       | 2.8                       | \$355                          | _                          | -                            |
| 5 - 10                                               | 459                      | 7.6                       | 491                            | -                          | -                            |
| 10 - 15                                              | 611                      | 12.6                      | 959                            | _                          | -                            |
| 15 - 20                                              | 644                      | 17.5                      | 1,394                          | -                          | -                            |
| 20 - 25                                              | 806                      | 22.6                      | 1,999                          | _                          | -                            |
| 25 - 30                                              | 1,081                    | 27.6                      | 2,574                          | -                          | -                            |
| 30 - 35                                              | 1,852                    | 32.5                      | 3,237                          | _                          | -                            |
| 35 - 40                                              | 1,312                    | 37.2                      | 4,093                          | -                          | -                            |
| 40 & over                                            | 411                      | 42.6                      | 5,147                          | _                          | -                            |
| Total                                                | 7,248                    | 27.2                      | \$2,706                        | \$4,541                    | 61.2                         |
| 7/1/1999 thru 6/30/2000                              |                          |                           |                                |                            |                              |
| 0 - 5                                                | 92                       | 2.2                       | \$279                          | -                          | -                            |
| 5 - 10                                               | 519                      | 7.6                       | 504                            | _                          | -                            |
| 10 - 15                                              | 658                      | 12.5                      | 994                            | -                          | -                            |
| 15 - 20                                              | 694                      | 17.6                      | 1,512                          | _                          | -                            |
| 20 - 25                                              | 900                      | 22.5                      | 2,099                          | -                          | -                            |
| 25 - 30                                              | 960                      | 27.4                      | 2,733                          | _                          | _                            |
| 30 - 35                                              | 1,968                    | 32.5                      | 3,487                          | -                          | -                            |
| 35 - 40                                              | 1,382                    | 37.1                      | 4,495                          | _                          | -                            |
| 40 & over                                            | 383                      | 42.3                      | 5,532                          | -                          |                              |
| Total                                                | 7,556                    | 26.8                      | \$2,872                        | \$4,688                    | 61.3                         |

Table 8 continued | Members Retired for Service Characteristics by Year of Retirement (Does not include formerly disabled members)

| EFFECTIVE DATE OF<br>RETIREMENT BY<br>SERVICE CREDIT | NUMBER OF<br>RETIREMENTS | AVERAGE<br>SERVICE CREDIT | AVERAGE<br>MEMBER-ONLY BENEFIT | AVERAGE FINAL COMPENSATION | AVERAGE AGE<br>AT RETIREMENT |
|------------------------------------------------------|--------------------------|---------------------------|--------------------------------|----------------------------|------------------------------|
| 7/1/2000 thru 6/30/2001 <sup>2</sup>                 |                          |                           |                                |                            |                              |
| 0 - 5                                                | 86                       | 2.3                       | \$226                          | -                          | -                            |
| 5 - 10                                               | 505                      | 7.3                       | 513                            | _                          | _                            |
| 10 - 15                                              | 661                      | 12.6                      | 1,067                          | -                          | -                            |
| 15 - 20                                              | 707                      | 17.4                      | 1,594                          | _                          | _                            |
| 20 - 25                                              | 821                      | 22.4                      | 2,165                          | -                          | -                            |
| 25 - 30                                              | 988                      | 27.3                      | 3,076                          | _                          | _                            |
| 30 - 35                                              | 2,446                    | 32.6                      | 4,138                          | -                          | -                            |
| 35 - 40                                              | 2,041                    | 37.2                      | 5,267                          | _                          | _                            |
| 40 & over                                            | 446                      | 42.1                      | 6,417                          | -                          | -                            |
| Total                                                | 8,701                    | 28.1                      | \$3,524                        | \$5,312                    | 61.2                         |
| 7/1/2001 thru 6/30/2002 <sup>2</sup>                 |                          |                           |                                |                            |                              |
| 0 - 5                                                | 86                       | 2.4                       | \$228                          | _                          | _                            |
| 5 - 10                                               | 499                      | 7.3                       | 512                            | -                          | -                            |
| 10 - 15                                              | 679                      | 12.6                      | 1,093                          | _                          | _                            |
| 15 - 20                                              | 860                      | 17.4                      | 1,714                          | -                          | -                            |
| 20 - 25                                              | 886                      | 22.3                      | 2,387                          | -                          | -                            |
| 25 - 30                                              | 1,081                    | 27.1                      | 3,288                          | -                          | -                            |
| 30 - 35                                              | 2,912                    | 32.7                      | 4,536                          | _                          | _                            |
| 35 - 40                                              | 2,277                    | 37.2                      | 5,738                          | -                          | -                            |
| 40 & over                                            | 482                      | 42.1                      | 6,907                          | _                          | _                            |
| Total                                                | 9,762                    | 28.3                      | \$3,869                        | \$5,686                    | 61.1                         |
| 7/1/2002 thru 6/30/2003 <sup>2</sup>                 |                          |                           |                                |                            |                              |
| 0 - 5                                                | 103                      | 2.4                       | \$206                          | -                          | -                            |
| 5 - 10                                               | 674                      | 7.2                       | 525                            | _                          | _                            |
| 10 - 15                                              | 749                      | 12.6                      | 1,149                          | -                          | -                            |
| 15 - 20                                              | 1,074                    | 17.5                      | 1,821                          | _                          | _                            |
| 20 - 25                                              | 1,063                    | 22.6                      | 2,494                          | -                          | -                            |
| 25 - 30                                              | 1,212                    | 27.1                      | 3,372                          | _                          | _                            |
| 30 - 35                                              | 3,384                    | 32.7                      | 4,640                          | -                          | -                            |
| 35 - 40                                              | 2,444                    | 37.2                      | 5,855                          | _                          | -                            |
| 40 & over                                            | 486                      | 42.3                      | 7,114                          | -                          | -                            |
| Total                                                | 11,189                   | 27.9                      | \$3,879                        | \$5,807                    | 61.2                         |

Table 8 continued | Members Retired for Service Characteristics by Year of Retirement (Does not include formerly disabled members)

