# CORRECTIONS OFFICER RETIREMENT PLAN 



## 24th COMPREHENSIVE ANNUAL FINANCIAL REPORT

 A PENSION TRUST FUND OF THE STATE OF ARIZONA

FOR THE FISCAL YEAR ENDED JUNE 30, 2010

## Our Vision, Mission \& Values

## VISION

- Invest, secure and manage responsibly the retirement funds of its members in accordance with all legal, investment and financial requirements and in a manner consistent with the quality to which its members have become accustomed.


## MISSION

- To be a low cost, highly personalized quality service provider of funds management and benefit services.
- To manage long-term investments with the goal of consistently outperforming over time the composite weighted market return benchmark net of all investment related costs 50 as to assure the financial integrity of the funds and the security of the benefits these funds provide.


## VALUES

- Do what is best for our members and financial health and integrity of the System.
- Be proactive.
- Committed to high quality, uniform, sustainable service.
- Innovative and cost effective in Plan administration and services.
- Use best practices in HR management.


# Corrections Officer Retirement Plan 

# A Pension Trust Fund of the State of Arizona 

# Twenty-Fourth Comprehensive Annual Financial Report 

For the Fiscal Year Ended June 30, 2010

Prepared by the Staff of PSPRS
Public Safety Personnel Retirement System
3010 E. Camelback Road, Suite 200
Phoenix, AZ 85016
Phone (602)255-5575 Fax (602)255-5572
www.psprs.com

## TABLE OF CONTENTS

## INTRODUCTORY SECTION

Certificate of Achievement 6
Board of Trustees Transmittal Letter 7
Letter from the Administrator 10
Board of Trustees 14
Executive Staff and Organizational Chart 15
Professional Advisors 16

FINANCIAL SECTION
Independent Auditor Report 18
Management Discussion and Analysis 20
Basic Financial Statements
Statement of Plan Net Assets 24
Statement of Changes in Plan Net Assets 25
Notes to the Financial Statements 26
Required Supplementary Information
Schedule of Funding Progress
38
$\begin{array}{ll}\text { Schedule of Employer Contributions } & 38\end{array}$
Notes to the Required Supplementary Information 40
Supporting Schedules Information
Schedule of Changes in Fund Balance 41
Schedule of Receipts and Disbursements 42
Schedule of Administrative Expenses 43
$\begin{array}{ll}\text { Schedule of Consultant Expenses } & 43\end{array}$
Other Supplementary Information
Statement of Changes in Assets and Liabilities - Agency Fund 44
Statement of Funding Progress - Agency Fund 44

INVESTMENT SECTION
Chief Investment Officer's Letter 46
Fund Investment Objectives 48
Investment Performance
Asset Allocation 48
Annualized Rates of Return, Benchmark and Indices 49
Top 10 Investment Holdings 50
Summary of Changes in Investment Portfolio 50
Schedule of Commissions Paid to Brokers 50

## TABLE OF CONTENTS (continued)

Equity Portfolio ..... 52
Fixed Income Portfolio ..... 53
Alternative Investments Portfolio
Credit Opportunities Portfolio ..... 58
Private Equity Portfolio ..... 59
Real Assets Portfolio ..... 60
Real Estate Portfolio ..... 61
GTAA Securities Portfolio ..... 61
ACTUARIAL SECTION
Actuary Certification Letter ..... 64
Actuarial Balance Sheet ..... 65
Summary of Valuation Assumptions ..... 66
Solvency Test ..... 68
Summary of Active Member Data ..... 69
Summary of Retirees and Inactive Members ..... 70
Schedule of Experience Gain/Loss ..... 71
STATISTICAL SECTION
Statistical Summary ..... 74
Changes in Plan Net Assets - Last Ten Fiscal Years ..... 75
Schedule of Revenue by Source - Last Ten Fiscal Years ..... 76
Schedule of Expenses by Type - Last Ten Fiscal Years ..... 76
Deductions from Plan Net Assets for Benefits and Refunds by Type- Last Ten Fiscal Years ..... 76
Valuation Assets vs. Pension Liabilities - Last Ten Fiscal Years ..... 77
Contribution Rates - Last Ten Fiscal Years ..... 79
Distribution of Benefit Recipients by Location ..... 80
System Membership - Last Ten Fiscal Years ..... 80
Principal Participating Employers - Last Ten Fiscal Years ..... 81
Summary of Benefit Increases - Last Ten Fiscal Years ..... 81
Summary of Growth of the System - Last Ten Fiscal Years ..... 82
Benefits Payable June 30, 2010 by Benefit Type ..... 82
Average Monthly Benefits and Membership - Last Ten Fiscal Years ..... 83
Schedule of Changes in Member Reserve Balances ..... 84
Schedule of Changes in Employer Reserve Balances ..... 85
Schedule of Changes in Employers Earnings Distribution ..... 86
Participating Employers ..... 87

THIS PAGE INTENTIONALLY BLANK
Certificate of Achievement6
Board of Trustees Transmittal Letter ..... 7
Letter from the Administrator ..... 10
Board of Trustees ..... 14
Executive Staff and Organizational Chart ..... 15
Professional Advisors ..... 16

# Certificate of Achievement for Excellence in Financial Reporting 

Presented to

# Arizona Corrections Officer Retirement Plan 

For its Comprehensive Annual<br>Financial Report<br>for the Fiscal Year Ended

June 30, 2009
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.


Brian Tobin, Chairman
Lori Roediger, Vice Chairperson
Tim Dunne, Trustee
Gregory Ferguson, Trustee
Alan Maguire, Trustee
Jeff McHenry, Trustee
Randie Stein, Trustee

PUBLIC SAFETY PERSONNEL RETIREMENT SYSTEM CORRECTIONS OFFICER RETIREMENT PLAN ELECTED OFFICIALS' RETIREMENT PLAN

3010 East Camelback Road, Suite 200

Phoenix, Arizona 85016-4416
www.psprs.com
TELEPHONE: (602) 255-5575
FAX: (602) 255-5572

James M. Hacking
Administrator

Ryan Parham
Chief Investment Officer

Tracey D. Peterson
Assistant Administrator-COO

December 3, 2010

The Honorable Janice K Brewer
Governor of the State of Arizona
Executive Tower
1700 W. Washington
Phoenix, Arizona 85007

Dear Governor Brewer:

The Board of Trustees of the Public Safety Personnel Retirement System (PSPRS) respectfully submits the Twenty-fourth Comprehensive Annual Financial Report (CAFR) for the Corrections Officer Retirement Plan (CORP) for the fiscal year ended June 30, 2010 (FY'10), in accordance with the provisions of A.R.S. Section 38-883.

## The CORP's Funding Ratio

As of fiscal year-end, the financial status of the CORP, as reflected in its funding ratio, decreased from 82.6\% at June 30, 2009 to $80.3 \%$ at June 30, 2010. This decrease continues the funding ratio erosion that resumed last year following a modest improvement in FY '08 that interrupted six consecutive years of funding status decline. This negative trend in the financial condition of the Plan is due in large part to the asset value losses and negative rates of return that the Plan experienced in $\mathrm{FY} Y^{\prime} 01$ and $\mathrm{FY} Y^{\prime} 02$ and again in $\mathrm{FY}^{\prime} 08$ and $\mathrm{FY}{ }^{\prime} 09$. Those losses were largely the result of a lack of diversification in the deployment of the Plan's assets for investment purposes.

The funding ratio decrease this fiscal year occurred despite the fact that the Plan had an FY '10 rate of return (13.47\%) that was well in excess of its actuarial assumed rate of return (8.5\%). (For further information on the Plan's net assets and changes in net assets, please refer to the subsequent Management's Discussion and Analysis section of this Comprehensive Annual Financial Report (CAFR) which begins on page 20.)

Because the Plan uses a seven-year averaging process ("smoothing") to determine its fiscal year-end actuarial value of assets, only one-seventh of any fiscal year's investment gain or loss is reflected in that year's results. The remaining six-sevenths are rolled forward and reflected in the results over the next six fiscal years. That means that only one-seventh of the positive return that the Plan experienced in FY ' 10 is reflected in this fiscal year's results. That was more than offset by factoring into the FY '10 results, one-seventh portions of the $-7.19 \%$ and $-17.45 \%$ returns that the Plan experienced during FY'08 and FY'09 respectively. Those negative returns were due to the collapse of the U.S. housing market and the intense recession that followed. Because the remainder of the FY ' 08 and $\mathrm{FY}^{\prime} 09$ investment losses will be factored into the Plan's financial status results over the next several fiscal years, the expectation is that the Plan's funding ratio will continue to deteriorate unless this trend is offset by several consecutive years of much better-thanexpected rates of return or changes in the Plan's employee contribution rate and benefit structure or both.
If the CORP's funding ratio were calculated using fiscal year-end market value (rather than actuarial value) of assets, the Plan's funded status would be only $65.0 \%$, rather than $80.3 \%$. How to move the Plan, within a ten to twenty year time period, back to a state of financial soundness with an $80 \%$ funding ratio or better, calculated using market value, is clearly the principal challenge facing the PSPRS Board of Trustees.

Although the investment losses that the Plan sustained in FY'08 and FY' 09 have taken, and will continue to take, their toll on the financial status of the Plan, the principal structural impediment to restoring the Plan to a state of financial soundness in a reasonable period of time is the post retirement adjustment structure. Current CORP statutes require that in any year in which the Plan generates an investment return in excess of 9\%, one-half of the excess return over $9 \%$ must be diverted into the CORP's Reserve for Future Benefit Increases ("The Reserve"). These Reserve assets are used to finance the cost of the post-retirement adjustments payable to eligible beneficiaries of the Plan. However, these Reserve assets are not taken into account for funding ratio and employer contribution rate calculations. The Board of Trustees at their meeting on September 15, 2010 were told by the System's actuaries from Gabriel, Roeder, Smith \& Co. (GRS) that this diversion of excess return in good investment return years makes the PSPRS-administered Plans "unsustainable."

## Employer Contribution Rates

Any change in the CORP's fiscal year-end funding ratio impacts the employer contribution rate two fiscal years later. For example, a funding ratio change in Plan FY ' 10 will affect the employer contribution requirement during employer $\mathrm{FY}^{\prime} 12$.
When times were good and the CORP was over-funded, the CORP employers' contribution rates were abnormally low. (Each employer has its own rate that reflects the benefit liability for its own covered group.) For example, early in the current decade the computed aggregate employer contribution was only $1.71 \%$ of payroll.
But as the CORP's funding ratio eroded, the employer contribution requirement rose steadily until employer $\mathrm{FY}^{\prime} 09$ when the aggregate rate crested at 8.68\% of payroll. Although the aggregate employer rate declined modestly in employer FY'10, it is currently at $8.59 \%$. Based on the CORP's FY'10 results, the employer rate is projected to increase again, with a $9.50 \%$ aggregate rate payable in employer FY' 12 . That represents a $0.91 \%$ of payroll increase over the current rate. This increase in the employer aggregate rate reflects a combination of factors including the negative returns from FY'08 and FY'09 as well as the fact that covered payroll and salaries did not increase as expected. With further erosion in the CORP's funding status expected to occur over the next several years, the forecast is that the employer rate will continue to increase unless significant Plan changes are made.

As the new fiscal year progresses, the Board of Trustees and the System's Administrator will consult with representatives of the Plans' constituency groups and the contributing employers in an attempt to create a consensus for a combination of legislative changes that will reverse the present funding ratio/employer contribution rate trends and restore the CORP to a state of financial soundness within a reasonable period of time. But if these efforts to achieve a consensus fail or fall short, the PSPRS Board members, in their capacity as fiduciaries, will propose to the Legislature changes designed to assure the sustainability of the Plan.

## FY'10 Investment Results

The FY'10 net of fee rate of investment return for the CORP was $13.47 \%$. The return was $1.37 \%$ higher than the Plan's weighted composite rate of return benchmark, which was $12.10 \%$. In addition, on a "peer group" basis, the return was good enough to place the CORP in the second quartile (rank 32) of the public funds included in the ICC Public Fund Universe of 100 public retirement systems.

Clearly, the FY'10 investment result was much higher than the Plan's $8.5 \%$ actuarial assumed rate of return. However, because the return was in excess of $9 \%$, one-half of the return in excess of $9 \%$-- a total of $\$ 22.8$ million -- was diverted to the Plan's Reserve and, therefore, will not be available to help improve the Plan's funding ratio/employer contribution rate situation described above.

Clearly, the FY'10 in-flow of new assets to the Plan's Reserve was significant. However, it was only slightly greater than the $\$ 21.3$ million that was withdrawn from the Reserve to fully fund the post-retirement increase that was paid at the statutory maximum of $4 \%$ to all of the Plan's eligible benefit recipients on July 1, 2010. That excess of income over out-go left a Reserve balance of $\$ 18.7$ million. However, absent an infusion of new assets at June 30,2011 , the Reserve balance would only be sufficient to finance a partial post-retirement adjustment as of July 1,2011 . Moreover, as the number of eligible beneficiaries increases and the average benefit payable rises, the out-go from the CORP's Reserve will continue to increase. Therefore, it is expected that, at some point, the Reserve's balance will no longer be able to finance annual adjustments at the statutory $4 \%$ maximum.

## The Strategy to Improve the Plan's Funding Ratio and Decrease Employer Contribution Requirements

To help improve the CORP's funded status and reduce employer contribution rates, the System must generate, on a consistent basis, annual rates of return that meet or exceed the CORP's return expectations. In pursuit of that goal, PSPRS has been, for the last four fiscal years, going through a complete restructuring of the way in which the System manages and invests its Plans' assets with a view to dramatically increasing asset allocation diversification and diversification within asset classes. In the process, the CORP's over-weight reliance on equities has declined considerably and so has the total Fund's volatility.
Unfortunately, according to our GRS actuaries, we have a five percent or less probability of our being able to invest our way back to an $80 \%$ or higher funding status within ten to twenty years. Therefore, in advance of the 2011 legislative session, the PSPRS Board of Trustees intends to put forward a variety of legislative changes that will, in the aggregate, give us a seventy-five percent or higher probability of achieving our stated funding goal within our stated time-frame and we shall seek the support of our constituency groups and the System's employers and their organizations in this effort.

## Conclusion

As members of the PSPRS Board of Trustees, we intend to continue our efforts to assure the financial integrity of the System and its Plans and to faithfully serve the interests of the Plan's participants and beneficiaries.
We appreciate having the opportunity to serve the State of Arizona, its political subdivisions and its CORP stakeholders and we look forward to continuing to serve as members of the Board of Trustees for this System.

Respectfully submitted,


Brian Tobin, Chairman
Lori Roediger, Vice Chairperson
Tim Dunne, Trustee
Gregory Ferguson, Trustee
Alan Maguire, Trustee
Jeff McHenry, Trustee
Randie Stein, Trustee

PUBLIC SAFETY PERSONNEL RETIREMENT SYSTEM CORRECTIONS OFFICER RETIREMENT PLAN
ELECTED OFFICIALS' RETIREMENT PLAN
3010 East Camelback Road, Suite 200
Phoenix, Arizona 85016-4416
www.psprs.com
TELEPHONE: (602) 255-5575
FAX: (602) 255-5572

James M. Hacking
Administrator
Ryan Parham
Tracey D. Peterson
Chief Investment Officer

December 3, 2010

The Members of the Board of Trustees
Public Safety Personnel Retirement System (PSPRS)
3010 E. Camelback Road, Suite 200
Phoenix, Arizona 85016

Members:

Here is the Twenty-fourth Comprehensive Annual Financial Report (CAFR) of the operations and financial condition of the Arizona Corrections Officer Retirement Plan (CORP). This report is for the fiscal year ended June 30, 2010. The Plan is a uniform statewide retirement system that provides retirement, disability and survivor benefits, post-retirement adjustments and health insurance subsidies for state, county and local corrections officers, dispatchers and probation, surveillance and juvenile detention officers.

