

# AUDIT REPORT

Department of the Treasury  
Tennessee Consolidated Retirement System

For the Year Ended  
June 30, 2011



STATE OF TENNESSEE  
COMPTROLLER OF THE TREASURY

Department of Audit  
Division of State Audit



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**STATE OF TENNESSEE  
COMPTROLLER OF THE TREASURY  
DEPARTMENT OF AUDIT  
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January 31, 2012

Members of the General Assembly  
and  
Members of the Board of Trustees  
Tennessee Consolidated Retirement System  
and  
The Honorable David H. Lillard, Jr., Treasurer  
State Capitol  
Nashville, Tennessee 37243

Ladies and Gentlemen:

Transmitted herewith is the financial and compliance audit of the Tennessee Consolidated Retirement System for the year ended June 30, 2011. You will note from the independent auditor's report that an unqualified opinion was given on the fairness of the presentation of the financial statements.

Consideration of internal control over financial reporting and tests of compliance resulted in no audit findings.

Sincerely,

Arthur A. Hayes, Jr., CPA  
Director

AAH/af  
12/014

State of Tennessee

# **A u d i t   H i g h l i g h t s**

Comptroller of the Treasury

Division of State Audit

Financial and Compliance Audit  
**Tennessee Consolidated Retirement System**  
For the Year Ended June 30, 2011

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## **AUDIT OBJECTIVES**

The objectives of the audit were to consider the Tennessee Consolidated Retirement System's internal control over financial reporting; to determine compliance with certain provisions of laws, regulations, and contracts; to determine the fairness of the presentation of the financial statements; and to recommend appropriate actions to correct any deficiencies.

## **AUDIT FINDINGS**

The audit report contains no findings.

## **OPINION ON THE FINANCIAL STATEMENTS**

The opinion on the financial statements is unqualified.

**Audit Report**  
**Tennessee Consolidated Retirement System**  
**For the Year Ended June 30, 2011**

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**TABLE OF CONTENTS**

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	<u>Exhibit</u>	<u>Page</u>
<b>INTRODUCTION</b>		1
Post-Audit Authority		1
Background		1
Organization		2
<b>AUDIT SCOPE</b>		2
<b>OBJECTIVES OF THE AUDIT</b>		4
<b>PRIOR AUDIT FINDINGS</b>		4
<b>OBSERVATIONS AND COMMENTS</b>		4
Management's Responsibility for Risk Assessment		4
Fraud Considerations		5
<b>RESULTS OF THE AUDIT</b>		6
Audit Conclusions		6
Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance With <i>Government Auditing Standards</i>		7
<b>FINANCIAL SECTION</b>		
Independent Auditor's Report		9
Management's Discussion and Analysis		11
Financial Statements		
Statements of Plan Net Assets	A	16
Statements of Changes in Plan Net Assets	B	18
Notes to the Financial Statements		20

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**TABLE OF CONTENTS (CONT.)**

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	<u>Exhibit</u>	<u>Page</u>
Required Supplementary Information		
Schedules of Funding Progress		33
Schedules of Employer Contributions		33

# Tennessee Consolidated Retirement System For the Year Ended June 30, 2011

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## INTRODUCTION

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### POST-AUDIT AUTHORITY

This is a report on the financial and compliance audit of the Tennessee Consolidated Retirement System. The audit was conducted pursuant to Section 4-3-304, *Tennessee Code Annotated*, which authorizes the Department of Audit to “perform currently a post-audit of all accounts and other financial records of the state government, and of any department, institution, office, or agency thereof in accordance with generally accepted auditing standards and in accordance with such procedures as may be established by the comptroller.”

Section 8-4-109, *Tennessee Code Annotated*, authorizes the Comptroller of the Treasury to audit any books and records of any governmental entity that handles public funds when the Comptroller considers an audit to be necessary or appropriate.

### BACKGROUND

The Tennessee Consolidated Retirement System (TCRS) was established in 1972 by an act of the Tennessee General Assembly. Seven existing retirement systems were consolidated to provide retirement, disability, and death benefits to state employees, public school teachers, higher education employees, and employees of participating local governments. State laws govern the retirement plan, and amendments to the plan can only be made by legislation enacted by the General Assembly of the State of Tennessee.

A 20-member board of trustees has the responsibility to manage and oversee the operation of the consolidated retirement system. The board consists of nine *ex-officio* members from the executive, legislative, and judicial branches of state government; nine representatives of active TCRS memberships; and two representatives of the retirees. TCRS is administered by the Department of the Treasury under the legislative branch of state government. By state law, the State Treasurer serves as chairman of the board of trustees and as custodian of the funds of the system.

Membership in the retirement system is a condition of employment for full-time state employees, K-12 teachers, higher education general employees, and employees of participating local governments. Membership is optional for part-time state employees and part-time employees of political subdivisions which have authorized such coverage. Interim teachers and part-time teachers have optional memberships. Faculty and certain other employees of institutions of higher education may elect participation in either TCRS or an optional retirement

program. TCRS membership has grown steadily since 1972, when there were approximately 93,000 members. As of June 30, 2011, there were 219,914 active members and 117,185 retirees.

## **ORGANIZATION**

The Tennessee Consolidated Retirement System is organized into three major service areas: Counseling Services, Member Services, and Financial Services.

Counseling Services is responsible for preretirement counseling of members on their potential benefit payments under different options. The section processes claims for disability retirement and provides field support, including new employer coverage.

Member Services is responsible for prior-service and benefit calculations. Prior service specialists assist in establishing prior-service credit for eligible members or former members who have requested such credit. Benefit calculation specialists compute new retiree benefits based on the option chosen.

Financial Services processes refunds for terminated members, administers the retired payroll, distributes the pension payments, and coordinates actuarial valuations. The section also processes membership forms received from all state agencies, local boards of education, and participating political subdivisions. In addition, the section is responsible for researching, controlling, and correcting member records on the Treasury Retirement Accounting and Control System.

An organization chart for the Tennessee Consolidated Retirement System is on the following page.

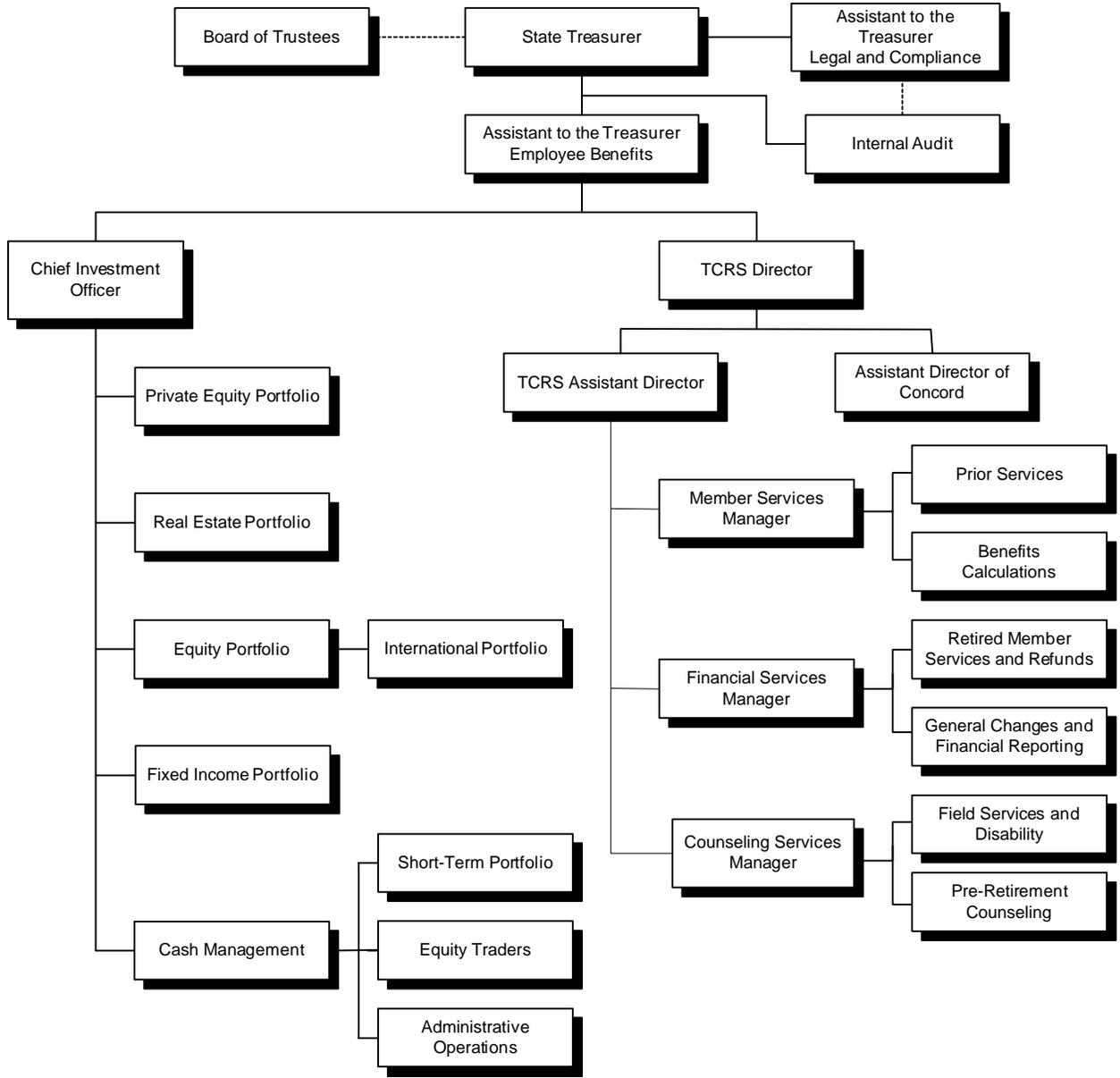
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## **AUDIT SCOPE**

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The audit was limited to the period July 1, 2010, through June 30, 2011, and was conducted in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in generally accepted government auditing standards. Financial statements are presented for the year ended June 30, 2011, and for comparative purposes, the year ended June 30, 2010. The Tennessee Consolidated Retirement System forms an integral part of state government and as such has been included as pension trust funds in the *Tennessee Comprehensive Annual Financial Report*.