| EFFECTIVE DATE OF<br>RETIREMENT BY<br>SERVICE CREDIT | NUMBER OF<br>RETIREMENTS | AVERAGE<br>SERVICE CREDIT | AVERAGE<br>MEMBER-ONLY BENEFIT | AVERAGE FINAL COMPENSATION | AVERAGE AGE<br>AT RETIREMENT |
|------------------------------------------------------|--------------------------|---------------------------|--------------------------------|----------------------------|------------------------------|
| 7/1/2003 thru 6/30/2004 <sup>2</sup>                 |                          |                           |                                |                            |                              |
| 0 - 5                                                | 116                      | 2.4                       | \$242                          | -                          | -                            |
| 5 - 10                                               | 883                      | 7.2                       | 559                            | _                          | _                            |
| 10 - 15                                              | 944                      | 12.6                      | 1,178                          | -                          | -                            |
| 15 - 20                                              | 1,277                    | 17.6                      | 1,864                          | _                          | _                            |
| 20 - 25                                              | 1,200                    | 22.5                      | 2,614                          | -                          | -                            |
| 25 - 30                                              | 1,393                    | 27.1                      | 3,416                          | _                          | _                            |
| 30 - 35                                              | 3,495                    | 32.6                      | 4,761                          | -                          | -                            |
| 35 - 40                                              | 2,477                    | 37.2                      | 5,919                          | -                          | _                            |
| 40 & over                                            | 516                      | 42.1                      | 7,255                          | -                          | -                            |
| Total                                                | 12,301                   | 27.1                      | \$3,817                        | \$5,891                    | 61.2                         |
| 7/1/2004 thru 6/30/2005 <sup>2</sup>                 |                          |                           |                                |                            |                              |
| 0 - 5                                                | 122                      | 2.5                       | \$268                          | -                          | _                            |
| 5 - 10                                               | 1,008                    | 7.2                       | 591                            | -                          | -                            |
| 10 - 15                                              | 897                      | 12.6                      | 1,170                          | -                          | -                            |
| 15 - 20                                              | 1,311                    | 17.5                      | 1,906                          | -                          | -                            |
| 20 - 25                                              | 1,286                    | 22.3                      | 2,579                          | -                          | -                            |
| 25 - 30                                              | 1,217                    | 27.0                      | 3,475                          | -                          | -                            |
| 30 - 35                                              | 3,208                    | 32.5                      | 4,847                          | -                          | -                            |
| 35 - 40                                              | 2,162                    | 37.2                      | 6,100                          | -                          | -                            |
| 40 & over                                            | 413                      | 42.0                      | 7,422                          | _                          | -                            |
| Total                                                | 11,624                   | 26.3                      | \$3,744                        | \$5,944                    | 61.7                         |
| 7/1/2005 thru 6/30/2006 <sup>2</sup>                 |                          |                           |                                |                            |                              |
| 0 - 5                                                | 115                      | 2.4                       | \$281                          | \$5,724                    | 61.2                         |
| 5 - 10                                               | 980                      | 7.3                       | 607                            | 4,056                      | 61.7                         |
| 10 - 15                                              | 919                      | 12.5                      | 1,197                          | 4,756                      | 61.2                         |
| 15 - 20                                              | 1,235                    | 17.6                      | 1,935                          | 5,387                      | 61.2                         |
| 20 - 25                                              | 1,198                    | 22.2                      | 2,631                          | 5,758                      | 61.3                         |
| 25 - 30                                              | 1,143                    | 27.0                      | 3,678                          | 6,423                      | 61.9                         |
| 30 - 35                                              | 2,843                    | 32.5                      | 4,982                          | 6,685                      | 60.4                         |
| 35 - 40                                              | 2,091                    | 37.2                      | 6,279                          | 7,024                      | 61.2                         |
| 40 & over                                            | 353                      | 42.2                      | 7,575                          | 7,163                      | 65.1                         |
| Total                                                | 10,877                   | 26.0                      | \$3,810                        | \$6,079                    | 61.2                         |

Table 8 continued | Members Retired for Service Characteristics by Year of Retirement (Does not include formerly disabled members)

| EFFECTIVE DATE OF<br>RETIREMENT BY<br>SERVICE CREDIT | NUMBER OF<br>RETIREMENTS | AVERAGE<br>SERVICE CREDIT | AVERAGE<br>MEMBER-ONLY BENEFIT | AVERAGE FINAL COMPENSATION | AVERAGE AGE<br>AT RETIREMENT |
|------------------------------------------------------|--------------------------|---------------------------|--------------------------------|----------------------------|------------------------------|
| 7/1/2006 thru 6/30/2007 <sup>2</sup>                 |                          |                           |                                |                            |                              |
| 0 - 5                                                | 105                      | 2.5                       | \$253                          | \$5,127                    | 61.0                         |
| 5 - 10                                               | 1,080                    | 7.3                       | 620                            | 4,075                      | 62.0                         |
| 10 - 15                                              | 1,019                    | 12.4                      | 1,239                          | 4,874                      | 61.4                         |
| 15 - 20                                              | 1,311                    | 17.5                      | 2,039                          | 5,625                      | 61.5                         |
| 20 - 25                                              | 1,248                    | 22.2                      | 2,802                          | 5,987                      | 61.8                         |
| 25 - 30                                              | 1,249                    | 27.1                      | 3,847                          | 6,678                      | 62.0                         |
| 30 - 35                                              | 3,078                    | 32.5                      | 5,312                          | 7,087                      | 60.6                         |
| 35 - 40                                              | 2,259                    | 37.3                      | 6,680                          | 7,434                      | 61.4                         |
| 40 & over                                            | 413                      | 42.2                      | 8,151                          | 7,830                      | 65.0                         |
| Total                                                | 11,762                   | 26.1                      | \$4,059                        | \$6,372                    | 61.5                         |

 $<sup>^{\</sup>mbox{\tiny 1}}$  Does not include formerly disabled members.

Table 9 | All Members Retired for Service Characteristics<sup>1</sup>

| FISCAL YEAR<br>ENDING JUNE 30 | AVERAGE AGE<br>AT RETIREMENT | AVERAGE YEARS OF<br>SERVICE CREDIT | AVERAGE FINAL COMPENSATION | AVERAGE CURRENT<br>BENEFIT PAYABLE |
|-------------------------------|------------------------------|------------------------------------|----------------------------|------------------------------------|
| 1998                          | 60.8                         | 24.7                               | \$2,945                    | \$1,638                            |
| 1999                          | 60.7                         | 24.8                               | 3,057                      | 1,729                              |
| 2000                          | 60.7                         | 25.0                               | 3,175                      | 1,824                              |
| 2001                          | 60.7                         | 25.4                               | 3,356                      | 2,033                              |
| 2002                          | 60.7                         | 25.7                               | 3,539                      | 2,183                              |
| 2003                          | 60.7                         | 25.9                               | 3,735                      | 2,339                              |
| 2004                          | 60.7                         | 26.0                               | 3,931                      | 2,488                              |
| 2005                          | 60.8                         | 26.1                               | 4,103                      | 2,617                              |
| 2006                          | 60.8                         | 26.2                               | 4,264                      | 2,741                              |
| 2007                          | 60.8                         | 26.3                               | 4,437                      | 2,878                              |

<sup>&</sup>lt;sup>1</sup> Does not include formerly disabled members.

 $<sup>^{\</sup>rm 2}$  The Average Member-Only Benefit for this fiscal year includes the longevity bonus.