Arizona Revised Statutes Title 38 requires the Board of Trustees to transmit to the Governor and the Legislature this annual report within six months of the close of each fiscal year. Incorporated in this report are the audited financial statements, management's discussion and analysis, and other financial data from the June 30, 2010 report of Heinfeld, Meech \& Co. P.C., Certified Public Accountants and auditors for the System. Also included are the actuarial certification statement and the actuarial balance sheet from the June 30, 2010 actuarial valuation prepared by the System's actuary, Gabriel, Roeder, Smith \& Co. (GRS).

## Financial Information Reporting

The primary responsibility for the integrity and objectivity of the financial statements and related financial data rests with the management of the System. The financial statements were prepared in conformity with generally accepted accounting principles appropriate for government-sponsored defined benefit pension plans. Management believes that all other financial information included in this annual report is consistent with those financial statements.

It is the System's policy to have and maintain an effective system of accounting controls. We believe our controls are adequate to provide reasonable assurance that assets are safeguarded against loss or unauthorized use and to produce the records necessary for the preparation of financial information. There are limits inherent in all systems of internal controls based on the recognition that the costs of such systems should be related to the benefits to be derived. Management believes the System's controls provide this appropriate balance.

The System uses the accrual basis of accounting for both revenues and expenses. Contributions to the System are based on principles of level-cost financing with current service financed as a level percent of payroll on a current basis and prior service amortized as a level percent of payroll over a period of at least twenty but not more than thirty years.

## Revenues

Revenues for the Plan are derived from three sources: member contributions, employer contributions, and realized and unrealized returns on the invested assets of the Plan. As shown by the Schedule of Revenues by Source included in the Statistical Section later in this report, the Plan had an investment gain of $\$ 129.3$ million this fiscal year. That was supplemented by revenue from member contributions of $\$ 54.5$ million, direct employer contributions of $\$ 52.1$ million, and insurance premium taxes of $\$ 2.4$ million. Please refer to the Statistical Section for a ten-year history of revenues and expenses.

## Administrative and Investment Expenses

The CORP's FY'10 administrative and investment-related expenses totaled $\$ 5.1$ million, the same as last year. Administrative and investment expenses were approximately 47 basis points of the total assets managed. This is reasonable when compared with other public retirement systems. A dedicated staff and constantly improving internal expertise has enabled management to keep costs relatively low even though assets are being outsourced to external portfolio managers and even though service needs have escalated due to increasing numbers of participants and beneficiaries and the desire to provide consistent support to the CORP network of local boards that have important administrative functions to perform.

## Investments

The total rate of return on the PSPRS Plan assets for the fiscal year was $13.47 \%$ on a net of fees basis. This return was well in excess of the System's $8.5 \%$ actuarial assumed rate of return and also well in excess of the $9 \%$ statutory "threshold" that causes a new in-flow of assets ( $\$ 22.8$ million) to the Plan's Reserve for Future Benefit Increases. The Investment Section of this Report contains, among other things, graphs depicting the Plan's performance, a detailed summary of the investment portfolio, and commissions paid to investment professionals who provide services to PSPRS. All Plan investments were held in trust by BNY Mellon, the System's custodian bank.

## Enacted Legislation

During FY'10 the State Legislature approved, and the Governor signed, two bills that were of significance. The first was SB1124 that extended the Reverse Deferred Retirement Option Plan ("Reverse DROP") from June 30, 2011 through June 30, 2016.

The second bill, SB1006, changed the name of the Fund Manager to Board of Trustees, added two new Governor-appointed members to the Board (bringing the total to seven) and extended the terms of office for newly appointed Board members from three to five years.

## Actuarial and Funding Information

Funding a retirement system on a sound actuarial reserve basis involves the accumulation of substantial reserves to guarantee the payment of promised benefits. These reserves are invested and the rate of investment earnings, over time, is a major factor in determining the employer contribution requirement to meet the calculated level cost of the Plan.

The CORP is funded by a statutory participant contribution rate of $8.41 \%$ of gross payroll for those participants to whom was extended ordinary disability benefit protection in FY ' 08 and a contribution rate of $7.96 \%$ for all other participants in the Plan. The Plan's additional funding comes primarily from employer contributions, expressed as a level percent of gross payroll and is reset annually, depending on the results of the Plan's actuarial valuation and from the realized and unrealized returns on the invested assets of the Plan.

The most commonly used measure of a retirement system's funding progress is the ratio of the actuarial value of assets to actuarial accrued liability, often referred to as the "percent funded." The percent funded for the CORP had been declining for six out of the last seven years through FY'07. At that point in time, the Plan's funding ratio was $84.6 \%$. Following modest improvement in FY ' 08 , the funding ratio started to deteriorate again in FY'09; this trend continued during FY' 10 with the ratio falling to $80.3 \%$. Given the System's seven year averaging of investment results (actuarial "smoothing"), much of the effect of the FY'08 and FY'09 negative rates of return are yet to be reflected in the funding ratio of the CORP; therefore, the expectation is that the funding ratio will deteriorate further in the future.

While each employer has a different contribution rate, depending on the liability for its group of participating employees, the current aggregate rate for the contributing employers is $8.57 \%$. The aggregate rate that will take effect on July 1,2011 will be $9.50 \%$. Further decline in the Plan's funding ratio will cause employer rates to rise even further.

## Post Retirement Benefit Increases

State law provides for an annual benefit increase for CORP retirees (or their survivors) two years after retirement, regardless of age, or when the retiree (or survivor) attains age 55 and has been retired for a year. These increases are limited to a maximum of four percent. A benefit increase schedule can be found in the Statistical Section of this CAFR.

These benefit adjustments are fully funded on a present value basis from the assets that are accumulated in the CORP's Reserve for Future Benefit Increases. In any year in which the Plan generates a return in excess of $9 \%$, one-half of the return in excess of $9 \%$ is diverted to the Reserve. (The Plan's FY'10 13.47\% return resulted in a $\$ 22.8$ million flow of new assets into the Reserve.) These reserve assets are invested along with all other assets of the Plan.

The current Reserve balance, after subtracting the $\$ 21.3$ million needed to fund the present value of the July 1,2010 post retirement increase, is $\$ 18.7$ million. Absent an infusion of new assets into the CORP Reserve during FY'11, the Reserve's balance would only be sufficient to finance a partial postretirement adjustment as of July 1, 2011.

## Certificate of Achievement

The Government Finance Officers Association (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the System for the CORP's Comprehensive Annual Financial Report (CAFR) for the fiscal year ended June 30, 2009. This was the sixteenth consecutive year that the Plan has achieved this prestigious award. In order to be awarded a Certificate of Achievement, a governmental entity must publish an easily readable and efficiently organized CAFR. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. We believe our FY'10 Comprehensive Annual Financial Report continues to meet the Certificate of Achievement Program's requirements and we are submitting it to the GFOA to determine its eligibility for a certificate.

## New Developments and Management Initiatives

During this past fiscal year, the PSPRS Board of Trustees continued its strategic initiative that has changed the way in which the CORP's assets are managed and invested. (See the Board of Trustees' transmittal letter to the Governor that begins on page 7) In addition, there were other developments and initiatives that are worthy of note. These included the following:

- The FY'10 actual level of administrative spending was kept significantly below the budgeted amount and the FY'11 budget that was approved by the Board came in at less than $95 \%$ of the $\mathrm{FY}^{\prime} 10$ actual level of spending.
- The System continued its comprehensive and multi-year effort to assure that the CORP and PRPRS local board networks are properly structured and functioning so as to assure uniform administration of the statutory responsibilities delegated to them. Staff and other resources continue to be dedicated to this initiative. Within the last twelve months, the System's outreach efforts to provide training and education to local boards were intensified through more on-site visits, group meetings/consultations via conference call, video conference and webinars, the development of training modules which were made accessible through the PSPRS web site, the continued publication of a monthly local board newsletter, and the creation of a Local Board Reference Guide.
- The Internal Auditor/Compliance Officer developed and received approval for her annual audit plan and continued her monthly investments compliance review. In addition, the Auditor took over responsibility for approving capital calls made with respect to investment commitments approved by the Board.
- The System's multi-year document imaging (i.e., scanning) project continued to progress. Once the project is completed, a new "Work Flow" project will be initiated in accordance with the System's Strategic Plan.
- The System's IT Program Development staff created and implemented a new Members Only web site that enables members to view their account information, including their monthly bank deposit information.
- The Program Development staff also implemented a one thousand concurrent user "GoToMeeting.com" capability for Board of Trustee meetings and local board and other training meetings.
- A new once-a-day online database backup capability through Ibackup.com was implemented; this is in addition to our hourly backup to our secondary Denver site.
- The System's Disaster Recovery/Business Continuity capability was augmented by creating Disaster Recovery plans for the database application, the timing of the pension payroll process and key employee availability following a disaster.
- The T1 line connection between the Phoenix headquarters and the PSPRS Denver backup facility was replaced with a microwave connection and the bandwidth to the Denver facility was substantially increased to better accommodate our file transfer needs.


## New Initiatives for System FY'11

As we have moved through the first four months of the new fiscal year ( $\mathrm{FY}^{\prime} 11$ ), some new initiatives are underway and still others are planned. These include:

- Completing the RFP process for legal services that the Board requested and conducting an RFP process for external audit services after completion of the current audit cycle;
- Keeping administrative expenses significantly under the FY'11 budgeted levels and holding the recommended FY' 12 administrative budget to a level not to exceed $95 \%$ of FY '11 actual expenditures;
- Discontinuing the practice of mailing monthly bank deposit notices to beneficiaries following our educating them as to how to access their monthly payment information on-line via the Members Only website;
- Continuing to reduce the number of payment checks PSPRS issues monthly by converting more of them to ACH transfers and initiating the use of "pay cards;"
- Adding to the local board outreach, organization, education and training effort by creating a local board web site or "module" within the PSPRS database to make it possible for local board personnel to input or update data directly without having the PSPRS staff do it for them; and
- Securing the enactment of legislative proposals to restructure and redesign provisions of the PSPRS Plans, including CORP, to restore them to a state of financial soundness within a reasonable period of time and reduce employer contribution requirements in the process.


## Summary

This CORP CAFR is a product of the collective efforts of the staff, under the direction of the System's Board of Trustees. It is intended to provide complete and reliable information that will facilitate the management decision process and it serves as a means for determining compliance with the System's governance and investment policies and legal requirements. Copies of this report are provided to the Governor, State Auditor, Legislature and all our member constituency groups. We hope all recipients of this report find it informative and useful.
I would like to take this opportunity to express my gratitude to the members of the Board of Trustees, the staff, the System's advisors, and all others who have worked so diligently to assure the continued successful operation of the System. I look forward to the challenge of moving the System forward with a program of constructive and comprehensive change that will maintain high quality customer service and restore the PSPRS Plan to a state of financial soundness.

Respectfully submitted,


James M. Hacking
Administrator


Lori Roediger
Vice Chairperson


Tim Dunne
Trustee


Gregory Ferguson
Trustee


Alan Maguire
Trustee

EXECUTIVE STAFF AND ORGANIZATIONAL CHART


Ryan Parham
Chief Investment Officer


James M. Hacking
Administrator


Tracey D. Peterson
Assistant Administrator
Chief Operations Officer


## PROFESSIONAL ADVISORS

Albourne America, LLC
Bank of New York Mellon
Gabriel, Roeder, Smith \& Company
Heinfeld Meech \& Co., P.C.
HighGround, Inc.
Kutak Rock, LLP
McLagan Partners, Inc.
NEPC, LLC
Public Policy Partners
ORG Portfolio Management, LLC
Step Stone Group, LLC

International Alternative Investment Consultant
Custodian
Actuary
Independent Auditors
Legislative Liaison
General Counsel
Human Resource Consultant
Independent Investment Advisor
Legislative Liaison
Real Estate Consultant
Alternative Investment Consultant

A schedule of Administrative Consultant fees may be found in the Financial Section. A schedule of Investment Consultant fees, Brokerage Commissions and Research Expense may be found in the Investment Section.


## INDEPENDENT AUDITORS' REPORT

Board of Trustees<br>Public Safety Personnel Retirement System

We have audited the accompanying Statement of Plan Net Assets of the Corrections Officer Retirement Plan (CORP) as of and for the year ended June 30, 2010, and the related Statement of Changes in Plan Net Assets for the year then ended. These basic financial statements are the responsibility of CORP's management. Our responsibility is to express an opinion on these financial statements based on our audit. The comparative totals as of and for the year ended June 30, 2009, presented in the basic financial statements are included for additional analysis only. Our audit report dated December 1, 2009, expressed an unqualified opinion on those statements; however, we have not performed any auditing procedures on this information since the date of our report.

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 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 audit provides a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets of the Corrections Officer Retirement Plan, as of June 30, 2010, and the changes in net assets for the year then ended in conformity with accounting principles generally accepted in the United States of America.

As described in Note 2, the Corrections Officer Retirement Plan implemented the provisions of the Governmental Accounting Standards Board (GASB) Statement No. 53, Accounting and Financial Reporting for Derivative Instruments, for the year ended June 30, 2010, which represents a change in accounting principle.

In accordance with Government Auditing Standards, we have also issued our report dated December 3, 2010, on our consideration of the Corrections Officer Retirement Plan's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is 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.

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis on pages 20 through 23 and the Schedule of Funding Progress and Schedule of Employer Contributions on pages 38 through 40 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise CORP's financial statements. The Introductory Section, Supporting Schedules Information, Other Supplementary Information, Investment Section, Actuarial Section and Statistical Section are presented for purposes of additional analysis and are not a required part of the financial statements. The Supporting Schedules Information and Other Supplementary Information, as listed in the table of contents under the Financial Section, have been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the financial statements as a whole. The Introductory Section, Investment Section, Actuarial Section and Statistical Section have not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we express no opinion on them.


HEINFELD, MEECH \& CO., P.C. Certified Public Accountants

December 3, 2010

## CORP MANAGEMENT DISCUSSION \& ANALYSIS

The Corrections Officer Retirement Plan's discussion and analysis is designed to assist the reader in focusing on significant financial issues, provide an overview of the Plan's financial activity, identify changes in the Plan's financial position and identify any issues or concerns.

Since the Management's Discussion and Analysis (MD\&A) is designed to focus on the current year's activities, resulting changes and currently known facts, it is intended to be read in conjunction with the Transmittal Letter, Financial Statements and Notes to the Financial Statements.

## FINANCIAL HIGHLIGHTS

Key financial highlights for 2010 are as follows:

- The Corrections Officer Retirement Plan (CORP) had a total rate of return (net of fees) of $13.47 \%$ this year. Our total portfolio outperformed the target fund benchmark by 137 basis points. This is a significant improvement over the prior year's return of - $17.75 \%$.
- As of the close of the fiscal year 2010, the Future Benefit Increase Reserve was $\$ 18.7$ million. The infusion of new assets into the Reserve was sufficient to finance a full $4 \%$ post-retirement adjustment as of July 1, 2010. However, payment of a post-retirement adjustment for July 1, 2011 will again depend on an additional infusion of new assets into the Reserve.
- Retirement benefits paid totaled $\$ 64.0$ million for the current year, compared to $\$ 55.5$ million for the previous year. This represents a $15.4 \%$ increase from the prior year. The majority of this increase is the result of the cost of post-retirement adjustments paid to the retirees or their survivors of the Plan and an increase in retirements.


## OVERVIEW OF THE FINANCIAL STATEMENTS

## Using this Comprehensive Annual Financial Report (CAFR)

This annual report consists of a series of financial statements and notes to those financial statements. These statements are organized so the reader can understand the Plan as an operating entity. The statements and notes then proceed to provide an increasingly detailed look at specific financial activities.

## The Statement of Net Assets and The Statement of Changes in Net Assets

These statements include all assets and liabilities of the Plan using the accrual basis of accounting, which is similar to the accounting used by most private-sector companies. These two statements report the Plan's net assets and changes in them. Net assets are the difference between assets and liabilities, one way to measure the financial health, or financial position. Over time, increases or decreases in the net assets are one indicator of the financial health of the Plan.

## Notes to the Financial Statements

The notes provide additional information that is essential to a full understanding of the data provided in the financial statements. The notes can be found immediately following The Statement of Net Assets and The Statement of Changes in Net Assets.