# Tennessee Consolidated Retirement System Organization Chart



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## **OBJECTIVES OF THE AUDIT**

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The objectives of the audit were

1. to consider the Tennessee Consolidated Retirement System's internal control over financial reporting as a basis for designing auditing procedures for the purpose of expressing an opinion on the financial statements;
2. to determine compliance with certain provisions of laws, regulations, and contracts;
3. to determine the fairness of the presentation of the financial statements; and
4. to recommend appropriate actions to correct any deficiencies.

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## **PRIOR AUDIT FINDINGS**

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There were no findings in the prior audit report.

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## **OBSERVATIONS AND COMMENTS**

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### **MANAGEMENT'S RESPONSIBILITY FOR RISK ASSESSMENT**

Auditors and management are required to assess the risk of fraud in the operations of the entity. The risk assessment is based on a critical review of operations considering what frauds could be perpetrated in the absence of adequate controls. The auditors' risk assessment is limited to the period during which the audit is conducted and is limited to the transactions that the auditors are able to test during that period. The risk assessment by management is the primary method by which the entity is protected from fraud, waste, and abuse. Since new programs may be established at any time by management or older programs may be discontinued, that assessment is ongoing as part of the daily operations of the entity.

Risks of fraud, waste, and abuse are mitigated by effective internal controls. It is management's responsibility to design, implement, and monitor effective controls in the entity. Although internal and external auditors may include testing of controls as part of their audit procedures, these procedures are not a substitute for the ongoing monitoring required of management. After all, the auditor testing is limited and is usually targeted to test the effectiveness of particular controls. Even if controls appear to be operating effectively during

the time of the auditor testing, they may be rendered ineffective the next day by management override or by other circumstances that, if left up to the auditor to detect, will not be noted until the next audit engagement and then only if the auditor tests the same transactions and controls. Furthermore, since staff may be seeking to avoid auditor criticisms, they may comply with the controls during the period that the auditors are on site and revert to ignoring or disregarding the control after the auditors have left the field.

The risk assessments and the actions of management in designing, implementing, and monitoring the controls should be adequately documented to provide an audit trail both for auditors and for management, in the event that there is a change in management or staff, and to maintain a record of areas that are particularly problematic. The assessment and the controls should be reviewed and approved by the head of the entity.

## **FRAUD CONSIDERATIONS**

Statement on Auditing Standards No. 99, *Consideration of Fraud in a Financial Statement Audit*, promulgated by the American Institute of Certified Public Accountants requires auditors to specifically assess the risk of material misstatement of an audited entity's financial statements due to fraud. The standard also restates the obvious premise that management, not the auditors, is primarily responsible for preventing and detecting fraud in its own entity. Management's responsibility is fulfilled in part when it takes appropriate steps to assess the risk of fraud within the entity and to implement adequate internal controls to address the results of those risk assessments.

During our audit, we discussed these responsibilities with management and how management might approach meeting them. We also increased the breadth and depth of our inquiries of management and others in the entity as we deemed appropriate. We obtained formal assurances from top management that management had reviewed the entity's policies and procedures to ensure that they are properly designed to prevent and detect fraud and that management had made changes to the policies and procedures where appropriate. Top management further assured us that all staff had been advised to promptly alert management of all allegations of fraud, suspected fraud, or detected fraud and to be totally candid in all communications with the auditors. All levels of management assured us there were no known instances or allegations of fraud that were not disclosed to us.

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## RESULTS OF THE AUDIT

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### AUDIT CONCLUSIONS

#### Internal Control

As part of the audit of the Tennessee Consolidated Retirement System's financial statements for the year ended June 30, 2011, we considered internal control over financial reporting as a basis for designing auditing procedures for the purpose of expressing an opinion on the financial statements, as required by auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in generally accepted government auditing standards. Consideration of internal control over financial reporting disclosed no material weaknesses.

#### Compliance and Other Matters

The results of our audit tests disclosed no instances of noncompliance or other matters that are required to be reported under generally accepted government auditing standards.

#### Fairness of Financial Statement Presentation

The Division of State Audit has rendered an unqualified opinion on the Tennessee Consolidated Retirement System's financial statements.



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**Report on Internal Control Over Financial Reporting and on  
Compliance and Other Matters Based on an Audit of  
Financial Statements Performed in Accordance With  
*Government Auditing Standards***

December 19, 2011

Members of the General Assembly  
and  
Members of the Board of Trustees  
Tennessee Consolidated Retirement System  
and  
The Honorable David H. Lillard, Jr., Treasurer  
State Capitol  
Nashville, Tennessee 37243

Ladies and Gentlemen:

We have audited the financial statements of the Tennessee Consolidated Retirement System as of and for the year ended June 30, 2011, and have issued our report thereon dated December 19, 2011. 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 generally accepted government auditing standards.

Internal Control Over Financial Reporting

Management of the Tennessee Consolidated Retirement System is responsible for establishing and maintaining effective internal control over financial reporting. In planning and performing our audit, we considered the Tennessee Consolidated Retirement System's internal control over financial reporting as a basis for designing our auditing procedures for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Tennessee Consolidated Retirement System's internal control

over financial reporting. Accordingly, we do not express an opinion on the effectiveness of the Tennessee Consolidated Retirement System's internal control over financial reporting.

*A deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the financial statements will not be prevented, or detected and corrected on a timely basis.

Our consideration of internal control over financial reporting was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over financial reporting that might be deficiencies, significant deficiencies, or material weaknesses. We did not identify any deficiencies in internal control over financial reporting that we consider to be material weaknesses, as defined above.

#### Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Tennessee Consolidated Retirement System's financial statements are free of material misstatement, we performed tests of the system's compliance with certain provisions of laws, regulations, and contracts, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under generally accepted government auditing standards.

This report is intended solely for the information and use of the General Assembly of the State of Tennessee, the board of trustees, management, and others within the entity and is not intended to be and should not be used by anyone other than these specified parties. However, this report is a matter of public record.

Sincerely,

A handwritten signature in black ink that reads "Arthur A. Hayes, Jr." with a stylized, cursive script.

Arthur A. Hayes, Jr., CPA  
Director

AAH/af



STATE OF TENNESSEE  
**COMPTROLLER OF THE TREASURY**  
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**Independent Auditor's Report**

December 19, 2011

Members of the General Assembly  
and  
Members of the Board of Trustees  
Tennessee Consolidated Retirement System  
and  
The Honorable David H. Lillard, Jr., Treasurer  
State Capitol  
Nashville, Tennessee 37243

Ladies and Gentlemen:

We have audited the accompanying statements of plan net assets of the Tennessee Consolidated Retirement System as of June 30, 2011, and June 30, 2010, and the related statements of changes in plan net assets for the years then ended. These financial statements are the responsibility of the Tennessee Consolidated Retirement System's management. Our responsibility is to express an opinion on these financial statements, based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in generally accepted government auditing standards. 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 examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion. Tennessee statutes, in addition to audit responsibilities, entrust certain other responsibilities to the Comptroller of the Treasury. Those responsibilities include serving as a member of the board of trustees of the Tennessee Consolidated Retirement System. We do not

believe that the Comptroller's service in this capacity affected our ability to conduct an independent audit of the Tennessee Consolidated Retirement System.

As discussed in Note A.1., the financial statements present only the Tennessee Consolidated Retirement System, pension trust funds of the State of Tennessee, and do not purport to, and do not, present fairly the financial position of the State of Tennessee, as of June 30, 2011, and June 30, 2010, and the changes in its financial position for the years then ended in conformity with accounting principles generally accepted in the United States of America.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Tennessee Consolidated Retirement System as of June 30, 2011, and June 30, 2010, and the changes in its plan net assets for the years then ended in conformity with accounting principles generally accepted in the United States of America.

The management's discussion and analysis on pages 11 through 15 and the schedules of funding progress and employer contributions on page 33 are not required parts 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.

In accordance with generally accepted government auditing standards, we have also issued our report dated December 19, 2011, on our consideration of the Tennessee Consolidated Retirement 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 generally accepted government auditing standards and should be considered in assessing the results of our audit.

Sincerely,

A handwritten signature in black ink, appearing to read "Arthur A. Hayes, Jr.", written in a cursive style.

Arthur A. Hayes, Jr., CPA  
Director

AAH/af

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**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM  
MANAGEMENT'S DISCUSSION AND ANALYSIS  
FOR THE YEARS ENDED JUNE 30, 2011 & JUNE 30, 2010**

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The Management of the Tennessee Consolidated Retirement System (TCRS) provides this discussion and analysis as an overview of the TCRS' financial activities for the fiscal years ended June 30, 2011 and June 30, 2010. This section should be read in conjunction with the Independent Auditor's Report, the audited financial statements, and the accompanying notes.

### **FINANCIAL HIGHLIGHTS**

- ◆ The plan net assets (total assets minus total liabilities) of the TCRS at June 30, 2011 were \$33.7 billion, increasing nearly \$5.1 billion (17.8 percent) from the plan net assets at June 30, 2010. The net assets are held in trust to meet future benefit obligations.
- ◆ The TCRS relies upon contributions from employees and employers, along with investment income, to meet the funding requirements of an actuarially determined accrued liability. As of July 1, 2009, the date of the latest actuarial valuation, the TCRS' funded ratio was 90.6 percent for the SETHEPP group and 86.3 percent for the PSPP group.
- ◆ Contribution revenue for fiscal year 2011 totaled \$1,255,926,943 an increase of 15 percent compared to fiscal year 2010.
- ◆ Net investment income for fiscal year 2011 was \$5,528,753,502. During fiscal year 2011, the TCRS received an investment return on its portfolio of 19.59 percent, compared to 10.24 percent for fiscal year 2010.
- ◆ Total benefits and refunds paid for fiscal year 2011 were \$1,688,410,469 – an increase of 7.4 percent over fiscal year 2010 total benefits and refunds paid of \$1,571,610,009.
- ◆ Total administrative expenses for fiscal year 2011 were \$7,156,822 – a 5.1% decrease from fiscal year 2010 administrative expenses of \$7,542,822.