Table 10 | All Retired Members by Type of Benefit and Option Elected

|                                                 |         | TYPE (  | OF BENE | FIT <sup>1</sup> |                           |        |        | OPTION | ELECTE | ) <sup>2</sup> |        |       |       |
|-------------------------------------------------|---------|---------|---------|------------------|---------------------------|--------|--------|--------|--------|----------------|--------|-------|-------|
| Monthly<br>Member-<br>Only Benefit <sup>3</sup> | Total   | 1 4     | 2       | 3                | Member-<br>Only<br>Amount | 2      | 3      | 4      | 5      | 6              | 7      | 8     | 9     |
| Less than \$500                                 | 20,430  | 17,193  | 250     | 2,987            | 15,274                    | 2,300  | 807    | 83     | 101    | 1,153          | 532    | 58    | 122   |
| 500 - 1,000                                     | 28,421  | 23,827  | 1,033   | 3,561            | 19,206                    | 3,295  | 2,045  | 138    | 128    | 1,961          | 1,344  | 52    | 252   |
| 1,000 - 1,500                                   | 28,197  | 23,501  | 1,152   | 3,544            | 16,763                    | 3,709  | 2,292  | 262    | 179    | 2,399          | 2,167  | 49    | 377   |
| 1,500 - 2,000                                   | 27,175  | 22,738  | 1,697   | 2,740            | 15,269                    | 3,205  | 1,611  | 509    | 205    | 2,775          | 3,082  | 63    | 456   |
| 2,000 - 2,500                                   | 24,995  | 20,681  | 2,071   | 2,243            | 12,964                    | 2,836  | 1,234  | 440    | 236    | 3,191          | 3,500  | 96    | 498   |
| 2,500 - 3,000                                   | 19,289  | 16,639  | 1,198   | 1,452            | 9,304                     | 2,063  | 725    | 333    | 139    | 3,169          | 3,013  | 76    | 467   |
| 3,000 - 3,500                                   | 13,843  | 12,519  | 379     | 945              | 6,264                     | 1,384  | 451    | 269    | 77     | 2,653          | 2,279  | 77    | 389   |
| 3,500 - 4,000                                   | 9,979   | 9,356   | 91      | 532              | 4,412                     | 904    | 304    | 177    | 57     | 1,983          | 1,771  | 64    | 307   |
| 4,000 - 4,500                                   | 8,744   | 8,373   | 27      | 344              | 3,682                     | 738    | 235    | 106    | 41     | 1,803          | 1,748  | 92    | 299   |
| 4,500 - 5,000                                   | 8,236   | 8,005   | 8       | 223              | 3,476                     | 638    | 214    | 75     | 31     | 1,865          | 1,567  | 75    | 295   |
| 5,000 - 6,000                                   | 14,041  | 13,733  | 6       | 302              | 5,870                     | 1,045  | 304    | 121    | 37     | 3,286          | 2,639  | 175   | 564   |
| 6,000 & Greater                                 | 12,291  | 12,094  | 3       | 194              | 4,472                     | 1,187  | 268    | 117    | 37     | 3,330          | 2,154  | 215   | 511   |
| Total                                           | 215,641 | 188,659 | 7,915   | 19,067           | 116,956                   | 23,304 | 10,490 | 2,630  | 1,268  | 29,568         | 25,796 | 1,092 | 4,537 |

<sup>&</sup>lt;sup>1</sup> Type of Benefit:

Option 6 - Beneficiary receives 100% of member's reduced benefit. If beneficiary pre-deceases the member, the benefit pops up to the Member-Only amount (known as 100% Beneficiary Option).

Option 7 - Beneficiary receives 50% of member's reduced benefit. If beneficiary pre-deceases the member, the benefit pops up to the Member-Only amount (known as 50% Beneficiary Option).

Option 8 - Compound option that allows the member to provide for more than one beneficiary (known as Compound Option).

Option 9 - Beneficiary receives 75% of member's reduced benefit. If beneficiary pre-deceases the member, the benefit pops up to the Member-Only amount (known as 75% Beneficiary Option).

<sup>1)</sup> Service Retirement.

<sup>2)</sup> Disability Benefits.

Benefits to Survivors.

<sup>&</sup>lt;sup>2</sup> Option Selected:

Option 2 - Beneficiary receives 100% of member's reduced benefit.

Option 3 - Beneficiary receives 50% of member's reduced benefit.

Option 4 - Beneficiary receives 2/3 of member's reduced benefit.

Option 5 - Survivors receives 50% of member's reduced benefit, upon death of either member or beneficiary.

 $<sup>^{3}</sup>$  As of the June 30, 2004, population report, the longevity bonus is included in the Member-Only Benefit.

<sup>&</sup>lt;sup>4</sup> Does not include formerly disabled members.

Table 1 | Change in Net Assets (dollars in millions)

| FISCAL YEAR ENDING JUNE 30      | 2007      | 2006      | 2005    | 2004    | 2003    | 2002    | 2001    |
|---------------------------------|-----------|-----------|---------|---------|---------|---------|---------|
| Additions                       |           |           |         |         |         |         |         |
| Member Contributions            | \$638.5   | \$599.1   | \$574.1 | \$565.8 | \$532.6 | \$487.2 | \$210.2 |
| Employer Contributions          | 111.4     | 104.0     | 95.6    | 125.3   | 72.2    | 0.0     | 0.0     |
| Investment Income               | 798.1     | 339.0     | 235.5   | 247.6   | 63.9    | (27.7)  | (0.2)   |
| Total Additions                 | \$1,548.0 | \$1,042.1 | \$905.2 | \$938.7 | \$668.7 | \$459.5 | \$210.0 |
| Deductions                      |           |           |         |         |         |         |         |
| Benefit Payments to Members     | \$97.2    | \$98.0    | \$75.4  | \$42.0  | \$0.6   | \$0.1   | \$0.0   |
| Refunds of Member Contributions | 18.0      | 14.0      | 8.6     | 3.1     | 0.7     | 0.0     | 0.0     |
| Administration Expenses         | 2.5       | 2.0       | 1.7     | 1.2     | 0.6     | 0.3     | 0.1     |
| Other Expense                   | 0.0       | 0.0       | 0.0     | 0.0     | 0.0     | 3.9     | 0.0     |
| Total Deductions                | \$117.7   | \$114.0   | \$85.7  | \$46.3  | \$1.9   | \$4.3   | \$0.1   |
| Change in Net Assets            | \$1,430.3 | \$928.1   | \$819.5 | \$892.4 | \$666.8 | \$455.2 | \$209.9 |

There may be immaterial rounding differences between the figures presented in this table and in the Statement of Changes in Fiduciary Net Assets.

Defined Benefit Supplement Program began in 2001.

Table 2 | Benefit and Refund Deductions from Net Assets by Type (dollars in millions)

| FISCAL YEAR ENDING JUNE 30                | 2007   | 2006   | 2005   | 2004   | 2003  | 2002  | 2001  |
|-------------------------------------------|--------|--------|--------|--------|-------|-------|-------|
| Type of Benefit<br>Age & Service Benefits |        |        |        |        |       |       |       |
| Retired Members                           | \$91.3 | \$94.0 | \$71.4 | \$39.0 | \$0.5 | \$0.0 | \$0.0 |
| Survivors                                 | 0.2    | 0.1    | 0.0    | 0.2    | 0.0   | 0.0   | 0.0   |
| Death                                     | 2.6    | 1.9    | 2.0    | 1.1    | 0.1   | 0.1   | 0.0   |
| Disability Benefits                       |        |        |        |        |       |       |       |
| Retired Members                           | 3.1    | 2.0    | 2.0    | 1.6    | 0.0   | 0.0   | 0.0   |
| Total Benefits                            | \$97.2 | \$98.0 | \$75.4 | \$42.0 | \$0.6 | \$0.1 | \$0.0 |
| Type of Refund                            |        |        |        |        |       |       |       |
| Separation                                | \$18.0 | \$14.0 | \$8.6  | \$3.1  | \$0.7 | \$0.0 | \$0.0 |
| Total Refunds                             | \$18.0 | \$14.0 | \$8.6  | \$3.1  | \$0.7 | \$0.0 | \$0.0 |

There may be immaterial rounding differences between the figures presented in this table and in the Statement of Changes in Fiduciary Net Assets. Defined Benefit Supplement Program began in 2001.