## Required Supplementary Information

The basic financial statements are followed by a section of required supplemental information. This section includes the Schedule of Funding Progress and the Schedule of Employer Contributions.

## The Schedule of Funding Progress

Shows the ratio of assets as a percentage of the actuarial accrued liability (funding ratio) and the ratio of unfunded actuarial accrued liabilities to member payroll. The trend in these two ratios provides information about the financial strength of the Plan. Improvement is indicated when the funding ratio is increasing and the ratio of the unfunded actuarial accrued liability to payroll is decreasing.

## The Schedule of Employer Contributions

Shows the Annual Required Contributions by fiscal year. The purpose of this schedule is to provide information about the required contributions of the employers and the extent to which those contributions are being made. The information should assist users in understanding the changes and possible reasons for the changes in the Plan's funding status over time.

## Supporting Schedules and Supplementary Information

The Supporting Schedules and Other Supplemental Information Section include the Supporting Schedule of Changes in Fund Balance Reserves, Supporting Schedule of Administrative Expenses and Payments to Consultants, the Supplemental Schedule of Cash Receipts and Cash Disbursements and the Agency Fund Statement of Changes in Assets and Liabilities (see Note 7). The total columns and information provided on these schedules carry forward to the applicable financial statement.

## FINANCIAL ANALYSIS OF THE PLAN

The following schedules present comparative summary financial statements of the System for FY10 and FY09. Following each schedule is a brief summary of the significant changes noted in these schedules.

SUMMARY COMPARATIVE STATEMENTS OF PLAN NET ASSETS

|  | As of 06/30/2010 | As of 06/30/2009 | Change | \%Change |
| :--- | ---: | ---: | ---: | ---: |
| Cash and Short-Term Investments | $\$ 12,494,835$ | $\$ 16,515,717$ | $\$(4,020,881)$ | $(24.35) \%$ |
| Total Receivables | $18,943,401$ | $5,513,315$ | $13,430,087$ | 243.59 |
| Total Investments | $1,092,448,589$ | $942,245,820$ | $150,202,767$ | 15.94 |
| Securities Lending Collateral | $120,324,821$ | $148,494,789$ | $(28,169,968)$ | $(18.97)$ |
| Net Capital Assets | 675,362 | 694,518 | $(19,156)$ | $(2.76)$ |
| Total Plan Assets | $\mathbf{1 , 2 4 4 , 8 8 7 , 0 0 8}$ | $\mathbf{1 , 1 1 3 , 4 6 4 , 1 5 7}$ | $\mathbf{1 3 1 , 4 2 2 , 8 5 1}$ | $\mathbf{1 1 . 8 0}$ |
| Accrued Accounts Payable | $1,813,876$ | $1,915,885$ | $(102,009)$ | $(5.32)$ |
| Investment Purchases Payable | $9,959,008$ | $2,037,367$ | $\mathbf{7 , 9 2 1 , 6 4 1}$ | 388.82 |
| Securities Lending Collateral | $120,324,821$ | $\mathbf{1 4 8 , 4 9 4 , 7 8 9}$ | $(28,169,968)$ | $(18.97)$ |
| Total Plan Liabilities | $\mathbf{1 3 2 , 0 9 7 , 7 0 5}$ | $\mathbf{1 5 2 , 4 4 8 , 0 4 1}$ | $\mathbf{( 2 0 , 3 5 0 , 3 3 6 )}$ | $\mathbf{( 1 3 . 3 5 )}$ |
| Net Assets | $\mathbf{\$ 1 , 1 1 2 , 7 8 9 , 3 0 3}$ | $\mathbf{\$ 9 6 1 , 0 1 6 , 1 1 6}$ | $\mathbf{\$ 1 5 1 , 7 7 3 , 1 8 7}$ | $\mathbf{1 5 . 7 9 \%}$ |

## Summary Comparative Statements of Plan Net Assets Analysis

The total plan net assets held in trust for benefits at June 30, 2010 were $\$ 1.1$ billion, a $15.79 \%$ increase from $\$ 961.0$ million at June 30,2009 . The increase in net assets is primarily due to favorable financial markets during the fiscal year. The decrease in cash or increase in receivables is attributable to normal fluctuations in investment income receivables during the year. CORP is fully deploying cash in other investments vehicles like exchange traded funds, equities, fixed income and private equity. Detailed information regarding the Plan's investment portfolio is included in the investment section of this report. The decrease in security lending collateral is due to normal fluctuations in the lending program as well as an increase in exposure to other alternative investments. The investment of the collateral fluctuated in a similar manner.

|  | E STATEMENTS | HANGES IN PLAN | SSETS |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2010 | 2009 | Change | \% Change |
| ADDITIONS |  |  |  |  |
| Total Contributions | \$ 107,279,216 | \$ 107,334,882 | \$ (55,666) | (0.05)\% |
| Net Investment Income | 129,267,190 | $(216,313,556)$ | 345,580,746 | 159.76 |
| Transfers and Service Purchases | 542,806 | 370,781 | 172,025 | 46.40 |
| Total Additions (Reductions) | 237,089,212 | $(108,607,893)$ | 345,697,105 | 318.30 |
| DEDUCTIONS |  |  |  |  |
| Benefits | 64,039,674 | 55,488,890 | 8,550,784 | 15.41 |
| Service Transfers and Refunds | 20,360,973 | 15,410,121 | 4,950,852 | 32.13 |
| Administrative Expenses | 915,378 | 1,064,826 | $(149,448)$ | (14.03) |
| Total Deductions | 85,316,025 | 71,963,836 | 13,352,189 | 18.55 |
| Net Increase (Decrease) | 151,773,187 | $(180,571,729)$ | 332,344,916 | 184.05 |
| Balance Beginning of Year - July 1 | 961,016,116 | 1,141,587,845 | $(180,571,729)$ | (15.82) |
| Balance End of Year - June 30 | \$1,112,789,303 | \$961,016,116 | \$151,773,187 | 15.79 \% |

## Summary Comparative Statements of Changes in Plan Net Assets Analysis

There was a slight decrease in employer and employee contributions of $\$ 55.6$ thousand in relation to 2009 due to a decrease in the employer contribution rates from $8.65 \%$ to $7.49 \%$. Additionally, due to economic conditions, layoffs and furloughs have resulted in a decline in salaries paid active members.
For FY 2010, CORP recognized a net investment gain of $\$ 129.3$ million which compares to a loss of $\$ 216.3$ million in the previous year. This $159.8 \%$ increase in income was due to the more positive returns in the financial markets during the fiscal year.
Deductions from the CORP net assets held in trust for benefits consist primarily of pension, disability, survivor benefits, member refunds and administrative expenses. For FY 2010, these deductions totaled $\$ 85.3$ million, an increase of $18.6 \%$ from the $\$ 72.0$ million paid during FY 2009. The total benefit payments increase is due to a net increase in the number of benefit recipients plus post-retirement adjustments provided to existing benefit recipients. Details of these changes can be found on pages 69 and 70 of the Actuarial Section of this report. Refunds increased $\$ 5.0$ million over the prior year ( $32.13 \%$ ). Refunds represent a return of contributions held on account when a member leaves employment. This increase is due to current economic conditions that have led to layoffs and reduction of many governmental services. Administrative expenses were less due to a decrease in legal and professional services from the prior year.

## INVESTMENT ACTIVITIES

| $\square$ US Equity | $\square$ Non-U S Equity | $\square$ Fixed Income |
| :--- | :--- | :--- |
| $\square$ Credit Opportunities | $\square$ Private Equity | $\square$ Real Assets |
| $\square$ Real Estate | $\square$ GTAA | $\square$ Short Term Investments |



During FY 2007, the Board of Trustees adopted a more diversified asset allocation policy and began an asset management restructuring that has been deployed over the past three years. As illustration, at the end of FY07, $72.8 \%$ of the entire investment portfolio was invested in equities versus $41.2 \%$ at the end of FY10. Fixed income has remained about $19 \%$ of the entire portfolio. However, alternative investments have increased from $3.5 \%$ in FY07 to $39.8 \%$ in FY 10 .

At June 30, 2010, CORP held $\$ 454.5$ million in equities. The FY 2010 rate of return for Total CORP equities was $13.73 \%$ versus a benchmark rate of return of $13.66 \%$. At June 30, 2010, CORP held $\$ 210.4$ million in fixed income securities. The FY 2010 rate of return for CORP fixed income securities was $13.84 \%$ versus a benchmark rate of return of $9.50 \%$. The benchmarks for both equities and fixed income securities are representative of the returns that could be expected in a similar investing environment. More detailed information regarding the Plan's investment portfolio can be found in the investment section of this report.
CORP earns additional income by lending investment securities to brokers. This was done on a pooled basis by our custodial banks, BNY Mellon. The brokers provide collateral and generally use the borrowed securities to cover short trades and failed trades.

## HISTORICAL TRENDS



Accounting standards require that the "Statement of Plan Assets" reflect investment asset values at fair market value and include only benefits and refunds due to plan members and beneficiaries and accrued investment and administrative expenses as of the reporting date. Information regarding the actuarial funding status of the plan is provided in the "Schedule of Funding Progress." The asset value stated in the "Schedule of Funding Progress" is the actuarial value of assets as determined by calculating the ratio of the market value to book value of assets and the actuarial gains/losses smoothed over a seven year period. Actuarial valuations of the CORP assets and benefit obligations for the retirement plan are performed annually. The most recent actuarial valuation available is as of June $30,2010$.
At June 30,2010 , the total funded status of the CORP decreased to $80.3 \%$ from $82.6 \%$ at FYE 2009. This decrease in funded status is related primarily to seven year smoothing period with only $1 / 2$ of the investment gain from the FY 10 investment return being reflected in the calculation. The market value smoothing techniques used in this valuation of the Plan recognize both past and present investment gains and losses. A more detailed discussion of the funding status can be found in the Administrator's Letter of Transmittal in the Introductory Section of this report.

## REQUEST FOR INFORMATION

This report is designed to provide a general overview of the Corrections Officer Retirement Plan's finances. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to: Corrections Officer Retirement Plan, 3010 E. Camelback Road, Suite 200, Phoenix, AZ 85016.

STATEMENT OF PLAN NET ASSETS
JUNE 30, 2010 WITH COMPARATIVE TOTALS FOR 2009
JUNE 30, 2010
JUNE 30, 2009
ASSETS
Cash and Short-Term Investments
$\$ 12,494,835 \quad \$ 16,515,717$
RECEIVABLES

| Member Contributions | 1,800,020 | 1,869,727 |
| :---: | :---: | :---: |
| Employer Contributions | 1,816,092 | 1,946,819 |
| Interest and Dividends | 1,274,245 | 1,659,100 |
| Investment Sales | 14,041,201 | - |
| Other | 11,843 | 37,669 |
| Total Receivables | 18,943,401 | 5,513,315 |
| INVESTMENTS AT FAIR VALUE (NOTES 2 And 3) |  |  |
| U.S. Equity | 266,195,299 | 332,968,853 |
| Non U.S. Equity | 188,346,257 | 184,263,280 |
| GTAA | 76,359,082 | - |
| Fixed Income | 210,411,164 | 181,945,647 |
| Credit Opportunities | 106,705,613 | 72,544,612 |
| Private Equity | 87,361,965 | 34,446,746 |
| Real Assets | 47,817,466 | 39,514,858 |
| Real Estate | 109,251,743 | 96,561,824 |
| Total Investments | 1,092,448,589 | 942,245,820 |
| Securities Lending Collateral | 120,324,821 | 148,494,789 |
| CAPITAL ASSETS (NOTE 4) |  |  |
| Land | 86,588 | 86,590 |
| Building | 627,784 | 615,531 |
| Funiture, Fixtures \& Equipment | 153,015 | 143,131 |
| Total Capital Assets | 867,387 | 845,252 |
| Accumulated Depreciation | $(192,025)$ | $(150,734)$ |
| Net Capital Assets | 675,362 | 694,518 |
| TOTAL PLAN ASSETS | 1,244,887,008 | 1,113,464,157 |
| LIABILITIES |  |  |
| Accrued Accounts Payable | 1,813,876 | 1,915,885 |
| Investment Purchases Payable | 9,959,008 | 2,037,367 |
| Securities Lending Collateral | 120,324,821 | 148,494,789 |
| Total Plan Liabilities | 132,097,705 | 152,448,041 |
| NET ASSETS HELD IN TRUST FOR PENSION BENEFITS | 1,112,789,303 | \$961,016,116 |
| NET ASSET RESERVES |  |  |
| Refundable Members' Reserve | 345,295,534 | 323,648,713 |
| Employers' Reserve | 748,758,990 | 622,242,457 |
| Future Benefit Increase Reserve | 18,734,779 | 15,124,946 |
| Total Net Asset Reserves | \$1,112,789,303 | \$961,016,116 |

STATEMENT OF CHANGES IN PLAN NET ASSETS
FISCAL YEAR ENDING 2010 WITH COMPARATIVE TOTALS FOR 2009
2010
2009

| ADDITIONS |  |  |
| :---: | :---: | :---: |
| Contributions |  |  |
| Members' Contributions (NOTES 2,5) | \$ 54,480,961 | \$ 53,098,136 |
| Employers' Contributions (NOTES 2,5) | 52,064,974 | 53,807,249 |
| Members' Service Purchase | 733,281 | 429,497 |
| Total Contributions | 107,279,216 | 107,334,882 |
| Investment Income |  |  |
| From Investment Income |  |  |
| Net Appreciation (Depreciation) in Fair Value of Investments (NOTES 2,3) | 112,839,752 | $(246,296,350)$ |
| Interest | 5,894,277 | 13,715,476 |
| Dividends | 13,081,882 | 18,577,190 |
| Other Income | 913,857 | 5,845 |
| From Securities Lending Activities |  |  |
| Securities Lending Activities (NOTE 3) |  |  |
| Securities Lending Income | 594,459 | 2,686,311 |
| Borrower Rebates | 281,430 | $(614,220)$ |
| Agents Share of Income | $(133,197)$ | $(310,806)$ |
| Net Securities Lending Income | 742,692 | 1,761,286 |
| Total Investment Income (Loss) | 133,472,460 | $(212,236,553)$ |
| Less Investment Expense | $(4,205,270)$ | $(4,077,003)$ |
| Net Investment Income (Loss) | 129,267,190 | $(216,313,556)$ |
| Transfers Into System \& Service Purchases | 542,806 | 370,781 |
| Total Additions (Reductions) | 237,089,212 | $(108,607,893)$ |
| DEDUCTIONS |  |  |
| Pension Benefits (NOTE 2) | 63,377,270 | 55,243,433 |
| DROP Benefits (NOTE 2) | 662,404 | 245,457 |
| Refunds To Terminated Members (NOTE 2) | 19,774,873 | 14,879,341 |
| Administrative Expenses | 915,378 | 1,064,826 |
| Transfers Out of System | 586,100 | 530,780 |
| Total Deductions | 85,316,025 | 71,963,836 |
| NET INCREASE (DECREASE) | 151,773,187 | (180,571,729) |
| NET ASSETS HELD IN TRUST FOR PENSION BENEFITS |  |  |
| Beginning of Year, July 1 | 961,016,116 | 1,141,587,845 |
| End of Year, June 30 | \$1,112,789,303 | \$961,016,116 |

FINANCIAL SECTION

## CORP NOTES TO THE FINANCIAL STATEMENTS

## NOTE 1: PLAN DESCRIPTION

## ORGANIZATION

The Corrections Officer Retirement Plan (CORP), a pension trust fund of the State of Arizona, is a cost sharing multiple-employer public employee retirement plan established by Title 38, Chapter 5, Article 6 of the Arizona Revised Statutes, to provide benefits for prison and jail employees of certain state, county and local governments. The Board of Trustees (formerly Fund Manager) of the Public Safety Personnel Retirement System (PSPRS) and 26 local boards administer the CORP Plan.
Effective August 6, 1999, it became the Governor's responsibility to appoint all members of the Board of Trustees. Effective April 28, 2010, SB 1006 was passed that changed the name of the Fund Manager to Board of Trustees and expanded the size of the Board from five to seven members. SB 1006 also increased the term from three to five years. There will be a transitional period during which the terms of office may vary. The Board of Trustees is responsible for the investment of the Plan's assets, setting employer contribution rates in accordance with an actuarial study, adopting a budget, hiring personnel to administer the Plan, setting up records, setting up accounts for each member, paying benefits and the general protection and administration of the System. Substantial investment experience is required for the member of the Board that represents the state as an employer and the two public members of the Board.