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

The TCRS financial statements consist of the *Statement of Plan Net Assets* (on pages 16 through 17), the *Statement of Changes in Plan Net Assets* (on pages 18 through 19), and the *Notes to the Financial Statements* (on pages 20 through 32). In addition, *Required Supplementary Information* is presented, which includes this *Management's Discussion and Analysis*, as well as the schedules on page 33.

The *Statement of Plan Net Assets* and the *Statement of Changes in Plan Net Assets* report information about the plan net assets (total assets in excess of total liabilities) as of the end of the fiscal year and the changes in those plan net assets during the fiscal year. These statements include all assets and liabilities using the accrual basis of accounting. Under the accrual basis of accounting, the current year's revenues and expenses are included in the financial activity, regardless of when cash is received or paid. The difference between the total assets and total liabilities on the *Statement of Plan Net Assets*, or net assets held in trust for pension benefits, provides a measurement of the financial position of the TCRS as of the end of the fiscal year. The *Statement of Changes in Plan Net Assets* provides information on the activities that caused the financial position to change during the fiscal year. Over time, increases or decreases in the plan net assets of the TCRS are one indicator of whether the system's financial health is improving or deteriorating.

In addition to the two basic financial statements, the reader should also review the *Schedules of Funding Progress* and the *Schedules of Employer Contributions* to gain an understanding of the funded status of the TCRS over time. This information provides an indication of the TCRS' ability to meet both current and future benefit payment obligations. The *Notes to the Financial Statements* are also essential to the reader's understanding of the financial statements and provide additional information regarding the TCRS, such as descriptions of the plans administered by the TCRS, including contribution and benefit provisions, and information about the accounting policies and investment activities.

*(continued)*

**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM  
MANAGEMENT'S DISCUSSION AND ANALYSIS  
FOR THE YEARS ENDED JUNE 30, 2011 & JUNE 30, 2010 (CONTINUED)**

**ANALYSIS OF ASSETS, LIABILITIES AND PLAN NET ASSETS**

At June 30, 2011, the TCRS had plan net assets (total assets in excess of total liabilities) of \$33.7 billion, an increase of nearly \$5.1 billion (17.8 percent) from \$28.6 billion at June 30, 2010, following the fiscal year 2010 increase of over \$2.2 billion (8.4 percent) from the \$26.4 billion of plan net assets as of June 30, 2009. The assets of the TCRS consist primarily of investments. The increase in plan assets is primarily the result of strong investment returns in equity and fixed income markets. Condensed financial information comparing the TCRS' plan net assets for the past three fiscal years follows.

**PLAN NET ASSETS**

	<b>June 30, 2011</b>	<b>June 30, 2010</b>	<b>FY11 - FY10 Percentage Change</b>	<b>June 30, 2009</b>	<b>FY10 - FY09 Percentage Change</b>
<b>ASSETS</b>					
Cash and cash equivalents	\$ 414,134,562	\$ 438,269,286	(5.5) %	\$1,267,296,450	(65.4) %
Member and employer receivables	99,604,471	89,310,527	11.5 %	74,112,021	20.5 %
Investment receivables	1,431,331,905	2,000,061,173	(28.4) %	1,373,061,675	45.7 %
Short-term securities	0	0	0.0 %	391,283,896	(100.0) %
Long-term investments	33,220,879,536	27,911,282,071	19.0 %	24,664,493,110	13.2 %
Capital assets	1,896,671	0	- %	0	0.0 %
<b>TOTAL ASSETS</b>	<b>35,167,847,145</b>	<b>30,438,923,057</b>	<b>15.5 %</b>	<b>27,770,247,152</b>	<b>9.6 %</b>
<b>LIABILITIES</b>					
Death benefits, refunds and other payables	8,544,407	8,205,512	4.1 %	7,364,733	11.4 %
Investment payables	1,495,994,494	1,856,522,455	(19.4) %	1,393,656,704	33.2 %
<b>TOTAL LIABILITIES</b>	<b>1,504,538,901</b>	<b>1,864,727,967</b>	<b>(19.3) %</b>	<b>1,401,021,437</b>	<b>33.1 %</b>
<b>NET ASSETS HELD IN TRUST</b>					
<b>FOR PENSION BENEFITS</b>	<b>\$33,663,308,244</b>	<b>\$28,574,195,090</b>	<b>17.8 %</b>	<b>\$26,369,225,715</b>	<b>8.4 %</b>

**ANALYSIS OF REVENUES AND EXPENSES**

Contributions to TCRS had a larger than normal increase of \$164.1 million (15%) over contributions for fiscal year 2010 due to the change in employer contribution rates effective July 1, 2010. With the continued increase of investment income of \$2.8 billion (105.4%) for fiscal year 2011 compared to investment income for fiscal year 2010, the overall increase in revenues for 2011 was 79.3% compared to revenues for fiscal year 2010. Employer contribution rates for the TCRS did not change during fiscal year 2010; therefore, the slight change of .1% in contributions from fiscal year 2009 to fiscal year 2010 was due to changes in salary.

Investment expenses for fiscal year 2011 increased \$3.4 million (11.8 %) due to the continued market appreciation in the externally managed assets in 2011. Improved market conditions in fiscal year 2011 resulted in an overall gain to the TCRS investment portfolio of 19.59% and net investment income of \$5.5 billion. Net investment income for fiscal year 2010 was \$2.7 billion due to the start of the improved market conditions in fiscal year 2010.

Total benefits and refunds paid during the year ended June 30, 2011 were \$1,688,410,469, an increase of 7.4 percent over fiscal year 2010 total benefits and refunds paid. Total benefits and refunds paid during the year ended June 30, 2010 were \$1,571,610,009, an increase of 5.5 percent over fiscal year 2009 total benefits and refunds paid. The increase in benefit expenses for fiscal year 2011 is attributed to 2.7 percent in cost of living adjustments awarded to retirees on July 1, 2010, as well as more retirees being added to payroll than removed during this fiscal year. The increase in benefit expenses in

(continued)

**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM  
MANAGEMENT'S DISCUSSION AND ANALYSIS  
FOR THE YEARS ENDED JUNE 30, 2011 & JUNE 30, 2010 (CONTINUED)**

fiscal year 2010 can be attributed to more retirees being added to payroll than removed during this fiscal year. Total refunds paid decreased \$883,258 (2.4%) in fiscal year 2011 from fiscal year 2010. Total refunds paid had increased \$4.4 million (13.7%) in fiscal year 2010 over fiscal year 2009 and were attributed to the weak economy where more terminated members are choosing to withdraw from the system instead of leaving the funds invested.

Administrative expenses for the year ended June 30, 2011 were \$7,156,822, a decrease of 5.1 percent from fiscal year 2010 administrative expenses. The decrease was primarily due to the additional expense of the biennial actuarial study performed in fiscal year 2010 and not being performed in fiscal year 2011. Administrative expenses for the year ended June 30, 2010 were \$7,542,822, an increase of 4.7 percent over fiscal year 2009 administrative expenses.

Condensed financial information comparing the TCRS' revenues and expenses for the past three fiscal years follows.