Table 3  $\mid$  Members Retired for Service During Fiscal Year 2006–07  $^{\rm 1}$ , Classified by Age and Option Elected

|                |       |                                |                             | ANNUITIES                      |                               |                               |             |            |            |            |            |            |            |            |
|----------------|-------|--------------------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------------|-------------|------------|------------|------------|------------|------------|------------|------------|
|                |       |                                | F                           | Regular Annu                   | ity                           |                               |             |            | Peri       | od Cert    | ain Ann    | uity       |            |            |
| Age            | Total | Single Life<br>Without<br>Cash | Single<br>Life with<br>Cash | 100%<br>Beneficiary<br>Annuity | 75%<br>Beneficiary<br>Annuity | 50%<br>Beneficiary<br>Annuity | 10<br>Years | 9<br>Years | 8<br>Years | 7<br>Years | 6<br>Years | 5<br>Years | 4<br>Years | 3<br>Years |
| Under 55       | 16    | 1                              | 5                           | 3                              | 0                             | 2                             | 0           | 1          | 0          | 0          | 0          | 1          | 1          | 2          |
| 55             | 210   | 9                              | 51                          | 32                             | 0                             | 11                            | 22          | 0          | 0          | 5          | 2          | 32         | 2          | 44         |
| 56             | 184   | 8                              | 51                          | 23                             | 2                             | 4                             | 12          | 1          | 1          | 4          | 1          | 25         | 11         | 41         |
| 57             | 221   | 5                              | 41                          | 37                             | 3                             | 11                            | 22          | 3          | 6          | 3          | 2          | 30         | 1          | 57         |
| 58             | 318   | 9                              | 55                          | 61                             | 4                             | 9                             | 19          | 7          | 4          | 11         | 1          | 52         | 12         | 74         |
| 59             | 387   | 5                              | 65                          | 70                             | 6                             | 17                            | 23          | 4          | 2          | 8          | 18         | 67         | 11         | 91         |
| 60             | 663   | 17                             | 105                         | 117                            | 14                            | 38                            | 62          | 8          | 1          | 9          | 18         | 136        | 12         | 126        |
| 61             | 581   | 15                             | 95                          | 95                             | 7                             | 32                            | 57          | 7          | 3          | 6          | 8          | 128        | 33         | 95         |
| 62             | 646   | 19                             | 132                         | 104                            | 9                             | 28                            | 66          | 8          | 4          | 7          | 8          | 107        | 27         | 127        |
| 63             | 430   | 18                             | 90                          | 75                             | 4                             | 26                            | 39          | 7          | 6          | 7          | 4          | 52         | 11         | 91         |
| 64             | 258   | 6                              | 66                          | 32                             | 3                             | 17                            | 26          | 2          | 1          | 2          | 5          | 37         | 4          | 57         |
| 65             | 222   | 9                              | 49                          | 38                             | 2                             | 11                            | 29          | 3          | 1          | 1          | 2          | 37         | 3          | 37         |
| 66             | 162   | 7                              | 49                          | 23                             | 7                             | 10                            | 11          | 0          | 0          | 0          | 1          | 23         | 5          | 26         |
| 67             | 106   | 4                              | 24                          | 14                             | 0                             | 6                             | 15          | 0          | 1          | 1          | 1          | 16         | 3          | 21         |
| 68             | 68    | 5                              | 11                          | 9                              | 2                             | 0                             | 9           | 0          | 0          | 1          | 0          | 11         | 1          | 19         |
| 69             | 57    | 3                              | 14                          | 6                              | 3                             | 2                             | 8           | 0          | 0          | 0          | 2          | 10         | 2          | 7          |
| 70             | 39    | 1                              | 6                           | 11                             | 0                             | 3                             | 5           | 0          | 0          | 0          | 0          | 6          | 2          | 5          |
| 71             | 41    | 1                              | 11                          | 5                              | 2                             | 1                             | 3           | 0          | 1          | 1          | 0          | 7          | 1          | 8          |
| 72             | 23    | 1                              | 6                           | 2                              | 0                             | 2                             | 3           | 0          | 0          | 0          | 0          | 5          | 0          | 4          |
| 73             | 14    | 0                              | 6                           | 2                              | 0                             | 0                             | 0           | 0          | 0          | 1          | 0          | 2          | 0          | 3          |
| 74             | 17    | 0                              | 6                           | 5                              | 0                             | 0                             | 0           | 0          | 0          | 0          | 1          | 3          | 0          | 2          |
| 75             | 13    | 1                              | 6                           | 2                              | 0                             | 0                             | 2           | 0          | 0          | 0          | 0          | 0          | 0          | 2          |
| Over 75        | 39    | 0                              | 7                           | 4                              | 1                             | 5                             | 4           | 0          | 0          | 0          | 1          | 9          | 0          | 8          |
| Age<br>Unknown | 0     | 0                              | 0                           | 0                              | 0                             | 0                             | 0           | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
| Total          | 4,715 | 144                            | 951                         | 770                            | 69                            | 235                           | 437         | 51         | 31         | 67         | 75         | 796        | 142        | 947        |

 $<sup>^{\</sup>mbox{\tiny 1}}$  Does not include formerly disabled members.

Table 4 | Characteristics of All Members Retired for Service and Receiving an Annuity

| FISCAL YEAR<br>ENDING JUNE 30 | COUNT  | AVERAGE RETIREMENT<br>ANNUITY PAYABLE | AVERAGE ACCOUNT<br>BALANCE <sup>2</sup> | AVERAGE AGE<br>AT RETIREMENT |
|-------------------------------|--------|---------------------------------------|-----------------------------------------|------------------------------|
| 20021                         |        |                                       | -                                       | 0                            |
| 2003                          |        |                                       | -                                       | 0                            |
| 2004                          | 1,902  | \$94                                  | \$3,120                                 | 61.1                         |
| 2005                          | 5,394  | 118                                   | 4,317                                   | 61.3                         |
| 2006                          | 9,153  | 138                                   | 5,257                                   | 61.3                         |
| 2007                          | 13,299 | 158                                   | 6,379                                   | 61.4                         |

<sup>&</sup>lt;sup>1</sup>The Defined Benefit Supplement Program was established January 1, 2001. As of June 30, 2003, all members who had retired or become disabled had elected a lump-sum distribution.