Each eligible group participating in the Plan has a five-member local board. In general, each member serves a fixed four-year term. Each local board is responsible for determining eligibility for membership, service credits, eligibility for benefits, the timing of benefit payments, and the amount of benefits for its eligible group of employees. The various governing bodies pay all costs associated with the administration of the local boards.
The addition or deletion of eligible groups does not require the approval of the other participating employers. The Board of Trustees approves new eligible groups for participation. The CORP is reported as a component unit of the State of Arizona.

The Board of Trustees of the CORP is also responsible for the investment and general administration of two other statewide retirement plans-the Elected Officials' Retirement Plan and the Public Safety Personnel Retirement System. The investments and expenses of these plans were held and accounted for separately from those of the CORP until September 1, 2008. Arizona Revised Statutes Section $38-848$ was amended by Laws 2008, Ch. 286, § 22 to authorize the Board of Trustees to commingle the assets of the fund and the assets of all other plans entrusted to its management. Accordingly, the assets of these plans have been unitized but all receipts and earnings are credited and charges of payments are made to the appropriate employer, system or plan.

Since none of the plans have the authority to impose their will on any of the other plans, each plan is reported as its own stand-alone government.

At June 30, 2010 and 2009, the number of participating local government employer groups was:

| GROUP | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 0 9}$ |
| :--- | ---: | ---: |
| Counties | 14 | 14 |
| Cities | 1 | 1 |
| Dispatchers | 8 | 8 |
| State Agencies | 3 | 2 |
| Total Employers | $\mathbf{2 6}$ | $\mathbf{2 5}$ |

Any county or city in the State of Arizona may elect to have its eligible employees (generally, prison or jail personnel who have direct inmate contact) covered by CORP. At June 30, 2009 and 2008, statewide CORP membership consisted of::

|  | RETIREMENT PLAN |  | INSURANCE SUBSIDY |  |
| :--- | ---: | ---: | ---: | ---: |
| MEMBERSHIP TYPE | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 0 9}$ |
| Retirees | 2,908 | 2,591 | 1,588 | 1,372 |
| Terminated Vested | 1,601 | 1,476 | 0 | 0 |
| Current Vested | 8,167 | 6,775 | 0 | 0 |
| Current Non-Vested | 6,152 | 7,805 | 0 | 0 |
| Total Members | $\mathbf{1 8 , 8 2 8}$ | $\mathbf{1 8 , 6 4 7}$ | $\mathbf{1 , 5 8 8}$ | $\mathbf{1 , 3 7 2}$ |

CORP provides retirement benefits as well as death and disability benefits. Generally, all benefits vest after five years of credited service.
A summary of benefit and plan provisions follows:

## SUMMARY OF BENEFITS

PURPOSE (A.R.S. § 38-900.01b)
To provide a uniform, consistent and equitable statewide program for those eligible corrections officers as defined by the Plan.

## AVERAGE MONTHLY BENEFIT

An average of your highest 36 consecutive months of salary within the last 10 years (i.e., 120 months) of service. Salary includes base wages, shift and military differential pay, holiday and overtime pay that is paid a member for personal services rendered in a designated position to a participating employer on a regular monthly, semimonthly or biweekly payroll basis.

For the purposes of computing retirement benefits, "base salary" does not include any extra monies, including overtime pay, shift differential pay, holiday pay, fringe benefit pay (such as uniform allowance, cell phone or mileage reimbursement) and similar extra payments. A.R.S. §38-881 (7)(41).

BENEFIT INCREASE / COST OF LIVING ADJUSTMENT (COLA)
Contingent upon the excess investment earnings, effective July 1 of each year, eligible retired members or survivors may be entitled to a permanent benefit increase in their base benefit. To be eligible for the increase, the retired member or survivor must be either age 55 or older on July 1 of the current year and receiving benefits on or before July 31 of the previous year, or the retired member or survivor has been receiving benefits on or before July 31 of the previous two years. The maximum amount of the increase is $4 \%$ of the average normal benefit being received on the preceding June 30 . A.R.S. § 38-905.

CONTRIBUTIONS
All non-dispatchers (members) shall contribute $8.41 \%$ of salary to the Plan on a pre-tax basis by payroll deduction unless or until CORP is 100\% funded (if 100\% funded, all non-dispatchers shall contribute 7.96\%). A.R.S. § 38-891(I). All dispatchers (members) shall contribute $7.96 \%$ of salary. A.R.S. § $38-891$ (I).

Employers shall contribute a percent of salary determined by actuarial valuations to ensure proper funding for the Plan (but not less than $6 \%$ of the employee's salary). For any employer whose actual contribution rate is less than $6 \%$ for fiscal year 2007 and each year thereafter, that employer's contribution rate shall be at least $5 \%$ and not more than the employer's actual contribution rate. A.R.S. § 38-891(H and A).

## CREDITED SERVICE

Service in a designated position for which member contributions have been made to the Plan, or transferred to the Plan from another retirement system for public employees of this state. A.R.S. § 38-881(10). Members are eligible to receive credited service limited to 60 months if called to active duty while working for the current employer. A.R.S. §38-907.

DEATH BENEFITS - ACTIVE MEMBER
Spouse's Pension. The surviving spouse of an active member will receive a monthly benefit for lifetime which is $40 \%$ of the member's average monthly salary. If the member was killed in the line of duty, the spouse will receive $100 \%$ of the member's average monthly benefit compensation. A.R.S. § $38-888,0$ R

Guardian Benefit. If there is no surviving spouse and there is at least one eligible child, a guardian benefit of $40 \%$ of the member's average monthly salary will be paid to the guardian of the eligible child(ren) until the child turns 18 , or until the age of 23 if the attending full-time school between the ages of 18 and 23 . If a guardian benefit is paid to a disabled child (the child's disability occurred prior to the age of 23) and remains a dependent of the guardian, the benefit is payable for the lifetime of the child. A.R.S. § $38-904(\mathrm{~B}), \mathrm{OR}$

Balance of Contributions. If there is no surviving spouse or eligible child(ren), the member's named beneficiary on file will receive two times the member's contributions. A.R.S. §38-904.

DEATH BENEFITS - INACTIVE MEMBER
Balance of Contributions. If the member was inactive, the member's named beneficiary on file will receive two times the member's contributions. A.R.S. §§ 38-881(27) and 38-904.

## DEATH BENEFITS - RETIRED MEMBER

Spouse's Pension. The surviving spouse of a retired member will receive $80 \%$ of member's pension benefit for lifetime. Requires two consecutive years of marriage at time of death. A.R.S. §38-887, OR

Guardian Benefit. If there is no surviving spouse, or the pension of the surviving spouse is terminated, a guardian benefit ( $80 \%$ of member's pension) may be paid to the guardian of the surviving unmarried child(ren) until the child(ren) turns 18 , or until the age of 23 if attending full-time school between the ages of 18 and 23 . If a guardian benefit is paid to a disabled child (the child's disability occurred prior to the age of 23) and remains a dependent of the guardian, the benefit is payable for the lifetime of the child. A.R.S. $\S \S 38-881$ (18) and 38-904, OR

Balance of Contributions. If there is no surviving spouse or eligible child(ren), the member's named beneficiary on file will receive the balance of the member's accumulated contributions less the pension payments made to the member. If there is no beneficiary, the balance of the member's accumulated contributions will be paid to the legal representative of the last surviving individual who was being paid the benefit. A.R.S. § 38-889.

## DEFERRED ANNUITY

Members that have at least 10 years of credited service and terminate employment on or after 9/30/2009 may elect to receive a Deferred Annuity at the age of 62 . This annuity is a lifetime monthly payment that is actuarially equivalent to the member's accumulated contributions in the plan plus an equal amount paid by the employer. This annuity is not a retirement benefit and annuitants are not entitled to survivor benefits, benefit increases, or the group health insurance subsidy. A.R.S. § 38-911. Members that terminate prior to 9/30/2009 may only refund, or transfer his/her contributions to another retirement system. A.R.S. § 38-884.

FINANCIAL SECTION
ACCIDENTAL DISABILITY
A physical or mental condition which totally and permanently prevents an employee from performing a reasonable range of duties within the employee's department, that was incurred in the performance of the employee's duties, or was the result of either physical contact with inmates, or responding to a confrontational situation with inmates, or a job-related motor vehicle accident, and was not the result of a physical or mental condition that existed or occurred before the employee's date of membership in the Plan. A.R.S. §38-881(1).

Eligibility for an accidental disability will be determined by the Local Board upon an independent medical examination. The monthly benefit is $50 \%$ of the member's average monthly salary. (There is no credited service requirement.) The Local Board may require periodic medical re-evaluations until the member reaches age 62. Accidental disability terminates if the Local Board finds the retired member no longer meets the requirements for the disability benefit. A.R.S. §38-886.

## CATASTROPHIC DISABILITY

A physical or mental condition which totally and permanently prevents a member from engaging in any gainful employment, that is in the direct and proximate result of the member's performance of the employee's duties and is not the result of a physical or mental condition or injury that existed or occurred before the member's date of membership in the Plan. A.R.S. §38-881(44).

Eligibility for a total and permanent disability will be determined by the Local Board upon an independent medical examination. The monthly benefit is $50 \%$ of the member's average monthly salary. (There is no credited service requirement.) The Local Board may require periodic medical re-evaluations until the member reaches age 62. The total and permanent disability terminates if the Local Board finds the retired member no longer meets the requirements for the disability benefit. A.R.S. § 38-886.

ORDINARY DISABILITY
A physical condition which totally and permanently prevents an employee from performing a reasonable range of duties within the employee's department, or a mental condition that totally and permanently prevents the employee from engaging in any substantial gainful activity, and was not the result of a condition that existed or occurred before the employee's date of membership in the Plan. Dispatchers disabled on/after September 21, 2006 and non dispatchers disabled on/after September 26, 2008 may qualify for an ordinary disability. A.R.S. §§ 38-881(30) and 38-886.01.

Eligibility for an ordinary disability will be determined by the Local Board upon an independent medical examination. The benefit is a percentage of normal retirement and is based on the employee's years of credited service divided by 20 (dispatchers are divided by 25 ). The Local Board may require periodic medical re-evaluations until the member reaches age 62 . Ordinary disability terminates if the Local Board finds the retired member no longer meets the requirements for the disability benefit. A.R.S. §38-886.01.

## REVERSE DEFERRED RETIREMENT OPTION PLAN (REVERSE DROP)

Beginning July 1, 2006, through June 30, 2016, the CORP shall offer the Reverse Deferred Retirement Option Plan (Reverse DROP) to members that are eligible for a normal pension (who is not awarded an accidental, ordinary or total and permanent disability pension) and have at least 24 or more years of credited service (dispatchers must have at least 25 years) may elect to participate in the Reverse DROP. Under the Reverse DROP, the member must voluntarily and irrevocably elect to terminate employment and receive a normal retirement upon participation in the Reverse DROP. The Reverse DROP date that is the first day of the month immediately following completion of 24 years of credited service (for dispatchers, 25 years of credited service) or a date not more than 60 consecutive months before the date the member elects to participate in the Reverse DROP, whichever is later.

The member's pension will be calculated using the factors of credited service and average monthly benefit compensation in effect on the Reverse DROP Date. The lump sum distribution is credited as though it accrued monthly from the Reverse DROP date to the date the member elected to participate in the Reverse DROP (plus interest equal to the yield on a 5 -year Treasury note as of the first day of the month as published by the Federal Reserve Board).

Neither the member nor the employer is entitled to a refund of contributions made between the Reverse DROP date and the date the member elects to participate in the Reverse DROP. A.R.S. § 38-885.01.

ELIGIBILITY
Designated positions for the following employers that elect to join the Plan are eligible to participate in the CORP if the employee's customary employment is for at least 40 hours per week, or as defined by statute. A.R.S. § 38-881(12):

- For a County: A county detention officer and non-uniformed employee's of a sheriff's department whose primary duties require direct inmate contact.
- For the State Department of Corrections and the Department of Juvenile Correction: Specific positions are eligible to participate. Refer to the statute for specific positions.
- For a City or Town, a City or Town Detention Officer.
- For an employer of an eligible group as defined in A.R.S. § 38-842, full-time dispatchers.
- For the judiciary, probation, surveillance, and juvenile detention officers and those positions designated by the Local Board.
- For the Department of Public Safety, state detention officers.

Dispatchers hired after November 24, 2009 must participate in the Arizona State Retirement System. A.R.S. § 38-902(C).

HEALTH INSURANCE
For CORP retirees, survivors and their eligible dependents that elect group health insurance and/or accident insurance coverage administered by CORP or another state recognized employer plan, the CORP will pay up to the following amount. A.R.S. §§ 38-906, 38-651.01 and 38-782.

| SINGLE |  | FAMILY |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Not Medicare Eligible | Medicare Eligible | All Not Medicare Eligible | All Medicare Eligible | One With Medicare |
| $\$ 150.00$ | $\$ 100.00$ | $\$ 260.00$ | $\$ 170.00$ | $\$ 215.00$ |

## JOINDERS

Specific positions and employers may participate in the CORP if the governing body of the employer enters into a joinder agreement to bring such employees into the CORP. The joinder agreement shall be in accordance with the provisions of this Plan. The transfer of the Arizona defined benefit state retirement system or plan shall be transferred within ninety days after the employer's effective date. A.R.S. § 38-902.

## REFUNDS

Pursuant to A.R.S. § 38-884, upon termination of employment (for any reason other than death or retirement) within 20 days after filing an application with the CORP, a member shall receive a lump-sum payment of accumulated contributions (less any benefits paid or any amounts owed to the Plan). The member forfeits all membership rights and credited service in the Plan upon receipt of refund of contributions. If the member has five or more years of credited service, an additional percentage of contributions will be refunded to the member according to the member's years of service as stated below:

5 to 5.9 years of service $=25 \%$ of additional member contributions.
6 to 6.9 years of service $=40 \%$ of additional member contributions.
7 to 7.9 years of service $=55 \%$ of additional member contributions.
8 to 8.9 years of service $=70 \%$ of additional member contributions.
9 to 9.9 years of service $=85 \%$ of additional member contributions.
10 or more years of service $=100 \%$ of member contributions plus $3 \%$ interest if left on deposit after 30 days.

## REQUEST TO REMAIN IN CORP

The local board of the state department of corrections, or the department of juvenile corrections may specify a position within that department as a designated position if the position is filled by an employee has at least five years of credited service under the Plan, is transferred to temporarily fill the position, provides a written request to the local board (within ninety days of being transferred) to specify the position as a designated position. When the employee leaves the position, the position is no longer a designated position. A.R.S. § $38-891$ (E). Form C20.
The local board of the judiciary may specify positions within the Administrative Office of the Courts (AOC) that require direct contact with and primarily provide training or technical expertise to county probation, surveillance or juvenile detention officers as a designated position if the position is filled by an employee who is a member of the plan currently employed in a designated position as a probation, surveillance or juvenile detention officer that has at least five years of credited service under the Plan. An employee who fills such a position shall make a written request to the local board to specify the position as a designated position within ninety days of accepting the position. When the employee leaves the position, the position reverts to a non-designated position. A.R.S. §38-891(G).