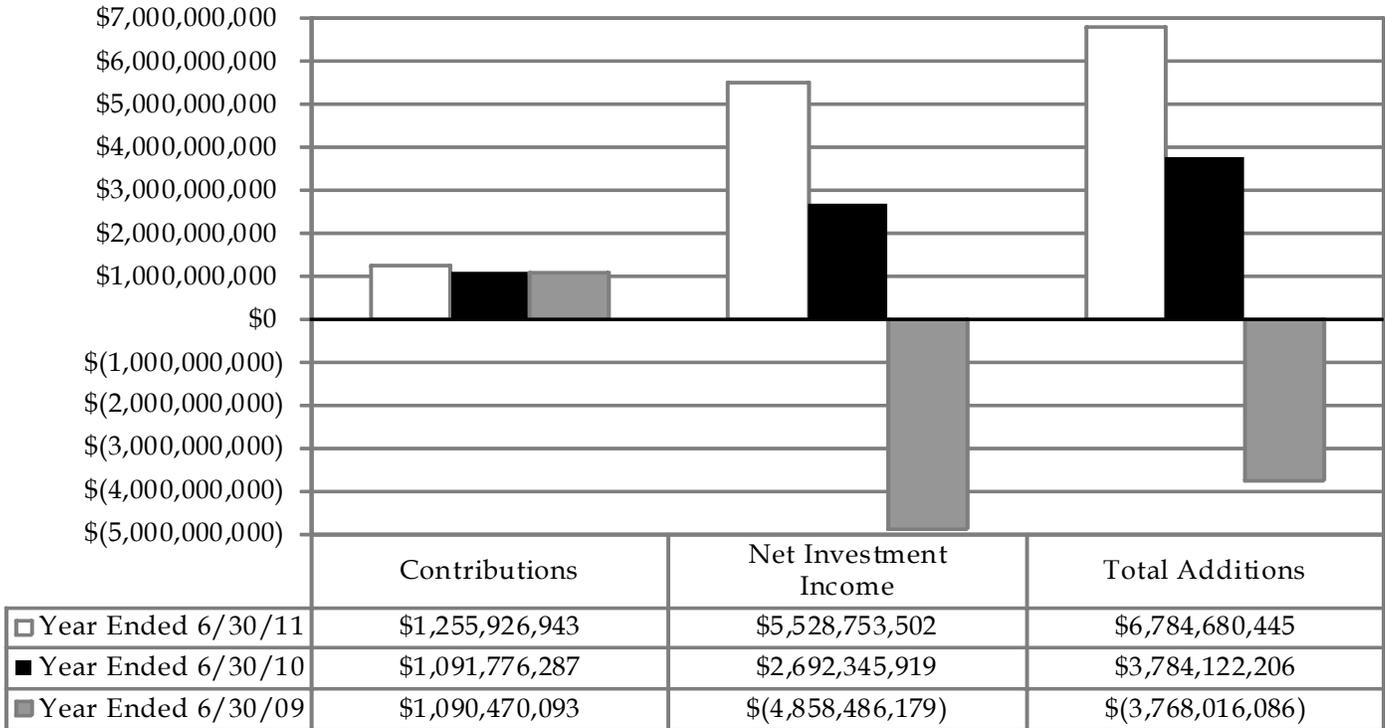
**CHANGES IN PLAN NET ASSETS**

	For the Year Ended June 30, 2011	For the Year Ended June 30, 2010	FY11 - FY10 Percentage Change	For the Year Ended June 30, 2009	FY10 - FY09 Percentage Change
<b>ADDITIONS</b>					
Contributions	\$ 1,255,926,943	\$ 1,091,776,287	15.0 %	\$ 1,090,470,093	0.1 %
Investment income					
Net appreciation (depreciation) in fair value of investments	4,597,653,001	1,802,314,559	155.1 %	(5,855,240,629)	130.8 %
Interest, dividends and other investment income	963,313,744	918,842,338	4.8 %	1,018,043,263	(9.7) %
Less: Investment expense	(32,213,243)	(28,810,978)	11.8 %	(21,288,813)	35.3 %
Net investment income	5,528,753,502	2,692,345,919	105.4 %	(4,858,486,179)	155.4 %
<b>TOTAL ADDITIONS</b>	<b>6,784,680,445</b>	<b>3,784,122,206</b>	<b>79.3 %</b>	<b>(3,768,016,086)</b>	<b>200.4 %</b>
<b>DEDUCTIONS</b>					
Annuity benefits					
Retirement benefits	1,248,538,286	1,164,713,725	7.2 %	1,083,753,159	7.5 %
Survivor benefits	76,298,394	71,380,041	6.9 %	66,732,833	7.0 %
Disability benefits	32,140,006	30,500,247	5.4 %	29,607,231	3.0 %
Cost of living	290,396,251	261,479,337	11.1 %	271,845,658	(3.8) %
Death benefits	5,498,139	7,114,008	(22.7) %	5,724,443	24.3 %
Refunds	35,539,393	36,422,651	(2.4) %	32,021,785	13.7 %
Administrative expenses	7,156,822	7,542,822	(5.1) %	7,202,572	4.7 %
<b>TOTAL DEDUCTIONS</b>	<b>1,695,567,291</b>	<b>1,579,152,831</b>	<b>7.4 %</b>	<b>1,496,887,681</b>	<b>5.5 %</b>
<b>NET INCREASE (DECREASE)</b>	<b>5,089,113,154</b>	<b>2,204,969,375</b>	<b>130.8 %</b>	<b>(5,264,903,767)</b>	<b>141.9 %</b>
<b>NET ASSETS HELD IN TRUST FOR PENSION BENEFITS</b>					
BEGINNING OF YEAR	28,574,195,090	26,369,225,715	8.4 %	31,634,129,482	(16.6) %
END OF YEAR	\$33,663,308,244	\$28,574,195,090	17.8 %	\$26,369,225,715	8.4 %

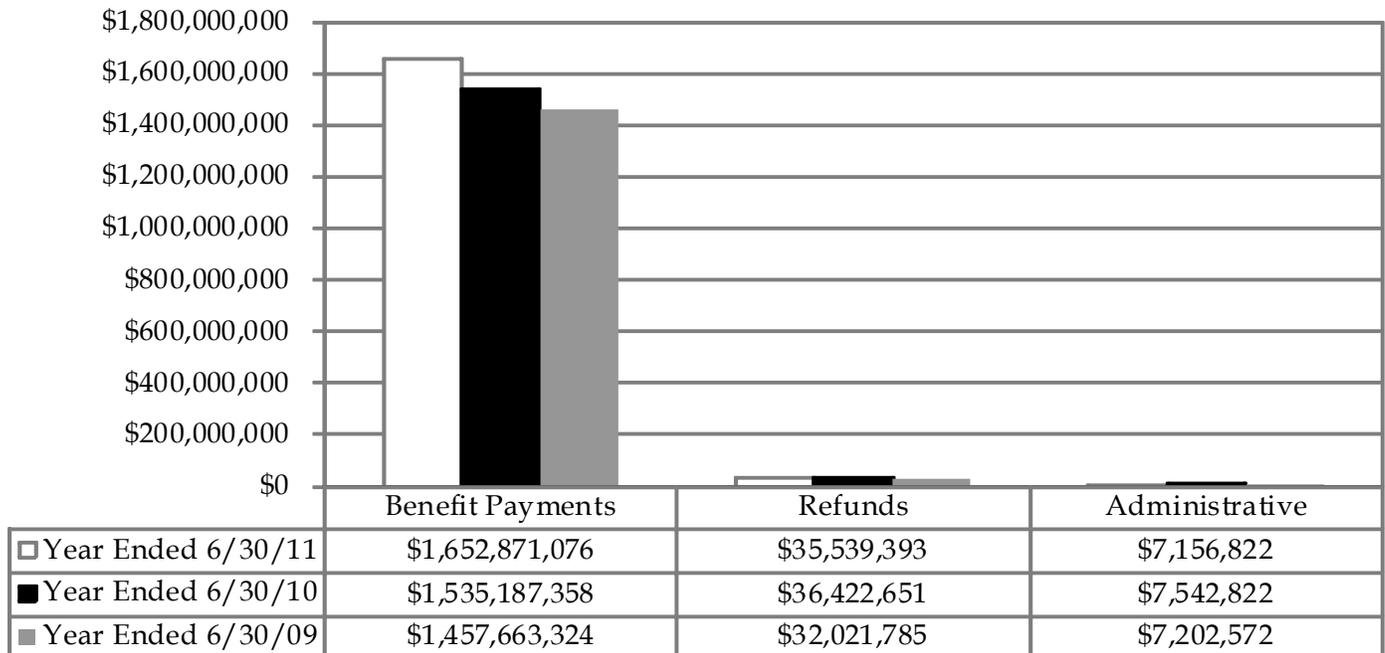
*(continued)*

**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM  
MANAGEMENT'S DISCUSSION AND ANALYSIS  
FOR THE YEARS ENDED JUNE 30, 2011 & JUNE 30, 2010 (CONTINUED)**

**REVENUES BY TYPE**



**EXPENSES BY TYPE**



*(continued)*

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**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM  
MANAGEMENT'S DISCUSSION AND ANALYSIS  
FOR THE YEARS ENDED JUNE 30, 2011 & JUNE 30, 2010 (CONTINUED)**

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**ECONOMIC FACTORS, FUTURE FUNDING PROVISIONS, OVERALL OUTLOOK**

For the year ended June 30, 2011, the portfolio delivered an exceptional return of 19.59% which was the strongest annual return for the fund since 1986. All major asset classes contributed significantly to the performance of the fund for the fiscal year.

The domestic equity portfolio generated 33.71% building on an increase of 13.73% from the prior year. The S&P 1500 index reported a gain of 31.65% for the fiscal year ended June 30, 2011. The international stock portfolio gained 33.01% for the year following the gain of 9.73% for the year ended June 30, 2010. The international equity market, as represented by the EAFE IMI index, reported a gain of 31.05% in the fiscal year ended June 30, 2011. Domestic fixed income returned 6% for the year and the portfolio transitioned from the use of the Citigroup Broad Investment Graded Index to the Citigroup Large Pension Fund Index. The Large Pension Fund Index returned 3.79% during the fiscal year while the Broad Investment Grade Index returned 3.66%. The Real Estate Portfolio gained 15.50% for the 2011 fiscal year which followed a loss of 16.33% in fiscal year 2010.

Equity and fixed income markets performed extremely well in the 2011 fiscal year largely as the result of significant monetary stimulus in the first quarter of the year along with generalized slow improvement in economic activity. However, the environment was characterized by signs of cyclical economic improvement somewhat offset by continuing deflationary pressures resulting from declining levels of private sector indebtedness. Dramatic monetary support appeared to provide a floor for economic activity during the year. While the overall economic and market outlook has improved, significant questions remain about the vitality and durability of the current rebound.

An actuarial valuation was performed as of July 1, 2009. The employer contribution rates determined in this valuation were effective July 1, 2010. The required contributions to the plan increased primarily due to investment returns and mortality improvements.

In December 2010, TCRS contracted with Deloitte Consulting, LLC, to provide a new pension administration system to replace the retirement information system. The new pension administration system, referred to as Concord, will replace five separate operating systems with one integrated web-based system that will greatly improve the level of service TCRS will provide to members and employers. The multi-year Concord project will be implemented in three major phases: document imaging, retired payroll, and active member. Software development costs have been capitalized and will be amortized over the useful life of the system once the system has been fully implemented.

**CONTACTING THE TCRS**

This report is designed to provide a financial overview of the TCRS to state legislators, members of the Board of Trustees of the TCRS, state officials, participating employers and any other interested parties. Questions or requests for additional information regarding the financial information presented in this report may be addressed in writing to the Tennessee Treasury Department, Consolidated Retirement System, 502 Deaderick Street, Nashville, TN 37243-0201.