Table 5 | Characteristics of All Members Retired for Disability and Receiving an Annuity

|                               |       | Total                              |                                          |                              |
|-------------------------------|-------|------------------------------------|------------------------------------------|------------------------------|
| FISCAL YEAR<br>ENDING JUNE 30 | COUNT | AVERAGE DISABILITY ANNUITY PAYABLE | AVERAGE ACCUMULATED CREDITS <sup>2</sup> | AVERAGE AGE<br>AT DISABILITY |
| 20021                         | 0     | -                                  | _                                        | _                            |
| 2003                          | 0     | -                                  | -                                        | -                            |
| 2004                          | 25    | \$82                               | \$2,152                                  | 55.4                         |
| 2005                          | 52    | 94                                 | 2,765                                    | 55.2                         |
| 2006                          | 76    | 106                                | 3,335                                    | 55.8                         |
| 2007                          | 125   | 121                                | 4,367                                    | 55.6                         |

<sup>&</sup>lt;sup>1</sup> The Defined Benefit Supplement Program was established January 1, 2001. As of June 30, 2003, all members who had retired or become disabled had elected a lump-sum distribution.

<sup>&</sup>lt;sup>2</sup> Neither service credit nor final compensation are factors in determining a benefit from the Defined Benefit Supplement Program and therefore are not included in this table.

<sup>&</sup>lt;sup>2</sup> Neither service credit nor final compensation are factors in determining a benefit from the Defined Benefit Supplement Program and therefore are not included in this table.

Table 6 | Retired Members by Type of Benefit and Option Elected

|                                                 |                 | MONTHLY   | MEMBER-ONLY | BENEFIT     |                      |        |
|-------------------------------------------------|-----------------|-----------|-------------|-------------|----------------------|--------|
| Type of Benefit                                 | Less than \$250 | \$250-500 | \$500-750   | \$750–1,000 | \$1,000 &<br>Greater | Total  |
| Retirement                                      | 10,687          | 2,365     | 217         | 23          | 7                    | 13,299 |
| Disability                                      | 115             | 8         | 2           | 0           | 0                    | 125    |
| Survivors                                       | 108             | 23        | 5           | 0           | 1                    | 137    |
| Total                                           | 10,910          | 2,396     | 224         | 23          | 8                    | 13,561 |
| Type of Payment<br>Regular Annuity <sup>1</sup> |                 |           |             |             |                      |        |
| A                                               | 1,148           | 2         | 0           | 0           | 0                    | 1,150  |
| В                                               | 1,991           | 9         | 0           | 0           | 0                    | 2,000  |
| С                                               | 2,346           | 12        | 0           | 0           | 0                    | 2,358  |
| D                                               | 164             | 3         | 0           | 0           | 0                    | 167    |
| E                                               | 579             | 3         | 0           | 0           | 0                    | 582    |
| Period-Certain Annuity                          |                 |           |             |             |                      |        |
| 10 Year                                         | 1,261           | 45        | 5           | 0           | 0                    | 1,311  |
| 9 Year                                          | 156             | 11        | 1           | 0           | 0                    | 168    |
| 8 Year                                          | 114             | 9         | 0           | 0           | 0                    | 123    |
| 7 Year                                          | 180             | 21        | 2           | 1           | 0                    | 204    |
| 6 Year                                          | 209             | 23        | 3           | 0           | 0                    | 235    |
| 5 Year                                          | 1,744           | 495       | 35          | 5           | 1                    | 2,280  |
| 4 Year                                          | 298             | 175       | 13          | 2           | 0                    | 488    |
| 3 Year                                          | 720             | 1,588     | 165         | 15          | 7                    | 2,495  |
| Total                                           | 10,910          | 2,396     | 224         | 23          | 8                    | 13,561 |

<sup>&</sup>lt;sup>1</sup> Regular Annuity.

A - Single Life Without Cash Refund.

B - Single Life With Cash Refund.

C - 100% Beneficiary Annuity (formerly 100% Joint and Survivor Annuity).

D - 75% Beneficiary Annuity (new annuity available for selection effective January 1, 2007).

E - 50% Beneficiary Annuity (formerly 50% Joint and Survivor Annuity).

Table 7 | Largest Participating Employers for Current Year and Nine Years Ago

|                             |                   | 2007 | ,                          |                   | 1998 |                            |
|-----------------------------|-------------------|------|----------------------------|-------------------|------|----------------------------|
| PARTICIPATING<br>GOVERNMENT | COVERED EMPLOYEES | RANK | PERCENTAGE OF TOTAL SYSTEM | COVERED EMPLOYEES | RANK | PERCENTAGE OF TOTAL SYSTEM |
| Los Angeles USD             | 49,351            | 1    | 9.70%                      | 43,969            | 1    | 10.25%                     |
| San Diego City USD          | 10,956            | 2    | 2.10                       | 9,329             | 2    | 2.18                       |
| Long Beach USD              | 6,663             | 3    | 1.30                       | 5,230             | 4    | 1.22                       |
| Fresno USD                  | 5,848             | 4    | 1.10                       | 5,647             | 3    | 1.32                       |
| Elk Grove USD               | 4,435             | 5    | 0.87                       |                   |      |                            |
| San Bernardino City USD     | 4,263             | 6    | 0.83                       | 2,863             | 10   | 0.67                       |
| San Francisco USD           | 4,254             | 7    | 0.83                       | 4,679             | 5    | 1.09                       |
| Sacramento City USD         | 3,779             | 8    | 0.74                       | 3,867             | 7    | 0.86                       |
| San Juan USD                | 3,617             | 9    | 0.71                       | 3,707             | 8    | 1.03                       |
| Oakland USD                 | 3,562             | 10   | 0.70                       | 4,399             | 6    | 1.03                       |
| Santa Ana USD               |                   |      |                            | 3,267             | 9    | 0.76                       |
| All Other                   | 414,273           |      | 81.08                      | 341,992           |      | 79.72                      |
| Total (64 Counties)         | 511,001           |      | 100.00%                    | 428,949           |      | 100.00%                    |

Table 1 | Change in Net Assets (dollars in thousands)

| FISCAL YEAR<br>ENDING JUNE 30           | 2007       | 2006        | 2005        | 2004       | 2003      | 2002                 | 2001      | 2000 (3)  | 1999    | 1998      |
|-----------------------------------------|------------|-------------|-------------|------------|-----------|----------------------|-----------|-----------|---------|-----------|
| Additions                               |            |             |             |            |           |                      |           |           |         |           |
| Participant Contributions               | \$5,952.9  | \$5,503.4   | \$4,149.1   | \$3,866.6  | \$3,580.9 | \$3,535.1            | \$2,936.1 | \$2,589.8 | \$550.0 | \$772.0   |
| Employer Contributions                  | 5,930.5    | 5,102.3     | 4,490.1     | 3,844.9    | 3,589.6   | 3,586.0              | 3,035.0   | 2,364.8   | 560.0   | 772.0     |
| Investment Income                       | 14,093.1   | 6,111.4     | 4,540.2     | 5,384.4    | 1,381.9   | (943.8)              | (942.2)   | 812.0     | (183.0) | 105.0     |
| Total Additions                         | \$25,976.5 | \$16,717.1  | \$13,179.4  | \$13,095.9 | \$8,552.4 | \$6,177.3            | \$5,028.9 | \$5,766.6 | \$927.0 | \$1,649.0 |
| Deductions                              |            |             |             |            |           |                      |           |           |         |           |
| Benefit Payments<br>to Participant      | \$883.9 1  | \$1,329.7 1 | \$1,235.2 1 | \$580.3    | \$188.0   | \$105.5 <sup>2</sup> | \$0.0     | \$0.0     | \$0.0   | \$0.0     |
| Refunds of Participant<br>Contributions | 664.3      | 472.4       | 244.8       | 196.7      | 132.5     | 89.8 2               | 118.7     | 58.5      | 3.0     | 0.0       |
| Administration Expense                  | 44.1       | 36.0        | 34.0        | 27.7       | 16.8      | 10.8                 | 8.2       | 4.8       | 387.0   | 397.0     |
| Other Expense                           | 0.0        | 0.0         | 0.0         | 0.0        | 0.0       | 0.0                  | 0.0       | 0.0       | 42.0    | 69.0      |
| Total Deductions                        | \$1,592.3  | \$1,838.1   | \$1,514.0   | \$804.7    | \$337.3   | \$206.1              | \$126.9   | \$63.3    | \$432.0 | \$466.0   |
| Change in Net Assets                    | \$24,384.2 | \$14,879.0  | \$11,665.4  | \$12,291.2 | \$8,215.1 | \$5,971.2            | \$4,902.0 | \$5,703.3 | \$495.0 | \$1,183.0 |