## RETIREMENT ELIGIBILITY AND CALCULATION

Pursuant to A.R.S. § 38-885, retirement benefits are calculated as follows:

- 20 years of credited service but less than 25 years of credited service (not available to dispatchers), or 80 points (age plus service) if membership date is on/after 8/9/01: $2 \%$ for each year of credited service over 20 years
- 25 or more years of credited service, or 80 points if membership date is on/after $8 / 9 / 01$ : $2.5 \%$ for each year of credited service over 20 years (with a maximum of 12 years)
- Less than 20 years of credited service and 80 points if membership date is on/after 8/9/01: credited service multiplied by $2.5 \%$
- 80 points and membership date is PRIOR to $8 / 9 / 01$ : credited service multiplied by $2.5 \%$ (maximum of $75 \%$ of the average monthly compensation/salary)
- Age 62 with 10 years of service: credited service multiplied by $2.5 \%$.

RETURN TO WORK AFTER RETIREMENT
A retired member may become re-employed and continue to receive a pension if the employment occurs 12 months or more after retirement effective date December 31,2008 . The retired member shall not contribute to the fund and shall not accrue credited service. A.R.S. § $38-884$ (J) and HB 2326, Sec. 15(A).

If a retired member becomes employed by an employer in a designated position before twelve months after retirement, the retired member's pension shall be suspended during reemployment in a designated position and the retired member shall not make contributions to the Plan nor accrue credited service during such reemployment. A.R.S. §38-884(J).

Retired CORP members that returned to work, entitled to continue to receive a pension from the plan pursuant to Laws 2006, Chapter 241, section 1 and who is employed by an employer of the CORP as of 9/30/2009 is entitled to again begin receiving the retired member's pension from the plan effective 9/30/2009. (HB 2326, Section 12, Previous return to work retirees).

SALARY
Salary is defined as the base salary/wages, shift differential pay, military differential and holiday pay paid to an employee for personal services rendered in a designated position to a participating employer on a regular monthly, semimonthly or biweekly payroll basis.
For the purposes of the paragraph above, "base salary/wages" means the amount of compensation each member is regularly paid for personal services rendered before the addition of any extra monies, including overtime pay, shift differential, holiday pay, sale of compensatory time, fringe benefit pay and similar extra payments. A.R.S. §38-881(41).

## SERVICE PURCHASE

Purchase of Prior Active Military Service. Members may purchase up to 48 months of credited service for periods of active military service performed before employment with their current employer (even if the member receives a military pension). A.R.S. § 38-907.

Purchase of Prior Service from an Out-of-State Agency. Active members that have previous service with an agency of the U.S. Government, a state of the U.S., or a political subdivision of a state of the U.S. as a full-time paid corrections officer, or full-time paid certified peace officer may elect to redeem any part of the prior service if the prior service is not on account with any other retirement system. A.R.S. §38-909.

Purchase of Prior Forfeited Service within the SAME Retirement Plan. If a former member becomes RE-EMPLOYED with the SAME EMPLOYER and, within two years after the former member's termination date and applies with the Plan (within ninety days of reemployment), may elect to purchase all of the previously forfeited credited service. The amount required to reinstate the credited service is the amount previously withdrawn plus interest at the rate of $9 \%$ compounded annually from the date of withdrawal to the date of repayment and the reimbursement is required to be paid within 1 -year from the date of reemployment. A.R.S. § $38-884(\mathrm{H})$.

If the statutory requirements above are not met, the member may still purchase some or all of the previously forfeited credited service calculated based on an amount computed by the Plan's actuary to equal the actuarial present value of the account. A.R.S. § $\$ 8$-884(I).

Purchase of Service Between the Arizona Retirement Plans/Systems. Members of any of the four Arizona state retirement System/Plans that have credited service under another Arizona state retirement System/Plan may redeem the credited service to their current Arizona state retirement System/Plan by paying the full actuarial present value of the credited service into the current Arizona retirement System/Plan with the approval of the CORP or governing board. A.R.S. § 38-922.

## TAXATION OF RETIREMENT BENEFITS

All CORP retirement benefits in excess of $\$ 2,500$ annually will be subject to Arizona state tax. A.R.S. §§ 38-896, and 43-1022.

## TRANSFERS

Transfer of Contributions Between CORP Employers. A member who terminates employment with an employer and accepts a position with the same or another employer participating in the Plan shall have their credited service transferred to their record with the new employer if they leave their accumulated contributions on deposit with the Plan. The period not employed shall not be considered as credited service. A.R.S. § 38-908.

Transfer of Service Between the Arizona Retirement Plans/Systems. Members of any of the four Arizona state retirement System/Plans that have credited service under another Arizona state retirement System/Plan may transfer the credited service to their current Arizona state retirement System/Plan by transferring the full actuarial present value of the credited service into the current Arizona retirement System/Plan with the approval of the CORP or governing board. A reduced credited service amount may be transferred based on the transfer of the actuarial present value of the credited service under the prior Arizona state System/Plan. A.R.S. §§ 38-921 and 38-922.

Transfer of Service Between Municipal Retirement Systems \& Special Retirement Plans. An active or inactive member of a retirement System or Plan of a municipality of this state (i.e., City of Phoenix and City of Tucson) or of the CORP may transfer the service to their current retirement System or Plan based on the member's accumulated contributions plus interest, or the member may elect a reduced service amount to be transferred based on the actuarial present value. A.R.S. §§ 38-923 and 38-924.

This is not an official version of the Arizona Revised Statutes. If there are any differences or discrepancies, the official version will prevail.

## NOTE 2: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND PLAN ASSET MATTERS

## BASIS OF ACCOUNTING

CORP financial statements are prepared using the accrual basis of accounting. Member and employer contributions are recognized when due, pursuant to formal commitments, as well as statutory or contractual requirements. Benefits are recognized when due and payable in accordance with the terms of the Plan. Refunds are due and payable by state law within 20 days of receipt of a written application for a refund. Refunds are recorded when paid.
Furniture, fixtures and equipment purchases costing $\$ 10,000$ or more, when acquired, are capitalized at cost. Improvements, which increase the useful life of the property, are also capitalized. Investment income net of administrative and investment expenses are allocated to each employer group based on the average relative fund size for each employer group for that year.

By state statute, the Plan is required to provide information in the financial statements used to calculate Net Effective Yield. Net Effective Yield includes only realized gains and losses. The Net Realized Gains (Losses) used in this calculation totaled $\$(322,346)$ for FYE 2010 and $\$(175,258,029)$ for FYE 2009. This calculation is independent of the calculation of the change in the fair value of investments and may include unrealized amounts from prior periods.

The Plan implemented Governmental Accounting Standards Board (GASB) Statement No. 53, Accounting and Financial Reporting for Derivative Instruments, for the year ended June 30, 2010. Statement No. 53 addresses the recognition, measurement, and disclosures regarding derivative instruments entered into by the Plan.

## ESTIMATES

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of net assets held in trust for pension benefits at June 30, 2010. Actual results could differ from those estimates.

## NOTE 3: CASH AND INVESTMENTS

## CASH

Custodial credit risk for deposits is the risk that in the event of a bank failure, the Plan's deposits may not be returned. The deposits are held in two financial institutions with a balance of up to $\$ 250,000$ (permanently guaranteed as of July 21,2010 ) insured by the Federal Deposit Insurance Corporation (FDIC). The Plan mitigates custodial credit risk for deposits by requiring the financial institution to pledge securities from an acceptable list in an amount at least equal to 102\% of the aggregate amount of the deposits on a daily basis.

In addition to the FDIC insurance coverage on the operating and money market accounts of CORP, Wells Fargo pledged the following securities to Public Safety Personnel Retirement System, CORP, and the Elected Officials' Retirement Plan on June 30, 2010, as collateral:

| Description | CPN | Maturity | Market Value |
| :--- | :---: | :---: | ---: |
| FED NATL MTG ASSN POOL \#257449 | 6.00 | $11 / 1 / 2038$ | $\$ 6,302,267$ |
| FED NATL MTG ASSN POOL \#885515 | 6.00 | $7 / 1 / 2036$ | $2,798,720$ |
| FED NATL MTG ASSN POOL \#911370 | 6.00 | $2 / 1 / 2037$ | $2,150,459$ |
| FED NATL MTG ASSN POOL \#930769 | 6.00 | $3 / 1 / 2039$ | $4,802,040$ |
| FED NATL MTG ASSN POOL \#950981 | 6.00 | $10 / 1 / 2037$ | $6,864,700$ |
| TOTAL |  |  | $\mathbf{\$ 2 2 , 9 1 8 , 1 8 6}$ |

All monies shall be secured by the depository in which they are deposited and held to the same extent and in the same manner as required by the general depository law of the state. Cash balances represent both operating and cash accounts held by the bank and investment cash on deposit with the investment custodian. All deposits are carried at cost plus accrued interest. The following table is a schedule of the aggregate book and bank balances of all cash accounts as of June 30, 2010:

|  | REPORTED AMOUNT | BANK BALANCE |
| :--- | ---: | ---: |
| Pension Trust Fund | $\$ 11,821,199$ | $\$ 11,821,199$ |
| Operating Fund | 673,636 | 673,636 |
| Total Deposits | $\mathbf{\$ 1 2 , 4 9 4 , 8 3 5}$ | $\mathbf{\$ 1 2 , 4 9 4 , 8 3 5}$ |

## INVESTMENTS

CORP investments are reported at Fair Value. Fair Values are determined as follows: Short-term investments are reported at cost which approximates fair value. Equity securities are valued at the last reported sales price. Fixed-income securities are valued using the last reported sales price or the estimated fair market value as determined by fixed-income broker/dealers. Directed real estate and venture capital investments are reported at fair value using appraisals to estimate the fair value. Appraisals will be performed every three years on a rolling schedule unless circumstances warrant otherwise. Investment income is recognized as earned.
Statutes enacted by the Arizona Legislature authorize the Board of Trustees to make investments in accordance with the "Prudent Man" rule. The Board of Trustees is not limited to so-called "Legal Investments for Trustees." In making every investment, the board shall exercise the judgment and care under the circumstances then prevailing which men of ordinary prudence, discretion and intelligence exercise in the management of their own affairs, not in regard to speculation but in regard to the permanent disposition of their funds, considering the probable income from their funds as well as the probable safety of their capital, provided:

1) That not more than eighty percent of the combined assets of the system or other plans that the board manages shall be invested at any given time in corporate stocks, based on cost value of such stocks irrespective of capital appreciation.
2) That not more than five percent of the combined assets of the system or other plans that the board manages shall be invested in corporate stock issued by any one corporation, other than corporate stock issued by corporations chartered by the United States Government or corporate stock issued by a bank or insurance company.
3) That not more than five percent of the voting stock of any one corporation shall be owned by the system and other plans that the board administers, except that this limitation does not apply to membership interests in limited liability companies.
4) That corporate stocks and exchange traded funds eligible for purchase shall be restricted to stocks and exchange traded funds that, except for bank stocks, insurance stocks and membership interests in limited liability companies, are either:
a) Listed or approved on issuance for listing on an exchange registered under the Securities Exchange Act of 1934, as amended (15 United States Code §78a through §78II).
b) Designated or approved on notice of issuance for designation on the national market system of a national securities association registered under the Securities Exchange Act of 1934, as amended (15 United States Code §78a through §78II).
c) Listed or approved on issuance for listing on an exchange registered under the laws of this [Arizona] state or any other state.
d) Listed or approved on issuance for listing on an exchange registered of a foreign country with which the United States is maintaining diplomatic relations at the time of purchase, except that no more than twenty percent of the combined assets of the system and other plans that the board manages shall be invested in foreign securities, based on the cost value of the stocks irrespective of capital appreciation.
e) An exchange traded fund that is recommended by the chief investment officer of the system, that is registered under the investment company act of 1940 (15 United States Code Section 80a-1 through 80a-64) and that is both traded on a public exchange and based on a publicly recognized index.
A.R.S. § $38-848$. B as amended in 2008 authorized the Board of Trustees to commingle the assets of all the plans entrusted to its management, subject to the crediting of receipts and earnings and charging of payments to the appropriate employer, system or plan. As a result, the various assets of the Public Safety Retirement System, Elected Officials' Retirement Plan, and the Corrections Officer Retirement Plan were unitized beginning September 1, 2008 into the PSPRS Trust. Investments for each fund are allocated daily via a constant dollar unitization methodology. Realized and unrealized gains are allocated monthly using the same methodology.
At June 30, 2010, the fair market value of the PSPRS Trust and the allocation for each system and plan was as follows:

| PLAN | UNITIZED | PERCENT |
| :--- | ---: | ---: |
| PSPRS | $\$ 4,553,738,626$ | $76.66 \%$ |
| CORP | $1,108,804,113$ | $18.67 \%$ |
| EORP | $277,865,254$ | $4.68 \%$ |
| TOTAL | $\mathbf{\$ 5 , 9 4 0 , 4 0 7 , 9 9 3}$ | $\mathbf{1 0 0 . 0 0 \%}$ |

A small portion of the assets (cash and real estate) remain outside the comingled funds, representing less than 2 basis points of the total.

## CUSTODIAL CREDIT RISK

Custodial Credit Risk is the risk that CORP will not be able (a) to recover deposits if the depository financial institution fails or (b) to recover the value of the investment or collateral securities that are in the possession of an outside party if the counterpart to the investment or deposit transaction fails. As of June 30, 2010, CORP has no fund or deposits that were not covered by depository insurance or collateralized with securities held by our banks' trust department or agent; nor does CORP have any investments that are not registered in the name of CORP or the PSPRS Trust and are either held by the counterpart or the counterpart's trust department or agent.

## CREDIT RISK

Credit Risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligation to the Plan. As of June 30,2010, the Plan's fixed income assets that were not government guaranteed represented $94.0 \%$ of the fixed income portfolio.

Each portfolio is managed in accordance with investment guidelines that are specific as to permissible credit quality ranges, exposure levels within individual quality tiers, and the average credit quality of the overall portfolios. According to those guidelines, the fixed income portfolio must have a minimum weighted average quality rating of $\mathrm{A} 3 / \mathrm{A}$-. Fixed income securities must have a minimum quality rating of $\mathrm{Ba} 3 / \mathrm{BBB}$ - at the time purchase. The portion of the bond portfolio in securities rated Baa3/BBB- through Baa1/BBB+ must be $20 \%$ or less of the fair value of the fixed income portfolio.

Included in the fixed income portfolio are cash equivalents or commercial paper. Commercial Paper must have a minimum quality rating of A-1/P-1 at the time of purchase. Investments in derivatives are limited to collateralized mortgage obligations (CMO), collateralized bond obligations (CBO), collateralized debt obligations (CDO), and asset-backed securities (ABS).

In preparing this report, collateral for securities lending has been excluded because it is invested in a securities lending collateral investment pool.

The following tables summarize the Plan's fixed income portfolio exposure levels and credit qualities.

## AVERAGE CREDIT QUALITY AND EXPOSURE LEVELS OF NON-GOVERNMENT GUARANTEED SECURITIES

| FIXED SECURITY TYPE | FAIR VALUE <br> JUNE 30, 2010 | \% OF ALL FIXED <br> INCOME ASSETS | WEIGHTED <br> AVG. CREDIT |
| :--- | ---: | ---: | :---: |
| Corporate Bonds | $\$ 187,671,532$ | $94.80 \%$ | AA |
| Mortgages | $2,085,899$ | $1.10 \%$ | Below BB |
| CB0 | $5,225,277$ | $2.60 \%$ | A |
| CD0 | $2,874,117$ | $1.50 \%$ | A |
| Total | $\$ \mathbf{1 9 7 , 8 5 6 , 8 2 5}$ | $\mathbf{1 0 0 . 0 0 \%}$ | AA |


| RATINGS DISPERSION DETAIL |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| CREDIT RATING LEVEL | CORPORATE BONDS | MORTGAGES | CBO | CDO |  |
| AAA | $\$$ | - | $\$ 128,812$ | $\$$ | - |
| AA | $173,943,320$ | - | - | - |  |
| A | $6,962,698$ | - | $4,341,943$ | $2,874,117$ |  |
| BBB | $6,484,872$ | - | - | - |  |
| Below BBB | 280,642 | $1,957,087$ | 883,334 | - |  |
| Total | $\mathbf{\$ 1 8 7 , 6 7 1 , 5 3 2}$ | $\mathbf{\$ 2 , 0 8 5 , 8 9 9}$ | $\mathbf{\$ 5 , 2 2 5 , 2 7 7}$ | $\mathbf{\$ 2 , 8 7 4 , 1 1 7}$ |  |

## CONCENTRATION OF CREDIT RISK

Concentration of credit risk is the risk of loss that may be attributed to the magnitude of a government's investment in a single issue. Other than bonds used as direct obligations of and fully guaranteed by the U.S. Government, not more than $5 \%$ of the Fund or its fixed income portfolio at fair value shall be invested in bonds issued by any one institution, agency or corporation.