**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM**  
**STATEMENTS OF PLAN NET ASSETS**  
**JUNE 30, 2011 AND JUNE 30, 2010**

*Expressed in Thousands*

	State Employees, Teachers, Higher Education Employees Pension Plan (SETHEEPP)	Political Subdivisions Pension Plan (PSPP)
<b>ASSETS</b>		
Cash and cash equivalents	\$ 340,115	\$ 74,019
Receivables		
Member receivable	19,570	5,266
Employer receivable	53,975	20,793
Accrued interest receivable	84,099	18,302
Accrued dividends receivable	39,371	8,569
Real estate income receivable	50	11
Derivative instruments receivable	319,386	69,508
Investments sold	732,599	159,437
Total receivables	<u>1,249,050</u>	<u>281,886</u>
Investments, at fair value		
Government securities	7,135,403	1,552,887
Corporate securities	4,554,482	991,198
Corporate stocks	14,640,474	3,186,225
Derivative instruments	9	2
Private equities	61,296	13,340
Real estate	891,538	194,026
Total investments	<u>27,283,202</u>	<u>5,937,678</u>
Capital assets, at cost		
Intangible asset	<u>1,558</u>	<u>339</u>
<b>TOTAL ASSETS</b>	<u>28,873,925</u>	<u>6,293,922</u>
<b>LIABILITIES</b>		
Accounts payable		
Death benefits and refunds payable	1,108	899
Retiree insurance premium payable	5,290	1,151
Other	97	0
Investments purchased	904,384	196,823
Derivative instruments payable	318,780	69,376
Other investment payables	<u>5,446</u>	<u>1,185</u>
<b>TOTAL LIABILITIES</b>	<u>1,235,105</u>	<u>269,434</u>
<b>NET ASSETS HELD IN TRUST FOR PENSION BENEFITS</b> (Schedules of funding progress for the plan are presented on page 33.)	<u>\$ 27,638,820</u>	<u>\$ 6,024,488</u>

*See accompanying Notes to the Financial Statements.*

*(continued)*

(CONTINUED)

June 30, 2011 Total	State Employees, Teachers, Higher Education Employees Pension Plan (SETHEEPP)	Political Subdivisions Pension Plan (PSPP)	June 30, 2010 Total
\$ 414,134	\$ 362,240	\$ 76,029	\$ 438,269
24,836	22,006	4,957	26,963
74,768	43,752	18,596	62,348
102,401	88,666	18,610	107,276
47,940	25,731	5,400	31,131
61	75	16	91
388,894	557,809	117,075	674,884
892,036	980,820	205,859	1,186,679
<u>1,530,936</u>	<u>1,718,859</u>	<u>370,513</u>	<u>2,089,372</u>
8,688,290	7,142,965	1,499,198	8,642,163
5,545,680	4,406,274	924,808	5,331,082
17,826,699	10,690,206	2,243,709	12,933,915
11	3,524	740	4,264
74,636	21,996	4,617	26,613
1,085,564	804,412	168,833	973,245
<u>33,220,880</u>	<u>23,069,377</u>	<u>4,841,905</u>	<u>27,911,282</u>
1,897	0	0	0
<u>35,167,847</u>	<u>25,150,476</u>	<u>5,288,447</u>	<u>30,438,923</u>
2,007	1,000	792	1,792
6,441	5,137	1,078	6,215
97	198	0	198
1,101,207	969,207	203,422	1,172,629
388,156	560,589	117,659	678,248
6,631	4,667	979	5,646
<u>1,504,539</u>	<u>1,540,798</u>	<u>323,930</u>	<u>1,864,728</u>
<u>\$ 33,663,308</u>	<u>\$ 23,609,678</u>	<u>\$ 4,964,517</u>	<u>\$ 28,574,195</u>

**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM**  
**STATEMENTS OF CHANGES IN PLAN NET ASSETS**  
**FOR THE YEARS ENDED JUNE 30, 2011 AND JUNE 30, 2010**

<i>Expressed in Thousands</i>	State Employees, Teachers, Higher Education Employees Pension Plan (SETHEEPP)	Political Subdivisions Pension Plan (PSPP)
<b>ADDITIONS</b>		
Contributions		
Member contributions	\$ 192,467	\$ 67,920
Employer contributions	721,759	273,781
Total contributions	<u>914,226</u>	<u>341,701</u>
Investment income		
Net appreciation in fair value of investments	3,785,947	811,706
Interest	462,425	99,143
Dividends	277,650	59,528
Real estate income, net of operating expenses	53,168	11,399
Total investment income	<u>4,579,190</u>	<u>981,776</u>
Less: Investment expense	<u>(26,453)</u>	<u>(5,760)</u>
Net investment income	<u>4,552,737</u>	<u>976,016</u>
<b>TOTAL ADDITIONS</b>	<u>5,466,963</u>	<u>1,317,717</u>
<b>DEDUCTIONS</b>		
Annuity benefits		
Retirement benefits	1,062,838	185,700
Survivor benefits	64,950	11,348
Disability benefits	27,360	4,780
Cost of living	256,137	34,259
Death benefits	4,054	1,444
Refunds	18,957	16,583
Administrative expense	3,525	3,632
<b>TOTAL DEDUCTIONS</b>	<u>1,437,821</u>	<u>257,746</u>
<b>NET INCREASE</b>	4,029,142	1,059,971
<b>NET ASSETS HELD IN TRUST FOR PENSION BENEFITS</b>		
BEGINNING OF YEAR	<u>23,609,678</u>	<u>4,964,517</u>
END OF YEAR	<u>\$ 27,638,820</u>	<u>\$ 6,024,488</u>

See accompanying Notes to the Financial Statements.

(continued)

(CONTINUED)

For the Year Ended June 30, 2011 Total	State Employees, Teachers, Higher Education Employees Pension Plan (SETHEPP)	Political Subdivisions Pension Plan (PSPP)	For the Year Ended June 30, 2010 Total
\$ 260,387	\$ 190,635	\$ 64,414	\$ 255,049
995,540	578,403	258,324	836,727
<u>1,255,927</u>	<u>769,038</u>	<u>322,738</u>	<u>1,091,776</u>
4,597,653	1,494,405	307,909	1,802,314
561,568	482,315	99,369	581,684
337,178	226,610	46,687	273,297
64,567	52,952	10,910	63,862
<u>5,560,966</u>	<u>2,256,282</u>	<u>464,875</u>	<u>2,721,157</u>
(32,213)	(23,877)	(4,934)	(28,811)
<u>5,528,753</u>	<u>2,232,405</u>	<u>459,941</u>	<u>2,692,346</u>
<u>6,784,680</u>	<u>3,001,443</u>	<u>782,679</u>	<u>3,784,122</u>
1,248,538	994,439	170,275	1,164,714
76,298	60,945	10,435	71,380
32,140	26,041	4,459	30,500
290,396	231,084	30,395	261,479
5,498	4,694	2,420	7,114
35,540	19,371	17,052	36,423
7,157	3,924	3,619	7,543
<u>1,695,567</u>	<u>1,340,498</u>	<u>238,655</u>	<u>1,579,153</u>
5,089,113	1,660,945	544,024	2,204,969
28,574,195	21,948,733	4,420,493	26,369,226
<u>\$ 33,663,308</u>	<u>\$ 23,609,678</u>	<u>\$ 4,964,517</u>	<u>\$ 28,574,195</u>

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**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**JUNE 30, 2011 AND JUNE 30, 2010**

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The Tennessee Consolidated Retirement System (TCRS) administers two defined benefit pension plans - State Employees, Teachers and Higher Education Employees Pension Plan (SETHEEPP) and Political Subdivisions Pension Plan (PSPP). Although the assets of the plans are commingled for investment purposes, each plan's assets may be used only for the payment of benefits to members of that plan, in accordance with the terms of the plan.

**A. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

1. **Reporting Entity** - The TCRS is included in the State of Tennessee Financial Reporting Entity. Because of the state's fiduciary responsibility, the TCRS has been included as pension trust funds in the *Tennessee Comprehensive Annual Financial Report*.
2. **Measurement Focus and Basis of Accounting** - The accompanying financial statements have been prepared in conformity with generally accepted accounting principles as prescribed by the Governmental Accounting Standards Board (GASB). The financial statements have been prepared using the flow of economic resources measurement focus and the accrual basis of accounting. Under this method, revenues are recorded when earned and expenses are recorded at the time liabilities are incurred.

Plan member contributions are recognized in the period of time for which the contributions are assessed. Plan employer contributions are recognized when due and the employer has made a formal commitment to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the terms of each plan.

3. **Cash and Cash Equivalents** - Cash and cash equivalents by definition, includes cash and short-term investments with a maturity date within three months of the acquisition date. The state's accounting policy regarding the definition of cash and cash equivalents includes cash management pools as cash. Cash received by the TCRS that cannot be invested immediately in securities, or that is needed for operations, is invested in the State Pooled Investment Fund sponsored by the State of Tennessee and administered by the State Treasurer. The classification of cash and cash equivalents also includes cash invested in a short-term, open-end mutual fund under the contractual arrangement for master custody services.
4. **Method Used to Value Investments** - Investments are reported at fair value. Securities traded on a national or international exchange are valued at the last reported sales price at current exchange rates. The fair value of real estate investments is determined at least every three years by qualified independent appraisers who are members of the Appraisal Institute and internally by real estate advisors for those years when independent appraisals are not performed. The fair value of private equity investments is determined by the fund managers using various methodologies as applicable under Generally Accepted Accounting Principles. In many cases, these valuations are additionally reviewed by advisory boards comprised of a subgroup of the fund's investors. These valuations are audited on an annual basis by independent accounting firms engaged by the private equity fund managers. Investment income includes realized and unrealized appreciation (depreciation) in the fair value of investments. Interest income is recognized when earned. Securities and securities transactions are recorded in the financial statements on trade-date basis. Real estate transactions are recorded in the financial statements at the time of closing.
5. **Capital Assets** - Capital assets consist of internally generated computer software in development and are reported at historical cost. Capital assets are defined by the state as assets with an initial individual cost of \$5,000 or more and an estimated useful life in excess of two years. Software in development was valued at June 30, 2009 and June 30, 2010 at zero and at June 30, 2011 was valued at \$1,896,671. Software in development will be depreciated over the ten year estimated life of the system once the system is completely operational.