There may be immaterial rounding differences between the figures presented in this table and in the Statement of Changes in Fiduciary Net Assets.

Table 2 | Benefit and Refund Deductions from Net Assets by Type (dollars in thousands)

| FISCAL YEAR<br>ENDING JUNE 30             | 2007    | 2006        | 2005        | 2004      | 2003    | 2002    | 2001    | 2000   | 1999  | 1998  |
|-------------------------------------------|---------|-------------|-------------|-----------|---------|---------|---------|--------|-------|-------|
| Type of Benefit<br>Age & Service Benefits |         |             |             |           |         |         |         |        |       |       |
| Retired Members                           | \$829.6 | \$1,237.0 1 | \$1,143.2 1 | \$535.4 1 | \$132.2 | \$82.7  | \$0.0   | \$0.0  | \$0.0 | \$0.0 |
| Death                                     | 48.0    | 91.4        | 92.0        | 44.9      | 48.3    | 22.8    | 0.0     | 0.0    | 0.0   | 0.0   |
| Disability Benefits                       |         |             |             |           |         |         |         |        |       |       |
| Retired Members                           | 5.8     | 1.3         | 0.0         | 0.0       | 7.5     | 0.0     | 0.0     | 0.0    | 0.0   | 0.0   |
| Total Benefits                            | \$883.4 | \$1,329.7   | \$1,235.2   | \$580.3   | \$188.0 | \$105.5 | \$0.0   | \$0.0  | \$0.0 | \$0.0 |
| Type of Refund                            |         |             |             |           |         |         |         |        |       |       |
| Separation                                | \$664.3 | \$472.4     | \$244.8     | \$196.7   | \$132.5 | \$89.8  | \$118.7 | \$58.5 | \$3.0 | \$0.0 |
| Total Refunds                             | \$664.3 | \$472.4     | \$244.8     | \$196.7   | \$132.5 | \$89.8  | \$118.7 | \$58.5 | \$3.0 | \$0.0 |

There may be immaterial rounding differences between the figures presented in this table and in the Statement of Changes in Fiduciary Net Assets.

<sup>&</sup>lt;sup>1</sup> The benefit payments for fiscal years 2003–04, 2004–05, 2005–06 and 2006–07 include member-elected administrative transfers to purchase service credit in the Defined Benefit Program. The amounts were \$220,255, \$603,499, \$594,133 and \$278,210, respectively.

<sup>&</sup>lt;sup>2</sup> In prior years, all payments were categorized as refunds, however, in fiscal year 2001–02, benefit payments and refunds were identified separately.

<sup>&</sup>lt;sup>3</sup> Due to the merger of the Cash Balance Plan with the Teachers' Retirement Plan in fiscal year 1999–00, there was a decrease in administrative expenses. These expenses were absorbed by the Teachers' Retirement Plan (California Education Code 22001.5 and 26000).

<sup>&</sup>lt;sup>1</sup> The benefit payments for fiscal years 2003–04, 2004–05, and 2005–06 include member-elected administrative transfers to purchase service credit in the Defined Benefit Program. The amounts were \$220,255, \$603,499, and \$594,133, respectively.

Table 3 | Members Retired for Service During Fiscal Year 2006–07¹ Classified by Age and Type of Annuity Selected

|           | REGULAR ANNUITY |                               |                      |                     |                     |             |            | PERI       | OD CER     | TAIN AN    | NUITY      |            |            |
|-----------|-----------------|-------------------------------|----------------------|---------------------|---------------------|-------------|------------|------------|------------|------------|------------|------------|------------|
| Age       | Total           | Participant Only <sup>2</sup> | 100%<br>Beneficiary³ | 75%<br>Beneficiary⁴ | 50%<br>Beneficiary⁵ | 10<br>Years | 9<br>Years | 8<br>Years | 7<br>Years | 6<br>Years | 5<br>Years | 4<br>Years | 3<br>Years |
| Under 55  |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 55        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 56        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 57        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 58        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 59        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 60        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 61        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 62        | 1               |                               |                      |                     |                     |             | 1          |            |            |            |            |            |            |
| 63        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 64        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 65        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 66        | 1               | 1                             |                      |                     |                     |             |            |            |            |            |            |            |            |
| 67        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 68        | 1               |                               |                      |                     |                     |             |            |            |            |            |            |            | 1          |
| 69        | 1               |                               |                      |                     |                     |             |            |            |            |            | 1          |            |            |
| 70        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 71        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 72        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 73        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 74        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| 75        |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| Over 75   | 1               |                               |                      |                     |                     |             |            |            |            |            | 1          |            |            |
| e Unknown |                 |                               |                      |                     |                     |             |            |            |            |            |            |            |            |
| Total     | 5               | 1                             | 0                    | 0                   | 0                   | 0           | 1          | 0          | 0          | 0          | 2          | 0          | 1          |

<sup>&</sup>lt;sup>1</sup> Does not include formerly disabled members.

 $<sup>^{\</sup>rm 2}$  Formerly known as the Single Life Annuity with Cash Refund.

<sup>&</sup>lt;sup>3</sup> Formerly known as the 100% Joint and Survivor Annuity.

<sup>&</sup>lt;sup>4</sup> New annuity available for selection effective 1/1/2007.

<sup>&</sup>lt;sup>5</sup> Formerly known as the 50% Joint and Survivor Annuity.

Table 4 | Characteristics of All Members Retired for Service and Receiving an Annuity

| FISCAL YEAR<br>ENDING JUNE 30 <sup>1</sup> | AVERAGE AGE<br>AT RETIREMENT | AVERAGE ACCOUNT<br>BALANCE <sup>2</sup> | AVERAGE CURRENT<br>BENEFIT PAYABLE |
|--------------------------------------------|------------------------------|-----------------------------------------|------------------------------------|
| 2002                                       |                              |                                         |                                    |
| 2003                                       |                              |                                         |                                    |
| 2004                                       | 67.8                         | \$10,344                                | \$134                              |
| 2005                                       | 65.0                         | 13,187                                  | 191                                |
| 2006                                       | 67.5 <sup>3</sup>            | 11,596                                  | 185                                |
| 2007                                       | 66.9                         | 10,892                                  | 183                                |

<sup>&</sup>lt;sup>1</sup> The Cash Balance Benefit Program was established July 1, 1996. As of June 30, 2003, all participants who had retired or become disabled had elected a lump-sum distribution. No annuities had been paid.