## INTEREST RATE RISK

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. This risk is managed within the portfolio using segmented time distributions. It is widely used in the management of fixed income portfolios in that it quantifies the risk of interest rate changes. The Plan does invest in fixed income securities with floating rates that contain coupon adjustment mechanisms in a rising interest rate environment.

The following tables quantify, to the fullest extent possible, the interest rate risk of the Plan's fixed income assets.

SEGMENTED TIME DISTRIBUTION BY SECURITY TYPE
(INCLUDING GOVERNMENT GUARANTEED SECURITIES)

| FIXED INCOME SECURITY | <1 | 1-5 | 6-10 | 11-15 | 16-20 | $>20$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Corporate | \$- | \$939,306 | \$ 5,392,801 | \$ 2,162,590 | \$ 1,154,106 | \$ 180,108,628 |
| Agencies | - | - | 4,765,010 | 3,091,592 | 2,303,529 | 2,394,206 |
| CBO | - | - | 2,299,723 | - | - | 2,925,555 |
| CDO | - | - | - | - |  | 2,874,117 |
| Total | \$- | \$939,306 | \$12,457,534 | \$5,254,182 | \$3,457,635 | \$188,302,506 |

CALLABLE BONDS BY SECURITY TYPE
(INCLUDING GOVERNMENT GUARANTEED SECURITIES)

| FIXED INCOME <br> SECURITY TYPE | FAIR VALUE <br> JUNE 30, 2010 | \% OF ALL FIXED <br> INCOME ASSETS |
| :--- | ---: | ---: |
| Corporate | $\$ 1,957,476$ | $0.99 \%$ |
| Agencies | - | $0.00 \%$ |
| Total | $\$ 1,957,476$ | $\mathbf{0 . 9 9 \%}$ |

FINANCIAL SECTION

## FOREIGN CURRENCY RISK

Foreign currency risk is the risk that changes in the foreign exchange rate will adversely impact the fair value of an investment. The PSPRS is allowed to invest part of its assets in foreign investments. According to Arizona state statutes, no more than twenty per cent of the combined assets of the system and other plans that the Board of Trustees manages shall be invested in foreign securities.

The following table shows the System's exposure to foreign currency risk (U. S. dollars):

## FOREIGN CURRENCY RISK

| CURRENCY TYPE | HOLDINGS | FAIR VALUE |
| :--- | ---: | ---: |
| Australian Dollar | 10,795 | $\$ 9,118$ |
| British Pound Sterling | 26,827 | 40,136 |
| Canadian Dollar | 26,441 | 24,882 |
| Danish Krone | 22,250 | 3,659 |
| Euro Currency Unit | 15,401 | 18,864 |
| Hong Kong Dollar | 55,988 | 7,190 |
| Israeli Shekel | 55,337 | 14,257 |
| Japanese Yen | $15,225,592$ | 172,060 |
| New Zealand Dollar | 1,881 | 1,293 |
| Norwegian Krone | 48,233 | 7,417 |
| Singapore Dollar | 6,496 | 4,653 |
| Swedish Krona | 39,472 | 5,072 |
| Swiss Franc | 7,442 | 6,902 |
| Total Market Value |  | $\$ 315,503$ |

## DERIVATIVES

Derivative instruments are financial contracts whose values depend on the values of one or more underlying assets, reference rates, or financial indexes. They include futures contracts, options contracts, and forward foreign currency exchange. The Board of Trustees has adopted a derivative policy that specifically authorizes external investment managers to enter into certain derivative contracts based on an analysis that the use of such derivatives will have a positive impact on the Trust's ability to manage its underlying assets and liabilities. The PSPRS Trust investment program, indirectly through its external managers, holds investments in futures contracts. The external money managers enter into these certain derivative instruments primarily to enhance the performance and reduce the volatility of the PSPRS portfolio, to gain or hedge exposure to certain markets, and to manage interest rate risk. The external managers are required to follow certain controls, documentation and risk management procedures when employing these financial instruments.
The fair value exposure associated with these derivative instruments was recorded on the financial statements as a portion of the unrealized gains and losses related to U.S. Equity and Fixed Income. The total of unrealized losses for CORP was $\$ 3,214,803$ at June 30,2010 consisting of U.S. Equity (loss of $\$ 3,222,200$ ) and Fixed Income (gain of $\$ 7,397$ ). Interest risk associated with these investments are included in the tables on page 33.

## SECURITY LENDING PROGRAM

The Plan is party to a securities lending agreement with a bank. The bank, on behalf of the Plan, enters into agreements with brokers to loan securities and have the same securities returned at a later date. The loans are fully collateralized primarily by cash. Collateral is marked-to-market on a daily basis. Non-cash collateral can be sold only upon borrower default. The Plan requires collateral of at least $102 \%$ of the fair value of the loaned U.S. Government or corporate security. Securities on loan are carried at fair value.

As of June 30,2010 the fair value of securities on Ioan was $\$ 117,191,296$ and the collateral was $\$ 120,324,821$ for Corrections Officer Retirement Plan. The Plan receives a negotiated fee for its loan activities and is indemnified for broker default by the securities lending agent.

The Plan participates in a collateral investment pool. All security loans may be terminated on demand by either the lender or the borrower. All matched loans shall have matched collateral investments. The total cash collateral investments received for unmatched loans (any loan for which the cash collateral has not been invested for a specific maturity) will have a maximum effective duration of 233 days. And, at least $20 \%$ of total collateral investments shall be invested on an overnight basis. At June 30,2010 , the weighted average maturity was 36 days for all investments purchased with cash collateral from unmatched loans. The Plan has no credit risk because the amounts owed to the borrowers exceed the amounts the borrowers owe to the Plan.

Prior to the current fiscal year, under this program, the Plan has not experienced any defaults or losses on these loans. However, in November 2008 CORP was informed that due to recent market events one or more securities lending collateral vehicles that held assets had been impaired. This potential liability will be realized upon settlement of the recovery process or if there becomes a liquidity issue with the collateral pool. A liability of $\$ 2,037,367$ has been recorded as CORP's share.

|  |  | TOTAL AVAILABLE | \% OF AVAILABLE |
| :--- | ---: | ---: | ---: |
| ASSET CLASS | OUT ON LOAN | TO LOAN | TO LOAN |
| Equities | $\$ 110,197,609$ | $\$$ | $454,541,556$ |
| Agencies | - | $5,688,424$ | $24.24 \%$ |
| Treasuries | 979,644 | $6,865,914$ | $0.00 \%$ |
| Exchange Traded | $6,014,043$ | $633,103,537$ | $14.27 \%$ |
| Totals | $\mathbf{\$ 1 1 7 , 1 9 1 , 2 9 6}$ | $\mathbf{\$ 1 , 1 0 0 , 1 9 9 , 4 3 1}$ | $\mathbf{1 0 . 9 5 \%}$ |

## NOTE 4: CAPITAL ASSETS

These assets are stated at cost, and depreciable assets are depreciated using the straight-line method over the estimated life of the asset. Repairs and maintenance are charged to expense as incurred. Depreciation expense for June 30, 2010 was $\$ 41,291$.

The table below is a schedule of the capital asset account balances as of June 30, 2009, and June 30,2010, and changes to those account balances during the year ended June 30, 2010.

## SCHEDULE OF CAPITAL ASSET ACCOUNT BALANCES

|  | LAND | BUILDING AND IMPROVEMENTS | FURNITURE, FIXTURES AND EQUIPMENT | TOTAL CAPITAL ASSETS |
| :---: | :---: | :---: | :---: | :---: |
| CAPITAL ASSETS |  |  |  |  |
| Balance June 30, 2009 | \$ 86,588 | \$ 615,533 | \$ 143,131 | \$ 845,252 |
| Additions | - | 12,251 | 9,884 | 22,135 |
| Deletions | - | - | - | - |
| Balance June 30, 2010 | 86,588 | 627,784 | 153,015 | 867,387 |
| ACCUMULATED DEPRECIATION |  |  |  |  |
| Balance June 30, 2009 | - | $(73,116)$ | $(77,619)$ | $(150,734)$ |
| Additions | - | $(16,759)$ | $(24,532)$ | $(41,291)$ |
| Deletions | - | - | - | - |
| Balance June 30, 2010 | - | $(89,875)$ | $(102,150)$ | $(192,025)$ |
| Net Capital Assets | \$86,588 | \$537,909 | \$50,865 | \$675,362 |

## NOTE 5: CONTRIBUTIONS REQUIRED AND CONTRIBUTIONS MADE

The Retirement System's funding policy provides for periodic employer contributions at actuarially determined rates that, expressed as percentages of annual covered payroll, are designed to accumulate sufficient assets to pay benefits when due. The normal cost and actuarial accrued liability are determined using a projected unit credit actuarial funding method. Unfunded actuarial accrued liabilities and assets in excess of actuarial accrued liabilities are being amortized as a level percent of payroll over a twenty-six (26) year period. Beginning July 1, 2007, the minimum employer contribution rate was established at $6 \%$.

During the year ended June 30, 2010, contributions totaling $\$ 108,918,039$ ( $\$ 54,437,078$ employer $[\$ 49,258,634$ pension and $\$ 5,178,444$ health insurance subsidy contributions in excess of the benefits paid] and $\$ 54,480,961$ member) were made in accordance with contribution requirements determined by an actuarial valuation of the Plan as of June 30, 2008. The employer contributions consisted of approximately $\$ 44,334,603$ for normal cost $[\$ 41,683,733$ pension and $\$ 2,650,870$ health insurance subsidy] plus $\$ 10,102,475$ for amortization of the actuarial accrued liability in aggregate $[\$ 7,574,901$ pension and $\$ 2,527,574$ health insurance subsidy]. Employer contributions represented $7.49 \%$ of covered payroll [6.10\% for normal costs ( $5.67 \%$ pension and $.43 \%$ health insurance) and $1.39 \%$ for amortization of assets in excess of the actuarial accrued liability in aggregate ( $0.98 \%$ pension and $0.41 \%$ health insurance)]. Member contributions represented $7.96 \%$ (Dispatchers) and 8.41\% (Non-Dispatchers) of covered payroll and are attributable to normal costs.

## NOTE 6: OTHER BENEFITS

The PSPRS adopted a supplemental defined contribution plan for all contributing members of an eligible group. An eligible group is defined as the employees of the Board of Trustees, PSPRS, the CORP and the EORP. The employees of any of these eligible groups must make an election to participate within two years after the employee first meets the eligibility requirements to participate in the plan. The election to participate is irrevocable and continues for the remainder of the employee's employment with the employer. If an employee elects to participate, the employee must contribute at least $1 \%$ of the employee's gross compensation. The IRS maintains that the Employers designate the amounts contributed by each employee. All amounts contributed are subject to the discretion and control of the Employer. Employee contributions and earnings to the plan are immediately vested. Employer contributions, if any, are vested based on the following schedule:

$$
\begin{array}{lr}
\text { Less than one year of service } & 0 \% \\
\text { One year but less than two } & 20 \% \\
\text { Two years but less than three } & 40 \% \\
\text { Three years but less than four } & 60 \% \\
\text { Four years but less than five } & 80 \% \\
\text { Five years or more } & 100 \%
\end{array}
$$

PSPRS administers the supplemental defined contribution plan through Nationwide Retirement Solutions, Inc. All contributions are sent directly to the third party administrator from the participating employer groups.

## NOTE 7: HEALTH INSURANCE SUBSIDY- AGENCY FUND

The plan description, summary of significant accounting policies, investment policies and contributions required for the health insurance subsidy are the same as the retirement plan and can be found under Notes 1,2 and 5 . The health insurance premium subsidy provided by A.R.S. $\S 38-857$ consists of a fixed dollar amount set by statute and paid by the System on behalf of eligible retired members. The subsidized health benefits are provided and administered by the Arizona State Retirement System, Arizona Department of Administration or the participating employer of the retired member. According to Governmental Accounting Standards Board (GASB) Statement №. 43, the health insurance subsidy paid by the System represents other post employment benefits. The Plan does not administer a separate healthcare plan as defined under IRC $\$ 401(\mathrm{~h})$ or an equivalent arrangement. In addition, the Plan is not statutorily authorized to maintain a separate account for the health insurance subsidy assets and benefit payments. Therefore, in accordance with GASB No. 43, the healthcare subsidy is reported as an agency fund. All assets of the Plan are available to pay both pension benefits and health insurance subsidy. The pension benefits and health insurance subsidy are funded through employer contributions based on an annual actuarial valuation. Contributions are separately accounted for by employer but are not segregated by contribution type.

Contributions in excess of the health benefit subsidy payments are reported in the retirement plan. Therefore, no accumulated assets or liabilities to participating employers are reported in the agency fund. For FY ' 10 contributions collected for the health insurance subsidy amounted to $\$ 5,178,444$ and the health benefit subsidy payments were $\$ 2,372,104$. The excess contributions of $\$ 2,806,340$ were added to the retirement plan for reporting purposes. Effective FY '08, each participating employer is required by GASB Statement $N \mathrm{No} .45$ to disclose additional information with regard to funding policy, the employer's annual OPEB cost and contributions made, the funded status and funding progress of the employer's individual plan and actuarial methods and assumptions used.

## NOTE 8: PLAN TERMINATION

CORP and its related plans are administered in accordance with Arizona statutes. These statutes do provide for termination of the plans under A.R.S. 41-3016.18. The plans are scheduled to terminate on July 1, 2016.

## NOTE 9: CONTINGENCIES

Some of our real estate partners in the investments categorized as "other investments" have obtained third party financing, which is secured by real property. The Plan has entered into Capital Call Agreements with regards to these third party financing arrangements. The Capital Call Agreements, in the unlikely event of default, limit the Plan to the amount of the defaulted payment or the original terms of the investment approved by the Board of Trustees, whichever is less. In management's opinion, any loss realized due to current economic conditions will not have a material effect on the financial statements.

As stated in Note 3 - Cash and Investments (under the Security Lending Program heading), the Plan was notified of a situation involving one or more security lending collateral vehicles that held assets which have been impaired as a result of recent market events. An estimate of the unrealized loss is approximately 11.3 million dollars for all three plans and has been recorded as a liability. It is anticipated that a final resolution will be reached this next fiscal year.

## NOTE 10: FUNDING STATUS AND PROGRESS

The Plan's funded status (excluding health insurance subsidy) as of the most recent valuation data is as follows:
(IN THOUSANDS)

| ACTUARIAL | ACTUARIAL VALUE OF ASSETS | ACTUARIAL ACCRUED LIABILITY | UNFUNDED AAL(UAAL) | FUNDED RATIO | ANNUAL COVERED <br> PAYROLL | UAAL ASA \% OF COVERED PAYROLL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DATE | (A) | (B) | (B-A) | (A/B) | (C) | ( $(\mathrm{B}-\mathrm{A}) / \mathrm{C})$ |
| 06/30/10 | \$1,382,144 | \$1,648,733 | \$266,589 | 83.8\% | \$616,481 | 43.24\% |

The required schedule of funding progress immediately following the notes to the financial statements presents 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.

The actuarial methods and assumptions used for the pension benefits are as follows:

| Valuation Date: | June 30, 2010 |
| :--- | :--- |
| Actuarial Cost Method: | Projected Unit Credit |
| Amortization Method: | Level Percent of Payroll, Closed |
| Remaining Amortization Period: | 26 years closed for unfunded accrued actuarial liability, 20 years open for excess |
| Asset Valuation Method: | 7 -Year Smoothed Market Value |
| Investment Rate of Return: | $8.5 \%$ |
| Projected Salary Increases: | $5.50-8.50 \%$ which includes inflation at $5.50 \%$ |

Actuarial valuations involve estimates of the value of reported amounts and assumptions about the probability of events far into the future, and the actuarially determined amounts are subject to continual revision as actual results are compared to past expectations and new estimates are made about the future. Actuarial calculations reflect a long-term perspective. Consistent with this perspective, actuarial methods and assumptions used include techniques that are designed to reduce shortterm volatility in actuarial accrued liabilities and the actuarial value of assets. The actuarial calculations are based on the benefits provided under the terms of the Plan in effect at the time of each valuation. These benefits are described in Note 1 under "Summary of Benefits".