(continued)

**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**JUNE 30, 2011 AND JUNE 30, 2010 (CONTINUED)**

**B. PLAN DESCRIPTIONS AND CONTRIBUTION INFORMATION**

At July 1, 2009, the date of the latest actuarial valuation, the membership of each plan consisted of the following:

	SETHEEPP	PSPP
Retirees and beneficiaries currently receiving benefits	76,955	30,920
Terminated members entitled to but not receiving benefits	21,577	8,823
Current active members	<u>136,147</u>	<u>78,803</u>
Total	234,679	118,546
Number of participating employers	140	482

**State Employees, Teachers and Higher Education Employees Pension Plan**

*Plan Description* – SETHEEPP is a cost-sharing, multiple employer defined benefit pension plan that covers the employees of the state, teachers with Local Education Agencies (LEA’s) and higher education employees. The TCRS provides retirement benefits as well as death and disability benefits to plan members and their beneficiaries. Benefits are determined by a formula using the member’s high five-year average salary and years of service. Members become eligible to retire at the age of 60 with five years of service or at any age with 30 years of service. A reduced retirement benefit is available to vested members who are at least 55 years of age or have 25 years of service. Disability benefits are available to active members with five years of service who become disabled and cannot engage in gainful employment. There is no service requirement for disability that is the result of an accident or injury occurring while the member was in the performance of duty. Members joining the plan on or after July 1, 1979 are vested after five years of service. Members joining prior to July 1, 1979 are vested after four years of service. Compounded cost of living adjustments (COLA) are provided each July based on the percentage change in the Consumer Price Index (CPI) during the previous calendar year except that (a) no COLA is granted if the CPI is less than one-half percent; (b) a COLA of 1 percent will be granted if the CPI increases between one-half percent and one percent; and (c) the maximum annual COLA is capped at three percent. Benefit provisions are established by state statute found in Title Eight, Chapters 34 through 37 of the *Tennessee Code Annotated*. State statutes are amended by the Tennessee General Assembly. Ad hoc increases may only be authorized by the General Assembly. Public safety officers receive an additional supplemental benefit that is paid from age 60 to age 62.

*Superseded Systems and Certain Employment Classifications* – Members of superseded systems that became members of the TCRS at consolidation in 1972, have their rights preserved to the benefits of the superseded system, if the benefit from the superseded plan exceeds that provided by the Group 1 (teachers and general employees) TCRS formula. Likewise, public safety employees and officials of TCRS Groups 2, 3 and 4 are entitled to the benefits of those formulas, if better than the Group 1 benefits.

*Contributions and Reserves* – Effective July 1, 1981, the plan became noncontributory for most state and higher education employees. The contribution rate for teachers is five percent of gross salary. The employers contribute a set percentage of their payrolls, determined by an actuarial valuation. *Tennessee Code Annotated* Title Eight, Chapter 37 provides that the contribution rates be established and may be amended by the Board of Trustees of the TCRS. The administrative budget for the plan is approved through the state of Tennessee’s annual budget process. Funding for the administrative budget is included in employer contributions.

The net assets of the plan are legally required to be reserved in two accounts, the Member Reserve and the Employer Reserve. The Member Reserve represents the accumulation of employee contributions plus interest. The Employer Reserve represents the accumulation of employer contributions, investment income and transfers from the Member Reserve for retiring members. Benefit payments and interest credited to the members’ accounts are reductions to the Employer Reserve. At June 30, 2011, the plan’s Member Reserve and Employer Reserve were fully funded with balances of \$3.7 billion and \$23.93 billion, respectively. At June 30, 2010, the plan’s Member Reserve and Employer Reserve were fully funded with balances of \$3.62 billion and \$19.98 billion, respectively.

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**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**JUNE 30, 2011 AND JUNE 30, 2010 (CONTINUED)**

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**Political Subdivisions Pension Plan**

*Plan Description* - PSPP is an agent multiple-employer defined benefit pension plan that covers the employees of participating political subdivisions of the state of Tennessee. Employee class differentiations are not made under PSPP. The TCRS provides retirement benefits as well as death and disability benefits to plan members and their beneficiaries. Benefits are determined by a formula using the member's high five-year average salary and years of service. Members become eligible to retire at the age of 60 with five years of service or at any age with 30 years of service. A reduced retirement benefit is available to vested members who are at least 55 years of age or have 25 years of service. Disability benefits are available to active members with five years of service who become disabled and cannot engage in gainful employment. There is no service requirement for disability that is the result of an accident or injury occurring while the member was in the performance of duty. Members joining the plan prior to July 1, 1979 are vested after four years of service. Members joining on or after July 1, 1979 are vested upon completion of 10 years of service, unless five years vesting is authorized by resolution of the chief governing body. Cost of living adjustments (COLA) are the same as provided by SETHEEPP except that the local government may elect (a) to provide no COLA benefits or (b) to provide COLA benefits under a non-compounding basis rather than the compounded basis applicable under SETHEEPP. Benefit provisions are established and amended by state statute. Pursuant to Article Two, Section 24 of the *Constitution of the State of Tennessee*, the state cannot mandate costs on local governments. Any benefit improvement may be adopted by the governing body of a governmental entity participating in the TCRS.

*Contributions and Reserves* - Political subdivisions may elect contributory or noncontributory retirement for their employees. The contribution rate for contributory employees of political subdivisions is five percent of gross salary. The employers contribute a set percentage of their payrolls, equal to at least, the percentage determined by an actuarial valuation. State statute provides that the contribution rates be established and may be amended by the Board of Trustees of the TCRS. The administrative budget for the plan is approved through the state's annual budget process. Funding for the administrative budget is included in employer contributions.

The net assets of the plan are legally required to be reserved in two accounts, the Member Reserve and the Employer Reserve. The Member Reserve represents the accumulation of employee contributions plus interest. The Employer Reserve represents the accumulation of employer contributions, investment income and transfers from the Member Reserve for retiring members. Benefit payments and interest credited to the members' accounts are reductions to the Employer Reserve. At June 30, 2011, the plan's Member Reserve and Employer Reserve were fully funded with balances of \$1.1 billion and \$4.92 billion, respectively. At June 30, 2010, the plan's Member Reserve and Employer Reserve were fully funded with balances of \$1.05 billion and \$3.91 billion, respectively.

**C. DEPOSITS AND INVESTMENTS**

State statute authorizes the TCRS to maintain cash, not exceeding ten percent of the total amount of funds in the retirement system, on deposit in one or more banks, savings and loan associations or trust companies that are qualified as state depositories. The TCRS does not utilize its own bank accounts but invests in the State Pooled Investment Fund for the initial deposit of funds and for its operating cash needs. The State Pooled Investment Fund is authorized by state statute to invest funds in accordance with policy guidelines approved by the Funding Board of the State of Tennessee. The current resolution of that board gives the Treasurer authority to invest in collateralized certificates of deposit in authorized state depositories, prime commercial paper, prime bankers' acceptances, certain repurchase agreements and various U.S. Treasury and Agency obligations. The State Pooled Investment Fund is also authorized to enter into securities lending agreements in which U.S. Government Securities may be loaned for a fee. The loaned securities are transferred to the borrower by the custodial agent upon simultaneous receipt of collateral securities.

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**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM  
NOTES TO THE FINANCIAL STATEMENTS  
JUNE 30, 2011 AND JUNE 30, 2010 (CONTINUED)**

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State statute also authorizes the TCRS to invest in bonds, debentures, preferred stock and common stock, real estate and in other good and solvent securities subject to the approval of the Board of Trustees, but further subject to the following statutory restrictions and provisions:

- a. The total sum invested in common and preferred stocks shall not exceed seventy-five percent (75 percent) of the total of the funds of the retirement system.
- b. The total sum invested in notes and bonds or other fixed income securities exceeding one year in maturity shall not exceed seventy-five percent (75 percent) of the total funds of the retirement system.
- c. Within the restrictions in (a) and (b) above, an amount not to exceed fifteen percent (15 percent) of the total of the funds of the retirement system may be invested in securities of the same kinds, classes, and investment grades as those otherwise eligible for investment in various approved foreign countries, provided that such percentage may be increased by the board with the subsequent approval of the council on pensions and insurance.
- d. Within the restrictions in (a) and (b) above, funds may be invested in Canadian securities which are substantially of the same kinds, classes and investment grades as those otherwise eligible for investment.
- e. The total amount of securities loaned under a securities lending program cannot exceed thirty percent (30 percent) of total assets.
- f. The total sum invested in real estate shall not exceed ten percent (10 percent) of the market value of total assets.
- g. The total sum invested in private equities shall not exceed five percent (5 percent) of the market value of total assets.

State statute also authorizes the TCRS to invest in forward contracts to hedge its foreign currency exposure and to purchase or sell domestic equity index futures contracts for the purpose of asset allocation relating to the domestic equity portfolio. The total amount of the financial futures contract obligation shall not exceed five percent (5 percent) of the market value of total assets. Gross exposure to approved fixed income financial instruments will be limited to 10% of the market value of the System's total assets for risk mitigating positions and 10% for risk positions. Position sizes will be measured by notional amounts. Options will be measured in their notional equivalents.

Title to real property invested in by the TCRS is held by real estate investment holding companies.

As of June 30, 2011 and June 30, 2010, the TCRS had the following investments:

*(continued)*

TENNESSEE CONSOLIDATED RETIREMENT SYSTEM  
 NOTES TO THE FINANCIAL STATEMENTS  
 JUNE 30, 2011 AND JUNE 30, 2010 (CONTINUED)

Investments  
 (Expressed in Thousands)

2011

Investment Type	Fair Value as of June 30, 2011	U.S. Treasury / Agency (1)	Credit Quality Ratings										Not Rated			
			AAA	AA	A	BBB	BB	B	CCC	CC	D	A1 (3)				
<u>Debt Investments</u>																
U.S. Govt. Agencies	\$ 311,472	\$ 102,034	\$ 164,431	\$ 16,960												\$ 28,047 (2)
U.S. Govt. Inflation Indexed	2,475,914	2,475,914														
U.S. Govt. Treasuries, Notes, Bonds	1,355,666	1,345,642	10,024													
U.S. Govt. Asset Backed	117,625	117,625														
Municipal Bonds	49,480		32,649	55,086	61,745											
Govt. Mortgage Backed	3,667,503	437,001	26,576													3,203,926 (2)
Commercial Mortgage Backed	381,608		306,660	64,905	10,043											
Corporate CMO's	313,391		56,374													
Corporate Bonds	3,764,808		138,541	290,304	1,117,282	196,717	168,915	28,325								3,875
Corporate Asset Backed	1,015,712		769,168	123,431	70,559	41,765										53,069
Non-U.S. Govt./Sovereign	610,630		290,256	320,374												1,637
Short-Term Commercial Paper	388,064															
Total Debt Investments	\$ 14,551,873	\$ 4,478,216	\$ 17,946,79	\$ 871,060	\$ 1,259,629	\$ 2,008,936	\$ 170,936	\$ 97,247	\$ 165,745	\$ 16,730	\$ 10,077	\$ 388,064	\$ 388,064	\$ 3,290,554		
<u>Other Investments</u>																
U.S. Equity	\$ 11,399,485															
Non-U.S. Equity	6,497,376															
Derivatives	11															
Real Estate	1,085,564															
Private Equities	74,636															
Money Market Funds (not rated)	113,893															
Total Other Investments	\$ 19,170,965															
Total Investments	\$ 33,722,838															
Less: Short-term Investments Classified as Cash Equivalents on the Statements of Plan Net Assets	(5019,588)															
Total Investments as Shown on Statements of Plan Net Assets	\$ 33,220,880															

(1) Includes obligations of the U.S. government or obligations explicitly guaranteed by the U.S. government.