Table 5 | All Participants Receiving an Annuity During Fiscal Year 2006–07 by Type of Benefit and Type of Annuity Selected

| MONTHLY MEMBER-ONLY BENEFIT  |                 |           |           |             |                   |       |  |  |
|------------------------------|-----------------|-----------|-----------|-------------|-------------------|-------|--|--|
| Type of Benefit              | Less than \$250 | \$250-500 | \$500-750 | \$750-1,000 | \$1,000 & Greater | Total |  |  |
| Retirement                   | 12              | 4         | 0         | 0           | 0                 | 16    |  |  |
| Disability                   | 0               | 0         | 0         | 0           | 0                 | 0     |  |  |
| Survivors                    | 0               | 0         | 0         | 0           | 0                 | 0     |  |  |
| Total                        | 12              | 4         | 0         | 0           | 0                 | 16    |  |  |
| Type of Payment              |                 |           |           |             |                   |       |  |  |
| Regular Annuity <sup>1</sup> |                 |           |           |             |                   |       |  |  |
| A                            | 2               |           |           |             |                   | 2     |  |  |
| В                            | 3               |           |           |             |                   | 3     |  |  |
| С                            |                 |           |           |             |                   | 0     |  |  |
| D                            |                 |           |           |             |                   | 0     |  |  |
| E                            |                 |           |           |             |                   | 0     |  |  |
| Period-Certain Annuity       |                 |           |           |             |                   |       |  |  |
| 10 Year                      | 1               |           |           |             |                   | 1     |  |  |
| 9 Year                       | 1               |           |           |             |                   | 1     |  |  |
| 8 Year                       |                 |           |           |             |                   | 0     |  |  |
| 7 Year                       |                 |           |           |             |                   | 0     |  |  |
| 6 Year                       |                 |           |           |             |                   | 0     |  |  |
| 5 Year                       | 4               | 2         |           |             |                   | 6     |  |  |
| 4 Year                       |                 | 1         |           |             |                   | 1     |  |  |
| 3 Year                       | 1               | 1         |           |             |                   | 2     |  |  |
| Total                        | 12              | 4         | 0         | 0           | 0                 | 16    |  |  |

<sup>&</sup>lt;sup>1</sup> Regular Annuity

<sup>&</sup>lt;sup>2</sup> Neither service credit nor final compensation are factors in determining a benefit from the Cash Balance Benefit Program and therefore are not included in this table.

<sup>&</sup>lt;sup>3</sup> Revised 2007.

A - Single Life Without Cash Refund (no longer available for selection as of January 1, 2007).

B - Participant Only (formerly known as Single Life With Cash Refund).

C - 100% Beneficiary Annuity (formerly known as 100% Joint and Survivor Annuity).

D - 75% Beneficiary Annuity (new annuity available for selection effective January 1, 2007).

E - 50% Beneficiary Annuity (formerly known as 50% Joint and Survivor Annuity).

Table 6 | Principal Participating Employers for the Cash Balance Benefit Program, Current Year and Nine Years Ago

|                               |                   | 2007 |                            |                   | 1998 |                            |
|-------------------------------|-------------------|------|----------------------------|-------------------|------|----------------------------|
| PARTICIPATING<br>GOVERNMENT   | COVERED EMPLOYEES | RANK | PERCENTAGE OF TOTAL SYSTEM | COVERED EMPLOYEES | RANK | PERCENTAGE OF TOTAL SYSTEM |
| Los Angeles CCD               | 2,962             | 1    | 11.04%                     |                   |      |                            |
| Contra Costa CCD              | 1,965             | 2    | 7.33                       | 612               | 1    | 16.55%                     |
| West Contra Costa Unified     | 1,846             | 3    | 6.88                       | 342               | 5    | 9.25                       |
| Peralta CCD                   | 1,781             | 4    | 6.64                       | 459               | 4    | 12.42                      |
| City College of San Francisco | 1,754             | 5    | 6.54                       | 499               | 2    | 13.50                      |
| Chabot-Las Positas CCD        | 1,616             | 6    | 6.02                       | 481               | 3    | 13.01                      |
| San Jose Evergreen CCD        | 1,377             | 7    | 5.13                       |                   |      |                            |
| Sonoma Jr.College District    | 1,198             | 8    | 4.47                       | 282               | 6    | 7.63                       |
| Glendale CCD                  | 1,096             | 9    | 4.09                       |                   |      |                            |
| Ventura CCD                   | 1,037             | 10   | 3.87                       |                   |      |                            |
| Ohlone CCD                    |                   |      |                            | 282               | 7    | 7.63                       |
| El Camino CCD                 |                   |      |                            | 265               | 8    | 7.17                       |
| Grossmont Union High          |                   |      |                            | 191               | 9    | 5.17                       |
| Solano CCD                    |                   |      |                            | 164               | 10   | 4.44                       |
| All Other                     | 10,192            |      | 37.99                      | 120               |      | 3.23                       |
| Total (30 Districts)          | 26,824            |      | 100.00%                    | 3,697             |      | 100.00%                    |

# PROGRAMS ADMINISTERED OR OVERSEEN BY THE RETIREMENT SYSTEM

**Voluntary Investment Program** 

Note: Non-accounting data provided by CitiStreet LLC, the third-party administrator for the Voluntary Investment Program.

 Table 1
 Change in Net Assets (dollars in thousands)

| FISCAL YEAR<br>ENDING JUNE 30             | 2007      | 2006     | 2005     | 2004     | 2003     | 2002     | 2001     | 2000     | 1999     | 1998    |
|-------------------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|
| Additions                                 |           |          |          |          |          |          |          |          |          |         |
| Participant Contributions                 | \$23,338  | \$21,509 | \$20,379 | \$19,535 | \$17,481 | \$14,472 | \$14,732 | \$13,792 | \$8,675  | \$5,079 |
| Interest, Dividends and Investment Income | 22,793    | 10,245   | 6,143    | 9,754    | 1,054    | (6,158)  | (5,099)  | 3,116    | 4,121    | 2,911   |
| Other Income                              | 16        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0       |
| Total Additions                           | \$46,147  | \$31,754 | \$26,522 | \$29,289 | \$18,535 | \$8,314  | \$9,633  | \$16,908 | \$12,796 | \$7,990 |
| Deductions                                |           |          |          |          |          |          |          |          |          |         |
| Distributions and<br>Withdrawals          | \$8,451 1 | -        | -        | -        | -        | -        | -        | -        | _        | _       |
| Benefit Payments<br>to Participant        | 0         | \$2,286  | \$2,645  | \$1,617  | \$1,965  | \$453    | \$250    | \$250    | \$237    | \$165   |
| Refunds of Participant<br>Contributions   | 0         | 7,481    | 6,131    | 6,440    | 3,478    | 2,553    | 2,288    | 2,201    | 1,610    | 1,662   |
| Administration Expenses                   | 782       | 935      | 917      | 807      | 504      | 372      | 344      | 275      | 205      | 155     |
| Total Deductions                          | \$9,233   | \$10,702 | \$9,693  | \$8,864  | \$5,947  | \$3,378  | \$2,882  | \$2,726  | \$2,052  | \$1,982 |
| Change in Net Assets                      | \$36,914  | \$21,052 | \$16,829 | \$20,425 | \$12,588 | \$4,936  | \$6,751  | \$14,182 | \$10,744 | \$6,008 |

<sup>&</sup>lt;sup>1</sup> Distributions and Withdrawals reflects the Benefit Payments to Participant and Refunds of Participant Contributions combined for fiscal year 2006–07.