NOTE 11: REQUIRED SCHEDULES
The Schedule of Funding Progress and the Schedule of Employer Contributions are presented immediately following the notes to the financial statements.

## REQUIRED SUPPLEMENTARY INFORMATION



* Entry Age Normal Cost method through 6-30-05. Projected Unit Credit method from 6-30-06 to the present.
* Beginning 6-30-07, funded ratio calculation does not include AAL for the health insurance premium subsidy. If the AAL for the health insurance premium subsidy were included, the funded ratio would be 84.6\% for 2007, 86.8\% for 2008, 82.6\% for 2009, and 80.3\% for 2010.
* See Notes to the Schedules of Required Supplementary Information.


## SCHEDULE OF EMPLOYER CONTRIBUTIONS

 EMPLOYER CONTRIBUTIONS$\left.\begin{array}{crr}\begin{array}{c}\text { FISCAL } \\ \text { YEAR } \\ \text { ENDED } \\ \text { JUNE 30, }\end{array} & \begin{array}{r}\text { ANNUAL } \\ \text { REQUIRED }\end{array} & \begin{array}{r}\text { PERCENTAGE } \\ \text { CONTRIBUTIONS }\end{array} \\ \hline 2001 & \$ 14,927,396 & 100.00 \% \\ \text { CONTRIBUTED }\end{array}\right]$

* Total Employer Contributions received during FY'07 were \$24,622,693. GASB reporting requires discretely reporting the health insurance subsidy separately from the retirement plan. As a result, the annual required contributions for the health insurance subsidy were calculated to be $\$ 5,742,051$. The benefits paid for the health insurance subsidy were $\$ 1,913,186$. The difference between the calculated annual required contributions and the benefits paid of $\$ 3,828,865$ were then added back to the annual required contributions for the retirement plan. This required calculation resulted in a percent contributed of $120.0 \%$ for the retirement plan.
* Total Employer Contributions received during FY'08 were $\$ 150,729,218$. This included $\$ 104,797,048$ for a group transfer from Arizona State Retirement System to CORP. This amount was not used in the ARC calculation. GASB reporting requires discretely reporting the health insurance subsidy separately from the retirement plan. As a result, the annual required contributions for the health insurance subsidy were calculated to be $\$ 5,398,020$. The benefits paid for the health insurance subsidy were $\$ 2,073,245$. The difference between the calculated annual required contributions and the benefits paid of $\$ 3,324,775$ were then added back to the annual required contributions for the retirement plan. This required calculation resulted in a percent contributed of 108.0\% for the retirement plan.
*Total Employer Contributions received during FY'09 were $\$ 56,015,138$. GASB reporting requires discretely reporting the health insurance subsidy separately from the retirement plan. As a result, the annual required contributions for the health insurance subsidy were calculated to be $\$ 6,245,994$. The benefits paid for the health insurance subsidy were $\$ 2,207,889$. The difference between the calculated annual required contributions and the benefits paid of $\$ 4,038,105$ were then added back to the annual required contributions for the retirement plan. This required calculation resulted in a percent contributed of $108.1 \%$ for the retirement plan.
* Total Employer Contributions received during FY'10 were $\$ 54,437,078$. GASB reporting requires discretely reporting the health insurance subsidy separately from the retirement plan. As a result, the annual required contributions for the health insurance subsidy were calculated to be $\$ 5,178,444$. The benefits paid for the health insurance subsidy were $\$ 2,372,104$. The difference between the calculated annual required contributions and the benefits paid of $\$ 2,806,340$ were then added back to the annual required contributions for the retirement plan. This required calculation resulted in a percent contributed of 105.4\% for the retirement plan.
* See Notes to the Schedules of Required Supplementary Information.


## REQUIRED SUPPLEMENTARY INFORMATION

## NOTES TO THE REQUIRED SUPPLEMENTARY INFORMATION

## ACTUARIAL METHODS AND ASSUMPTIONS FOR VALUATIONS PERFORMED JUNE 30, 2010

The projected unit credit actuarial cost method of valuation is used in determining liabilities and normal cost. Differences in the past between assumed experience and actual experience (actuarial gains and losses) become part of actuarial accrued liabilities. Unfunded actuarial accrued liabilities are amortized to produce payments (principal and interest), which are expressed as a percent of payroll. An open 20-year amortization period for excess and a closed 26-year amortization period were used for the June 30,2010 valuations. The actuarial value of assets is based on a method that fully recognizes expected investment returns and averages unanticipated market return over a 7 -year period. The investment return rate assumption used is $8.5 \%$ per year, compounded annually (net of investment expenses). Projected salary increase assumptions are based on $5.5 \%$, which include a price inflation assumption of $5.5 \%$ per year.

Each of the 26 participating employer groups has its own actuarial study. Data presented here is an aggregation of the data from each individual plan study. The data should not be interpreted as being indicative of the status of any individual plan.

Actuarial valuations are prepared annually as of June 30 for each participating employer. To facilitate budgetary planning needs, employer contribution requirements are provided for each participating employer's fiscal year that commences after the following fiscal year end. For example, the contribution requirements for fiscal year 2010 were determined by actuarial valuations as of June $30,2008$.

## SCHEDULE OF CHANGES IN FUND BALANCE

FOR THE YEARS ENDED JUNE 30, 2010 AND 2009

|  | REFUNDABLE MEMBERS' RESERVE | EMPLOYERS' RESERVE | FUTURE BENEFIT INCREASE RESERVE |
| :---: | :---: | :---: | :---: |
| BALANCE AS OF JUNE 30, 2008 | \$296,317,101 | \$804,637,066 | \$40,633,678 |
| DISTRIBUTION OF REVENUES AND EXPENSES |  |  |  |
| Members' Contributions | 53,098,136 |  |  |
| Employers' Contributions |  | 56,015,138 |  |
| Earnings (Loss) on Investments Net of Investment Expenses |  | $(216,313,556)$ |  |
| Pension and Insurance Benefits |  | $(57,696,779)$ |  |
| Refunds to Terminated Members | $(10,965,953)$ | $(3,913,388)$ |  |
| Administrative Expenses |  | $(1,064,825)$ |  |
| DISTRIBUTION OF TRANSFERS |  |  |  |
| Excess Investment Earnings to be used for Future Benefit Increases |  |  |  |
| Earnings (Loss) on Excess Investment Earnings Account Assets |  | 7,311,624 | $(7,311,624)$ |
| Amount Utilized by Benefit Increases Granted |  | 18,197,108 | $(18,197,108)$ |
| Net Transfers In (Out) and Purchase of Service Credits | 491,927 | $(222,429)$ |  |
| Balances Transferred to Employers' Reserve due to Retirement | $(15,292,498)$ | 15,292,498 |  |
| BALANCE AS OF JUNE 30, 2009 | \$323,648,713 | \$622,242,457 | \$15,124,946 |
| DISTRIBUTION OF REVENUES AND EXPENSES |  |  |  |
| Members' Contributions | 54,480,961 |  |  |
| Employers' Contributions |  | 54,437,078 |  |
| Earnings (Loss) on Investments Net of Investment Expenses |  | 129,267,190 |  |
| Pension and Insurance Benefits |  | $(66,411,778)$ |  |
| Refunds to Terminated Members | $(14,091,546)$ | $(5,683,327)$ |  |
| Administrative Expenses |  | $(915,378)$ |  |
| DISTRIBUTION OF TRANSFERS |  |  |  |
| Excess Investment Earnings to be used for Future Benefit Increases |  | $(22,836,733)$ | 22,836,733 |
| Earnings (Loss) on Excess Investment Earnings Account Assets |  | $(2,037,330)$ | 2,037,330 |
| Amount Utilized by Benefit Increases Granted |  | 21,264,230 | $(21,264,230)$ |
| Net Transfers In (Out) and Purchase of Service Credits | 765,400 | $(75,402)$ |  |
| Balances Transferred to Employers' Reserve due to Retirement | $(19,507,994)$ | 19,507,983 |  |
| BALANCE AS OF JUNE 30, 2010 | \$345,295,534 | \$748,758,990 | \$18,734,779 |


|  | 2010 |  | 2009 |  |
| :---: | :---: | :---: | :---: | :---: |
| RECEIPTS |  |  |  |  |
| Members' Contributions | \$ | 54,550,666 | \$ | 53,006,253 |
| Employers' Contributions |  | 54,567,804 |  | 55,624,332 |
| Interest |  | 6,659,955 |  | 14,513,439 |
| Dividends |  | 12,701,058 |  | 20,135,000 |
| Other Income |  | 913,857 |  | 5,845 |
| Securities Lending Income |  | 742,692 |  | 1,761,286 |
| Transfer In |  | 542,806 |  | 370,781 |
| Service Purchase |  | 733,281 |  | 429,498 |
| Maturities and Sales of: |  |  |  |  |
| Short-Term Investment |  | - |  |  |
| U S Equity |  | 911,632,351 |  | 942,786,256 |
| Non-U s Equity |  | 468,109,282 |  | 333,742,306 |
| GTAA |  | 37,280,026 |  |  |
| Fixed Income |  | 71,892,654 |  | 589,887,819 |
| Credit Opportunities |  | 43,168,021 |  | 42,150,808 |
| Private Equity |  | 98,644,506 |  | 15,348,928 |
| Real Assets |  | 51,266,316 |  | 9,916,934 |
| Real Estate |  | 21,279,045 |  | 59,415,517 |
| Total Receipts |  | ,834,684,321 |  | 2,139,095,002 |
| DISBURSEMENTS |  |  |  |  |
| Pension Benefits |  | 65,749,374 |  | 57,451,322 |
| Refunds to Terminated Members |  | 19,774,873 |  | 14,879,342 |
| Drop Benefits |  | 662,404 |  | 245,457 |
| Investment and Administrative Expenses |  | 5,177,677 |  | 2,304,824 |
| Transfer Out |  | 586,089 |  | 530,781 |
| Acquisitions of: |  |  |  |  |
| Short-Term Investment |  | - |  |  |
| U S Equity |  | 805,543,343 |  | 863,499,453 |
| Non-U s Equity |  | 460,508,183 |  | 398,380,139 |
| GTAA |  | 111,879,442 |  | - |
| Fixed Income |  | 71,750,654 |  | 556,760,413 |
| Credit Opportunities |  | 53,951,570 |  | 92,429,643 |
| Private Equity |  | 138,237,744 |  | 42,126,859 |
| Real Assets |  | 57,570,900 |  | 42,786,016 |
| Real Estate |  | 47,312,951 |  | 109,501,491 |
| Total Disbursements |  | ,838,705,203 |  | 2,180,895,740 |
| INCREASE (DECREASE) IN CASH |  | $(4,020,882)$ |  | $(41,800,738)$ |
| BEGINNING CASH BALANCE - July 1 |  | 16,515,717 |  | 58,316,455 |
| ENDING CASH BALANCE - June 30 | \$ | 12,494,835 | \$ | 16,515,717 |


| EXPENSE CATEGORY | ADMINISTRATIVE | INVESTMENT | TOTAL |  |
| :--- | ---: | ---: | ---: | ---: |
| Accounting and Auditing Services | $\$ 21,838$ | $\$$ | - | $\$ 21,838$ |
| Actuarial Services | 50,456 | - | 50,456 |  |
| Building Expense | 40,836 | - | 40,836 |  |
| Communications | 3,274 | - | 3,274 |  |
| Computer Related Expense | 42,013 | 5,387 | 47,400 |  |
| Contractual Services | 23,458 | - | 23,458 |  |
| Depreciation Expense | 41,291 | - | 41,291 |  |
| Fund Manager Initiatives | 6,014 | - | 6,014 |  |
| Furniture and Equipment | 935 | - | 935 |  |
| Investment Services | - | $3,268,976$ | $3,268,976$ |  |
| Legal Services | 20,885 | 256,394 | 277,279 |  |
| Local Board Training | 13,580 | - | 13,580 |  |
| Payroll Taxes and Fringe Benefits | 191,105 | 83,602 | 274,708 |  |
| Postage Expenses | 22,503 | - | 22,503 |  |
| Printing and Publications | 13,899 | - | 13,899 |  |
| Professional Services | 29,237 | 395,096 | 424,333 |  |
| Salaries and Wages | 378,198 | 173,676 | 551,874 |  |
| Supplies and Services | 5,900 | - | 5,900 |  |
| Training Expenses | 8,021 | 8,994 | 17,015 |  |
| Travel Expense | 1,934 | 13,145 | 15,079 |  |
| TOTAL | $\$ 915,379$ | $\$ 4,205,270$ | $\$ 5,120,649$ |  |

## SCHEDULE OF CONSULTANT EXPENSES

FOR THE YEAR ENDED JUNE 30, 2010

| CONSULTANT | SERVICE PROVIDED | FEES PAID |
| :--- | :--- | ---: |
| Albourne America, LLC | International Alternative Investment Consultant | 123,120 |
| Alliance Resource Consulting, LLC | Executive Recruitment | 2,421 |
| BNY Mellon Asset Servicing | Independent Investment Advisor | 46,717 |
| Brazen Technology, Inc. | IT Consultant | 30,774 |
| CB Richard Ellis | Real Estate Consultant | 8,991 |
| Cortex Applied Research, Inc. | Governance Advisor | 3,155 |
| Cushman \& Wakefield | Real Estate Consultant | 9,720 |
| Gabriel Roeder Smith \& Company | Actuary | 47,750 |
| Heinfeld, Meech \& Co. | Independent Auditors | 21,838 |
| Highground, Inc. | Legislative Liaison | 21,870 |
| Kutak Rock LLP | General Counsel | 277,279 |
| Light Stone Solutions, LLC | Due Diligence | 68,490 |
| NEPC, LLC | Independent Investment Advisor | 112,995 |
| ORG Portfolio Management LLC | Real Estate Consultant | 88,088 |
| OSAM, Inc. | IT Consultant | 4,743 |
| Page, Gerald | IT Consultant | 8,077 |
| Public Policy Partners | Legislative Liaison | 29,167 |
| Rodwan Consulting Company | Actuary | 2,706 |
| Sherwood Systems | Accounting Consultant | 2,889 |
| Smout, Jared | Accounting Consultant | 7,290 |
| Stepstone Group LLC | Alternative Investment Consultant | 85,050 |
| TOTAL |  | $\$ 1,003,129$ |

OTHER SUPPLEMENTARY INFORMATION

## HEALTH INSURANCE PREMIUM SUBSIDY AGENCY FUND STATEMENT OF CHANGES IN ASSETS \& LIABILITIES

| HEALTH INSURANCE <br> PREMIUM SUBSIDY | BEGINNING <br> BALANCE | ADDITIONS | DELETIONS | ENDING <br> BALANCE |
| :--- | ---: | ---: | ---: | ---: |
| ASSETS | $\$ 0$ | $\$ 2,372,104$ | $\$ 2,372,104$ | $\$ 0$ |
| Cash | $\mathbf{0}$ | $\mathbf{2 , 3 7 2 , 1 0 4}$ | $\mathbf{2 , 3 7 2 , 1 0 4}$ | $\mathbf{0}$ |
| Total Assets | 0 | $2,372,104$ | $2,372,104$ | 0 |
| LIABILITIES <br> Benefits Payable | $\mathbf{\$ 0}$ | $\mathbf{\$ 2 , 3 7 2 , 1 0 4}$ | $\mathbf{\$ 2 , 3 7 2 , 1 0 4}$ | $\mathbf{\$ 0}$ |
| Total Liabilities |  |  |  |  |


| ACTUARIAL | ACTUARIAL VALUE OF ASSETS | ACTUARIAL ACCRUED LIABILITY | UNFUNDED AAL(UAAL) | $\begin{aligned} & \text { FUNDED } \\ & \text { RATIO } \end{aligned}$ | ANNUAL <br> COVERED <br> PAYROLL | UAAL AS A \% OF COVERED PAYROLL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DATE | (A) | (B) | (B-A) | (A/B) | (C) | ((B-A)/C) |
| 06/30/07 | 0 | \$48,990 | \$48,990 | 0.0\% | \$515,428 | 9.5\% |
| 06/30/08 | 0 | 53,701 | 53,701 | 0.0\% | 642,621 | 8.4\% |
| 06/30/09 | 0 | 68,731 | 68,731 | 0.0\% | 630,825 | 10.9\% |
| 06/30/10 | 0 | 73,272 | 73,272 | 0.0\% | 616,481 | 11.9\% |