(2) Includes securities that are implicitly guaranteed by the U.S. government, but are not rated by Standard and Poor's or Moody's.

(3) A1 is the highest rating category for commercial paper.

(continued)



**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**JUNE 30, 2011 AND JUNE 30, 2010 (CONTINUED)**

**Credit Risk** - Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. Credit quality ratings for the TCRS' investments in fixed income securities as of June 30, 2011 and June 30, 2010 are included in the above schedule. Securities are rated using Standard and Poor's and/or Moody's and are presented above using the Standard and Poor's rating scale. The State Pooled Investment Fund has not obtained a credit quality rating from a nationally recognized credit ratings agency.

The TCRS' investment policy specifies that bond issues subject for purchase are investment grade bonds rated in the four highest ratings by one of the recognized rating agencies. In addition, the policy states that private placements that do not have an active secondary market shall be thoroughly researched from a credit standpoint and shall be viewed by TCRS' investment staff as having the credit quality rating equivalent of an AA rating on a publicly traded issue. For short-term investments, the TCRS' investment policy provides for the purchase of only the highest quality debt issues. Commercial paper should be rated in the highest tier by all rating agencies which rate the paper, with a minimum of two ratings required. Commercial paper cannot be purchased if a rating agency has the commercial paper on a negative credit watch. The investment policy also requires preparation of a credit analysis report on the corporation prior to purchasing commercial paper.

As noted above, the TCRS does not utilize its own bank accounts but invests in the State Pooled Investment Fund for its operating cash purposes. Required risk disclosures relative to the State Pooled Investment Fund are presented in the *State of Tennessee Treasurer's Report*. That report is available on the state's website at [www.tn.gov/treasury](http://www.tn.gov/treasury).

**Concentration of Credit Risk** - A concentration of investments in any one single issuer of debt securities presents a greater risk for loss in the event that the issuer fails on its obligations. The TCRS had the following investment amounts and percentages of plan net assets, in organizations representing five percent or more of plan net assets, excluding those organizations whose issues are explicitly guaranteed by the United States government, and investments in mutual funds, external investment pools, and other pooled investments:

Issuer Organization	June 30, 2011		June 30, 2010	
	Fair Value	Percentage	Fair Value	Percentage
Federal National Mortgage Association	\$2,029,898,227	6.03%	\$1,989,031,439	6.96%

The TCRS' investment policy limits the maximum amount of a specific corporation's commercial paper that can be purchased to \$100 million. There are no specific investment policies that limit investment in any one issuer.

(continued)

**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**JUNE 30, 2011 AND JUNE 30, 2010 (CONTINUED)**

**Interest Rate Risk** – Interest rate risk is the risk that future changes in prevailing market rates of interest will have an adverse effect on the fair value of debt investments. The fair values of securities with long terms to maturity may be highly sensitive to interest rate changes. The TCRS’ investment policy does not specifically address limits on investment maturities. The fixed income portfolio, however, is benchmarked against the Citigroup Broad Investment Grade Index and tends to have a duration within a range around that index. Duration is a measure of a debt investment’s exposure to fair value changes arising from changing interest rates. It uses the present value of cash flows weighted for those cash flows as a percentage of the investment’s full price. The TCRS had the following investments and effective duration at June 30, 2011 and June 30, 2010.

**Debt Investments**

*(Expressed in Thousands)*

Investment Type	Fair Value as of June 30, 2011	Effective Duration (years)
<u>Debt Investments</u>		
Government Agencies	\$ 397,214	5.50
Government Bonds	1,870,530	9.25
Government Inflation Indexed	2,475,914	3.80
Government Mortgage Backed	3,667,503	2.89
Government Asset Backed	117,625	6.31
Municipal Bonds	149,480	10.56
Collateralized Mortgage Obligations (CMO)	313,391	3.82
Commercial Mortgage Backed	381,608	2.21
Corporate Asset Backed Securities	1,015,712	0.71
Corporate Bonds	3,764,808	6.83
Guaranteed Fixed Income	10,024	0.25
Short Term Commercial Paper	388,064	0.01
Total Debt Investments	\$ 14,551,873	4.83

Investment Type	Fair Value as of June 30, 2010	Effective Duration (years)
<u>Debt Investments</u>		
Government Agencies	\$ 526,862	5.29
Government Bonds	2,287,577	7.03
Government Inflation Indexed	2,331,362	4.13
Government Mortgage Backed	3,227,127	1.93
Government Asset Backed	141,172	5.75
Municipal Bonds	118,024	9.00
Collateralized Mortgage Obligations (CMO)	410,479	3.44
Commercial Mortgage Backed	454,043	2.31
Corporate Asset Backed Securities	959,443	0.55
Corporate Bonds	3,480,680	5.32
Guaranteed Fixed Income	10,039	0.25
Short Term Commercial Paper	251,101	0.02
Short Term Agencies	160,997	0.02
Total Debt Investments	\$ 14,358,906	4.05

*(continued)*

**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**JUNE 30, 2011 AND JUNE 30, 2010 (CONTINUED)**

**Asset-Backed Securities** - The TCRS invests in various collateralized mortgage obligations (CMOs) which are mortgage-backed securities. These securities are based on cash flows from interest and principal payments on underlying mortgages and could therefore be more sensitive to prepayments by mortgagees as a result of a decline in interest rates. The fair value of CMOs at June 30, 2011 was \$694,999,254 of which \$427,338,919 were CMOs that are generally more sensitive to interest rate changes. The fair value of CMOs at June 30, 2010 was \$864,521,465 of which \$510,179,228 were CMOs that are generally more sensitive to interest rate changes.

**Foreign Currency Risk** - Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment or deposit. The TCRS' investment policy limits the asset allocation for international investments to twenty-five percent of total assets. The TCRS' exposure to foreign currency risk at June 30, 2011 and June 30, 2010 was as follows:

**Foreign Currency-Denominated Investments**  
*(Expressed in Thousands)*

Currency	Total Fair Value June 30, 2011	Fixed income	Equity	Cash
Australian Dollar	\$ 284,181	\$ 0	\$ 284,011	\$ 170
British Pound Sterling	1,042,358	67,057	975,026	275
Canadian Dollar	1,831,495	112,936	1,717,840	719
Danish Krone	69,323	0	69,163	160
Euro Currency	1,397,786	99,868	1,287,817	10,101
Hong Kong Dollar	134,900	0	134,886	14
Japanese Yen	1,308,285	320,374	984,129	3,782
New Israeli shekel	11,348	0	11,348	0
New Zealand Dollar	4,964	0	4,945	19
Norwegian Krone	89,807	23,985	65,639	183
Singapore Dollar	76,919	0	76,899	20
Swedish Krona	111,190	0	110,983	207
Swiss Franc	321,680	0	321,112	568
<b>Total</b>	<b>\$ 6,684,236</b>	<b>\$ 624,220</b>	<b>\$ 6,043,798</b>	<b>\$ 16,218</b>

Currency	Total Fair Value June 30, 2010	Fixed income	Equity	Cash
Australian Dollar	\$ 211,803	\$ 13,958	\$ 195,247	\$ 2,598
British Pound Sterling	854,109	105,779	746,819	1,511
Canadian Dollar	377,014	118,842	257,339	833
Danish Krone	57,646	0	57,479	167
Euro Currency	1,144,340	263,623	853,859	26,858
Hong Kong Dollar	116,389	0	115,557	832
Japanese Yen	1,445,642	595,061	851,743	(1,162)
New Zealand Dollar	5,809	0	5,809	0
Norwegian Krone	56,697	11,098	45,273	326
Singapore Dollar	58,583	0	57,470	1,113
Swedish Krona	67,405	0	67,393	12
Swiss Franc	241,077	0	240,991	86
<b>Total</b>	<b>\$ 4,636,514</b>	<b>\$ 1,108,361</b>	<b>\$ 3,494,979</b>	<b>\$ 33,174</b>

*(continued)*

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**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**JUNE 30, 2011 AND JUNE 30, 2010 (CONTINUED)**

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**Derivatives** - The TCRS may buy or sell fixed income and equity index futures contracts for the purposes of making asset allocation changes in an efficient and cost effective manner and to improve liquidity. Gains (losses) on futures hedge losses (gains) produced by any deviation from the TCRS' target allocation. The gains and losses resulting from daily fluctuations in the fair value of the outstanding futures contract are settled daily, on the following day, and a receivable or payable is established for any unsettled gain or loss as of the financial statement date. At year end, the TCRS was under contract for fixed income and equity index futures and the resulting payable is reflected in the financial statements at fair value.