### **VOLUNTARY INVESTMENT PROGRAM**

Table 2 | Largest Participating Employers for CalSTRS Voluntary Investment Program, Current Year and Nine Years Ago

|                           |                   | 2007 |                            |                   | 1998 |                            |
|---------------------------|-------------------|------|----------------------------|-------------------|------|----------------------------|
| PARTRICIPATING GOVERNMENT | COVERED EMPLOYEES | RANK | PERCENTAGE OF TOTAL SYSTEM | COVERED EMPLOYEES | RANK | PERCENTAGE OF TOTAL SYSTEM |
| Los Angeles Unified (61)  | 772               | 1    | 19.94%                     | 178               | 1    | 11.9%                      |
| San Diego City Unified    | 88                | 2    | 2.3                        | 44                | 4    | 2.9                        |
| Long Beach Unified        | 69                | 3    | 1.8                        | 4                 | 12   | 0.27                       |
| San Juan Unified          | 65                | 4    | 1.7                        | 28                | 6    | 1.9                        |
| Mt. Diablo Unified        | 58                | 5    | 1.5                        | 26                | 7    | 1.8                        |
| San Francisco Unified     | 57                | 6    | 1.5                        | 48                | 2    | 3.2                        |
| Sacramento City Unified   | 56                | 7    | 1.4                        | 45                | 3    | 3                          |
| Los Angeles County (19)   | 42                | 8    | 1.1                        | 21                | 9    | 1.4                        |
| Capistrano                | 39                | 9    | 1                          | 4                 | 12   | 0.27                       |
| Elk Grove Unified         | 39                | 9    | 1                          |                   |      |                            |
| Fresno Unified            | 39                | 9    | 1                          | 3                 | 13   | 0.2                        |
| City College of SF        | 33                | 10   | 0.8                        | 1                 | 14   | 0.06                       |
| Las Lomitas Elementary    |                   |      |                            | 30                | 5    | 2                          |
| Oceanside Unified         |                   |      |                            | 25                | 8    | 1.7                        |
| Westminster Elementary    |                   |      |                            | 14                | 10   | 0.9                        |
| Burbank Unified           |                   |      |                            | 12                | 11   | 0.8                        |
| All Other                 | 2,515             |      | 64.96                      | 1,015             |      | 67.7                       |
| Total (615 Districts)     | 3,872             |      | 100%                       | 1,498             |      | 100%                       |

Table 1 | Changes in Net Assets (dollars in thousands)

| FISCAL YEAR ENDING JUNE 30                | 2007     | 2006     | 2005     | 2004     | 2003     | 2002     | 2001    |
|-------------------------------------------|----------|----------|----------|----------|----------|----------|---------|
| Additions                                 |          |          |          |          |          |          |         |
| Employer Contributions                    | \$32,257 | \$29,602 | \$28,483 | \$26,496 | \$22,221 | \$19,060 | \$4,800 |
| Interest, Dividends and Investment Income | 240      | 143      | 87       | 41       | 53       | 118      | 26      |
| Other Income                              |          |          | (158)    | 8        |          | 31       | 0       |
| Total Additions                           | \$32,497 | \$29,745 | \$28,412 | \$26,545 | \$22,274 | \$19,209 | \$4,826 |
| Deductions                                |          |          |          |          |          |          |         |
| Benefit Payments to Participants          | \$31,270 | \$29,313 | \$27,416 | \$25,648 | \$22,026 | \$21,536 | \$0     |
| Administration Expenses                   | 190      | 359      | 429      | 373      | 355      | 377      | 453     |
| Total Deductions                          | \$31,460 | \$29,672 | \$27,845 | \$26,021 | \$22,381 | \$21,913 | \$453   |
| Change in Net Assets                      | \$1,037  | \$73     | \$567    | \$524    | -\$107   | -\$2,704 | \$4,373 |

Medicare Premium Payment Program began in 2001.

Table 2 | Benefit and Refund Deductions from Net Assets by Type (dollars in thousands)

| FISCAL YEAR ENDING JUNE 30                | 2007     | 2006     | 2005     | 2004     | 2003     | 2002     | 2001 |
|-------------------------------------------|----------|----------|----------|----------|----------|----------|------|
| Type of Benefit<br>Age & Service Benefits |          |          |          |          |          |          |      |
| Retired Members                           | \$31,270 | \$29,313 | \$27,416 | \$25,648 | \$22,026 | \$21,536 | \$0  |
| Total Benefits                            | \$31,270 | \$29,313 | \$27,416 | \$25,648 | \$22,026 | \$21,536 | \$0  |

Medicare Premium Payment Program began in 2001.

Table 3 | Retired Members Enrolled in Medicare Premium Payment Program During Fiscal Year 2006–07, Classified by Age at Retirement

| AGE      | TOTAL | AG      | E TOTAI | L |
|----------|-------|---------|---------|---|
| Under 55 | 3     | - 66    | 5 5     |   |
| 55       | 25    | 67      | 7 7     |   |
| 56       | 30    | 68      | 3 2     |   |
| 57       | 16    | 69      | 9 1     |   |
| 58       | 17    | 70      | 2       |   |
| 59       | 36    | 71      | 1 2     |   |
| 60       | 66    | 72      | 2 0     |   |
| 61       | 53    | 73      | 3 0     |   |
| 62       | 61    | 74      | 4 0     |   |
| 63       | 30    | 75      | 5 0     |   |
| 64       | 20    | Over    | 75 0    |   |
| 65       | 15    | Age Uni | known 0 |   |
|          |       | Tot     | al 391  |   |

Table 4 | Characteristics of All Retired
Members Enrolled in Medicare
Premium Payment Program

| FISCAL YEAR<br>ENDING JUNE 30 <sup>1</sup> | AVERAGE AGE AT RETIREMENT | AVERAGE MONTHLY MEDICARE PREMIUM |
|--------------------------------------------|---------------------------|----------------------------------|
| 2002                                       | 60.4                      | \$301                            |
| 2003                                       | 60.4                      | 301                              |
| 2004                                       | 60.4                      | 339                              |
| 2005                                       | 60.4                      | 354                              |
| 2006                                       | 60.4                      | 368                              |
| 2007                                       | 60.4                      | 394                              |

 $<sup>^{\</sup>rm 1}\,\mbox{The Medicare Premium Payment Program was established July 1, 2001.}$ 



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