The international securities expose the TCRS to potential losses due to a possible rise in the value of the US dollar. The TCRS investment managers can reduce foreign currency exposure by selling foreign currency forward contracts, at agreed terms and for future settlement, usually within a year. The manager will reverse the contract by buying the foreign currency before the settlement date. A gain (loss) on this transaction pair will hedge a loss (gain) on the currency movement of the international security. The TCRS can sell up to 80% of its foreign currency exposure into US dollars. Foreign currency forward contracts expose the TCRS to foreign currency risk as they are denominated in foreign currency. Any unrealized gain on foreign currency forward contracts has been reflected in the financial statements as an investment. The notional amount of the foreign currency forward contracts has been reflected in the financial statements as a receivable and a payable. Any unrealized loss on foreign currency forward contracts has been included in the payable established for the contracts.

The TCRS is authorized to invest in To Be Announced (TBA) mortgage backed securities similar to the foreign currency forward contracts. The TCRS enters into agreements to purchase pools of mortgage backed securities prior to the actual security being identified. The TCRS will roll this agreement prior to settlement date to avoid taking delivery of the security. Any unrealized gain on TBA mortgage backed securities has been reflected in the financial statements as an investment. Any unrealized loss on TBA mortgage backed securities has been included in the payable established for the mortgages. The notional amounts of these agreements have been included in the financial statements as a receivable and a payable. The TCRS invests in these derivatives to adjust its exposure to mortgage coupon risk and to replicate the return on mortgage backed securities portfolios without actually purchasing the security.

The TCRS is authorized to enter into option contracts and any income earned on option contracts has been included in investment income in the financial statements. At year end, the TCRS was under contract for options and the resulting payable is reflected in the financial statements at fair value.

The fair value balances and notional amounts of derivative instruments outstanding at June 30, 2011 and June 30, 2010, classified by type, and the changes in fair value of such derivative instruments for the years then ended as reported in the financial statements are as follows:

*(continued)*

**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**JUNE 30, 2011 AND JUNE 30, 2010 (CONTINUED)**

**Derivative Summary**

(Expressed in Thousands)

	Changes in Fair Value		Fair Value at June 30, 2011			
	Financial	Amount	Financial	Amount	Notional	Currency
	Statement		Statement			
	Classification		Classification			
Foreign Currency						
Forward Contracts		\$ (121)		\$ (121)	4,450	AUD
		(1,304)		(1,304)	65,000	CAD
		(953)		(953)	37,260	EUR
	Investment		Derivative Instruments			
	Income	\$ (2,378)	Payable	\$ (2,378)		
Futures Contracts	Investment		Derivative Instruments			
	Income	\$ 485,290	Receivable	\$ 3,883	\$1,585,441	
Options Contracts	Investment		Derivative Instruments			
	Income	\$ (17)		\$ 11	\$ 11	
TBA Mortgage	Investment		Derivative Instruments			
Backed Securities	Income	\$ (767)	Payable	\$ (767)	\$ 260,632	

	Changes in Fair Value		Fair Value at June 30, 2010			
	Financial	Amount	Financial	Amount	Notional	Currency
	Statement		Statement			
	Classification		Classification			
Foreign Currency						
Forward Contracts		\$ 2,575		\$ 2,575	99,000	CAD
		185		185	19,030	EUR
		73		73	8,270	GBP
		(536)		(536)	6,287,850	JPY
	Investment		Derivative Instruments			
	Income	\$ 2,297		\$ 2,297		
Futures Contracts	Investment		Derivative Instruments			
	Income	\$ (23,484)	Payable	\$ (3,364)	\$ 105,747	
TBA Mortgage	Investment		Derivative Instruments			
Backed Securities	Income	\$ 1,967		\$ 1,967	\$ 474,634	

The fair values of foreign currency forward contracts are estimated based on the present value of their estimated future cash flows. Futures, Options and TBA mortgage backed securities are exchange traded and their price is based on quoted market prices at year end. It is the TCRS policy to conduct derivative transactions through the custodian bank and high quality money center banks or brokerage firms. The credit risk of foreign currency forward contracts is managed by limiting the term of the forward contracts and restricting the trading to high quality banks. The credit risk of futures contracts is managed by maintaining a daily variation margin.

(continued)

**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**JUNE 30, 2011 AND JUNE 30, 2010 (CONTINUED)**

**D. COMMITMENTS**

**Standby Commercial Paper Purchase Agreement** - The TCRS has agreed to serve as standby commercial paper purchaser for commercial paper issued by the Funding Board of the State of Tennessee. By serving as a standby commercial paper purchaser, the TCRS receives an annual fee of 60 basis points on the \$350 million maximum issuance under this agreement during times when both Moody's and Standard and Poor's investment ratings assigned to the State of Tennessee's general obligation bonds are Aaa and AAA respectively, 80 basis points during times when either Moody's or Standard and Poor's has assigned ratings of Aa and AA respectively, or 105 basis points during times when either Moody's or Standard and Poor's has assigned ratings lower than Aa and AA respectively. In the unlikely event that the TCRS would be called upon to purchase the commercial paper, the TCRS would receive interest at a rate equal to prime plus 75 basis points during the first 30 consecutive days, plus an additional 50 basis points for each consecutive 30 days thereafter, up to a maximum rate allowed by state law.

**Pending Real Estate Items** - At June 30, 2011 the TCRS did not have any commitments for pending real estate purchases. At June 30, 2010 the TCRS had unfunded commitments of \$28,500,000 for pending real estate purchases.

**Alternative Investments** - The TCRS had unfunded commitments of \$324.1 million and \$298.9 million in limited partnerships as of June 30, 2011 and June 30, 2010, respectively.

**E. FUNDED STATUS AND FUNDING PROGRESS**

The funded status of each plan as of July 1, 2009, the most recent actuarial valuation date, is as follows (dollar amounts in thousands):

<b>SCHEDULES OF FUNDING PROGRESS</b>						
<i>(Expressed in Thousands)</i>						
	<b>Actuarial Value of Plan Assets (a)</b>	<b>Actuarial Accrued Liability (AAL) Frozen Entry Age (b)</b>	<b>Unfunded AAL (UAAL) (b-a)</b>	<b>Funded Ratio (a/b)</b>	<b>Annual Covered Payroll (c)</b>	<b>UAAL as a Percentage of Covered Payroll ((b-a)/c)</b>
<b>SETHEEPP</b>	\$ 26,335,199	\$ 29,054,966	\$ 2,719,767	90.64%	\$ 6,054,528	44.92%
<b>PSPP</b>	\$ 5,304,455	\$ 6,143,775	\$ 839,320	86.34%	\$ 2,282,082	36.78%

The TCRS uses the Frozen Entry Age actuarial cost method to calculate the annual required contribution (ARC). Effective July 1, 2009, the TCRS reestablished unfunded accrued liabilities for all groups.

The required schedule of funding progress immediately following the notes to the financial statements is intended to present multiyear trend information about whether the actuarial value of plan assets is increasing or decreasing over time relative to the actuarial accrued liability for benefits.

*(continued)*

**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**JUNE 30, 2011 AND JUNE 30, 2010 (CONTINUED)**

Additional information as of the latest actuarial valuation follows:

	<u>SETHEEPP</u>	<u>PSPP</u>
Valuation Date	July 1, 2009	July 1, 2009
Actuarial cost method	Frozen Entry Age	Frozen Entry Age
Amortization method	Level Dollar	Level Dollar
Remaining amortization period	20 years closed period	(1) closed period
Asset valuation method	5-year moving market average for FYE on or before June 30, 2007	5-year moving market average for FYE on or before June 30, 2007
	10-year moving market average for FYE after June 30, 2007	10-year moving market average for FYE after June 30, 2007
Actuarial assumptions:		
Investment rate of return	7.50%	7.50%
Projected salary increases	4.75% (2)	4.75% (2)
Included inflation at	3.00%	3.00%
Cost-of-living adjustments	2.50%	2.50%
Increase in Social Security wage base	3.50%	3.50%
(1) An actuarial valuation is performed on each political subdivision participating in the Political Subdivision Pension Plan. Each political subdivision selects the period over which their unfunded accrued liability is amortized, not to exceed 30 years.		
(2) Uniform rate that approximates the effect of a graded salary scale.		

**TENNESSEE CONSOLIDATED RETIREMENT SYSTEM  
REQUIRED SUPPLEMENTARY INFORMATION  
SCHEDULES OF FUNDING PROGRESS AND EMPLOYER CONTRIBUTIONS**

**SCHEDULES OF FUNDING PROGRESS**

*Expressed in Thousands*

	Actuarial Valuation Date	Actuarial Value of Plan Assets (a)	Actuarial Liability (AAL) Frozen Entry Age (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio (a/b)	Annual Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b-a)/c)
<b>SETHEEPP</b>	7/1/2009	\$ 26,335,199	\$ 29,054,966	\$ 2,719,767	90.64%	\$ 6,054,528	44.92%
	7/1/2007	\$ 26,214,995	\$ 27,240,151	\$ 1,025,156	96.24%	\$ 5,742,866	17.85%
	7/1/2005	\$ 23,627,161	\$ 23,666,967	\$ 39,806	99.83%	\$ 5,245,989	0.76%
<b>PSPP</b>	7/1/2009	\$ 5,304,455	\$ 6,143,775	\$ 839,320	86.34%	\$ 2,282,082	36.78%
	7/1/2007	\$ 4,897,974	\$ 5,475,620	\$ 577,646	89.45%	\$ 2,081,964	27.75%
	7/1/2005	\$ 4,124,013	\$ 4,450,127	\$ 326,114	92.67%	\$ 1,890,968	17.25%

The schedule of funding progress is intended to 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.

**SCHEDULES OF EMPLOYER CONTRIBUTIONS**

*Expressed in Thousands*

Year Ended June 30	SETHEEPP		PSPP	
	Annual Required Contribution	Percentage Contributed	Annual Required Contribution	Percentage Contributed
2011	\$ 721,759	100.00%	\$ 273,781	100.00%
2010	578,403	100.00%	258,324	100.00%
2009	583,985	100.00%	252,926	100.00%
2008	593,412	100.00%	244,847	100.00%
2007	562,729	100.00%	231,699	100.00%
2006	474,879	100.00%	191,000	100.00%

An actuarial valuation of the TCRS is performed every two years with the next valuation scheduled to be effective July 1, 2011.