* GASB reporting requires discreetly reporting the health insurance premium subsidy separately from the retirement plan. As a result, the funded ratio for the retirement plan does not include this portion for the health insurance premium subsidy. If you include the actuarial accrued liabilities for the health insurance premium subsidy with the retirement plan, the funded ratio for $2007,2008,2009$ and 2010 would be $84.6 \%, 86.8 \%, 82.6 \%$ and $80.3 \%$ respectively.
Chief Investment Officer's Letter ..... 46
Fund Investment Objectives ..... 48
Investment Performance
Asset Allocation ..... 48
Annualized Rates of Return, Benchmark and Indices ..... 49
Top 10 Investment Holdings ..... 50
Summary of Changes in Investment Portfolio ..... 50
Schedule of Commissions Paid to Brokers ..... 50
Equity Portfolio ..... 52
Fixed Income Portfolio ..... 53
Alternative Investments Portfolio
Credit Opportunities Portfolio ..... 58
Private Equity Portfolio ..... 59
Real Assets Portfolio ..... 60
Real Estate Portfolio ..... 61
GTAA Securities Portfolio ..... 61


Brian Tobin, Chairman
Lori Roediger, Vice Chairperson
Tim Dunne, Trustee
Gregory Ferguson, Trustee
Alan Maguire, Trustee
Jeff McHenry, Trustee
Randie Stein, Trustee

PUBLIC SAFETY PERSONNEL RETIREMENT SYSTEM
CORRECTIONS OFFICER RETIREMENT PLAN
ELECTED OFFICIALS' RETIREMENT PLAN
3010 East Camelback Road, Suite 200
Phoenix, Arizona 85016-4416
www.psprs.com
TELEPHONE: (602) 255-5575
FAX: (602) 255-5572


Administrator


Chief Investment Officer

Tracey D. Peterson
Assistant Administrator-C00

December 3, 2010

Members:

As the Chief Investment Officer of the Public Safety Personnel Retirement System (PSPRS) during the fiscal year beginning July 1, 2009 and ending June 30,2010 , I submit the following comments and observations for your consideration and for the consideration of the respective parties in interest of the System:

## HISTORY

Until recently the investment activities of PSPRS focused on internally managed domestic public securities (Stocks and Bonds), with some allocations to Arizona Real Estate. As with "baskets and eggs" this created concentrations of risks, particularly a concentration of risk in U.S. large Cap growth stocks. When U.S. domiciled equities did well, so did PSPRS. When U.S. equities performed poorly, so did PSPRS with a corresponding erosion in our funding ratios. While each of the System's Plans have slightly different liabilities and slightly different funding ratios, the trend in funding ratios has been down during the last several years. While it might be argued that going up high in good years offsets going down low in bad years, a simple illustration demonstrates the continuing problems with this volatility.

Assume that a fund begins a year with $\$ 100.00$ and in that year suffers a $20 \%$ loss, ending with a balance of $\$ 80.00$. In the next year assume that the markets recover and the fund increases in value $20 \%$. This new return brings the fund only back to $\$ 96.00$. Over this two year example the fund's net return is negative. In the case of retirement funds with demographics similar to ours, during this two year period the liabilities of the fund would continue to grow unabated and the funding ratio of the fund would decline.

Our historic performance with large concentrations in U.S. equities has been extremely volatile, reflecting major losses in asset value resulting from the "Dot Com" market decline early in the decade and the most recent economic and financial market calamities. This volatility over our last ten years demonstrates precisely the example cited above as follows:

| FY | Return \% | FY | Return\% |
| :---: | ---: | ---: | ---: |
| 2010 | 13.47 | 2005 | 9.23 |
| 2009 | -17.99 | 2004 | 14.77 |
| 2008 | -7.05 | 2003 | 6.15 |
| 2007 | 16.77 | 2002 | -14.73 |
| 2006 | 8.19 | 2001 | -17.07 |

This return distribution has six up years and four down years. The average return per year is about $+1.17 \%$ with an arithmetic return of $+11.74 \%$. But that return is deceiving. Because of the "Time Value of Money" and compounding effects, the PSPRS 10 year return is really $+0.28 \%$. Our liabilities compounded to an amount more than that, thus reducing our funding ratios. During this period PSRPS investment managers have consistently outperformed but that relative outperformance was outpaced by the portfolio volatility driven by extreme reliance on Domestic Equities. In the universe of public pension plans, manager outperformance cannot overcome asset allocation performance as asset allocation usually accounts for more than $85 \%$ of total fund performance.

## 2008 TO THE PRESENT

Recognizing these problems the PSPRS Administrator and the PSPRS Board began a program to broadly diversity the Fund's asset allocation and manger concentration. There was significant progress to this end in 2008-2009 which has continued through fiscal year 2009-2010. U.S. Equity exposure has been reduced from about $65 \%$ in 2007 to about $24 \%$ in 2010. Total equities have been reduced from about $73 \%$ of the portfolio in 2007 to about $41 \%$ in 2010 . Within equities, the Fund currently enjoys exposures to domestic equities, developed international equities and to emerging and to fromtier markets. Current asset allocation targets will reduce our total equity exposures to about $35 \%$ of the total portfolio with true global diversity.
The large historic equity exposures have been replaced with allocations to Credit Opportunities, Real Assets (Timber, Commodities, Infrastructure etc.) Global Tactical Asset Allocation (GTAA) Strategies, Private Equity, Real Estate and Absolute Return Strategies. The specific purpose of this diversification is to generate returns from multiple asset classes, multiple geographies and multiple strategies. This means that we will not "live or die" by one asset class, one geography and one strategy. Our financial eggs are distributed widely in different baskets, many of which go up when others go down or are largely uninfluenced by events which "spoil a basket" in another area.

In the Fiscal year 2008-2009 the effect of this diversification proved immediately valuable. While the fund was down more than $17 \%$ in that time frame, we would have been down much more if we had kept our traditional equity allocation. Many of our peers were down significantly more than 20\%.

In this fiscal year 2009-2010, equities had a strong recovery. We participated in that recovery and returned $13.47 \%$ for the total fund net of fees. However, consistent with our strategy, our participation was not solely dependent upon equities. For example, our credit opportunities portfolio of approximately one half of a billion dollars returned $33.85 \%$ in this time period. That return was generated in positions higher in the capital structure (including in many cases credit tranches that were AAA and AA rated) than equities, with significantly more downside protection than equities could have provided. In this situation, the System's Plans benefited from more return than equities would have given us and with less risk.

The Fund's fiduciary consultant NEPC, has recently confirmed the System's Investment Department's staff's assessment that our current asset allocation delivers a higher probability of reaching our assumed earnings rate of return of $8.25 \%$ with significantly less risk. In all likelihood we will continue to participate in most of the market's upside but also have significantly less participation in the market's downside.

## CONCLUSION

The continued diversification of the fund will enable the System's Plans to generate better risk adjusted returns than was the case with PSPRS' historic allocations and will help to protect funding ratios from the effects of exaggerated volatility. When combined with expected continued manager outperformance, this diversification should in the mid and long term, improve PSPRS funding ratios and enhance the stability of our System.

Respectfully Submitted,


Ryan Parham

## FUND INVESTMENT OBJECTIVES

The objective of the Fund is to ensure the integrity of the Elected Officials' Retirement Plan, Public Safety Personnel Retirement Plan and the Corrections Officer Retirement Plan in order to adequately fund benefit levels for members as stated in Title 38, Chapter 5, Articles 3,4 and 6 of the Arizona Revised Statutes and as amended from time to time by the Legislature. To achieve the objective, the Fund will do the following:

- Maintain a goal for the Fund's assets to be equal to the Fund's liabilities within a twenty year period.
- Annually adjust the employer contribution rates based on the recommendations made by the annual actuarial evaluations.
- Determine a reasonable contribution rate necessary to fund benefits approved by the legislature and then reduce the variation in the employer contribution rate over time to the Fund.
- Preserve and enhance the capital of the Fund through effective management of the portfolio in order to take advantage of attractive opportunities various markets and market sectors have to offer.
- Provide the opportunity for increased benefits for retirees as the legislature may from time to time enact through systematic growth of the investment fund.

Consistent with the Fund objectives, the primary investment objective of the Fund is to maximize long-term real (after inflation) investment returns recognizing established risk (volatility) parameters and the need to preserve capital by:

- Deriving a reasonable asset allocation model that attempts to fully achieve the primary investment objective, over the long term,
- Consistent with these objectives and the direction of the Board of Trustees, strategically allocating within asset classes and investment styles in order to enhance investment returns.
- Regularly reviewing the status of investments,
- Regularly assessing the need to adjust the mix, type and composition of the investment classes within the allocation ranges.

The possibility of short-term declines in the market value of the Fund or the Fund's assets is a recognized consequence of achieving potentially higher long-term investment returns.

The time horizon for evaluating total Fund investment performance shall be long-term.

## ASSET ALLOCATION

JUNE 30, 2010

| $\square$ US Equity | $\square$ Non-U S Equity | $\square$ Fixed Income |
| :--- | :--- | :--- |
| $\square$ Credit Opportunities | $\square$ Private Equity | $\square$ Real Assets |
| $\square$ Real Estate | $\square$ GTAA | $\square$ Short Term Investments |



## ANNUALIZED RATES OF RETURN*

JUNE 30, 2010

| Description | $\mathbf{1 Y e a r}$ | $\mathbf{3}$ Years | $\mathbf{5}$ Years | $\mathbf{1 0}$ Years |
| :--- | ---: | ---: | ---: | ---: |
| PSPRS - Total Fund | $13.47 \%$ | $-4.72 \%$ | $1.79 \%$ | $0.28 \%$ |
| Target Fund Benchmark | $12.10 \%$ | $-5.89 \%$ | $-0.13 \%$ | $1.43 \%$ |
| Total Equity | $13.73 \%$ | $-7.80 \%$ | $0.18 \%$ |  |
| Target Equity Benchmark | $13.66 \%$ | $-9.56 \%$ | $-0.73 \%$ |  |
| U.S. Equity | $16.95 \%$ | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |  |
| Russell 3000 | $15.72 \%$ | $-9.47 \%$ | $-0.48 \%$ |  |
| Non-U.S. Equity |  |  |  |  |
| MSCI ACWI Ex-US Net | $8.99 \%$ | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |  |
|  | $10.43 \%$ | $-10.70 \%$ | $3.38 \%$ |  |
| Fixed Income | $13.84 \%$ | $4.94 \%$ | $4.27 \%$ |  |
| BC Aggregate | $9.50 \%$ | $7.55 \%$ | $5.54 \%$ |  |
| Credit Opportunities | $33.85 \%$ | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |  |
| ML US High Yield BB-B Constrained | $21.65 \%$ | $5.60 \%$ | $6.11 \%$ |  |
| Private Equity | $26.68 \%$ | $-5.50 \%$ | $\mathrm{~N} / \mathrm{A}$ |  |
| Russell $3000+100$ bps | $16.72 \%$ | $-8.47 \%$ | $0.52 \%$ |  |
| Real Assets | $5.85 \%$ | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |  |
| CPI + 200 bps | $2.92 \%$ | $3.52 \%$ | $4.27 \%$ |  |
| Real Estate | $-12.63 \%$ | $-1.38 \%$ | $\mathrm{~N} / \mathrm{A}$ |  |
| NCREIF NPI | $-1.48 \%$ | $-4.71 \%$ | $3.78 \%$ |  |
| Short Term Investments | $0.28 \%$ | $1.86 \%$ | $3.08 \%$ |  |
| ML Treasury 91 day Actual | $0.16 \%$ | $1.57 \%$ | $2.76 \%$ |  |

*Time weighted rate of return based on the market rate of return (net of fees).

## Target Fund Benchmarks (Effective Dates)

April 1, 2009 - June 30, 2010: 30\% Russell 3000, 20\% MSCI World Ex-US Net, 20\% BC Aggregate, 8\% NCREIF NPI, 8\% Russell $3000+100$ bps, $8 \%$ ML US High Yield BB-
B Constrained, $5 \%$ CPI +200 bps and 1\% 91-Day T-Bill
July 1, 2007 - March 31, 2009: 46\% Wilshire 5000, 21\% MSCI World Ex-US Net, 20\% BC Gov/Cred, 6\% NCREIF NPI, 6\% Wilshire 5000 + 300 bps and 1\% 91-Day T-Bill July 1, 2006 - June 30, 2007: 50\% S\&P 500, 10\% S\&P 400, 5\% S\&P 600, 20\% BC Gov/Cred, 10\% Expected Annual Return for Real Estate of 8.00\% and 5\% 91-Day T-Bill July 1, 2002 - June 30, 2006: 45\% S\&P 500, 45\% BC Gov/Cred and 10\% 91-Day T-Bill

## Target Equity Benchmarks (Effective Dates)

April 1, 2009 - June 30, 2010: 60\% Russell 3000 and 40\% MSCI World Ex-US Net July 1, 2007 - March 31, 2009: 67.69\% Wilshire 5000 and 32.31\% MSCI World Ex-US Net July 1, 2006 - June 30, 2007: 76.92\% S\&P 500, 15.39\% S\&P 400 and 7.69\% S\&P 600 July 1, 2002 - June 30, 2006: 100\% S\&P 500

EQUITY PORTFOLIO TOP 10 HOLDINGS
JUNE 30, 2010

| Description | Shares | Fair Value |
| :--- | ---: | ---: |
| VANGUARD INSTL INDEX FD TOTAL | $1,944,402$ | $\$ 44,974,018$ |
| CRESTLINE CS 3000 FUND L.P. | $24,788,489$ | $24,788,489$ |
| ISHARES MSCI EMERGING MARKETS | 606,050 | $22,617,769$ |
| FRONTPOINT MULTI-STRATEGY FUND | $18,233,003$ | $18,233,003$ |
| VANGUARD INTL EQUITY INDEX FD | 461,230 | $17,701,989$ |
| GAM TRADING STRATEGY | $13,999,090$ | $13,999,090$ |
| VANGUARD EMERGING MARKETS ETF | 290,585 | $11,039,321$ |
| VANGUARD STAR FD DEVELOPED MKT | 989,055 | $8,090,472$ |
| BGI FRONTIER MARKETS FUND | $1,263,345$ | $7,042,880$ |
| ETF VANGUARD PACIFIC ETF | 119,846 | $5,699,859$ |

JUNE 30, 2010

| Description | Shares | Fair Value |
| :--- | ---: | ---: |
| BGI CORE ACTIVE BOND FUND | $6,768,673$ | $\$ 139,121,474$ |
| VANGUARD BD INDEX FD INC TOTAL | 399,095 | $32,478,323$ |
| SECURITY MUT LIFE INS CO 144A | $2,799,818$ | $2,923,492$ |
| US TREASURY NOTE | $2,426,509$ | $2,539,487$ |
| CBO HLDGS III 04-3 CL A 144A | $2,311,772$ | $2,299,723$ |
| PREFERRED CPO A / B 144A | $1,995,617$ | $2,221,219$ |
| CBO HLDGS III 1A 04-1 C-2 144A | $1,954,636$ | $2,042,220$ |
| U S TREASURY NOTE | $1,866,545$ | $1,873,694$ |
| SPDR BARCLAYS CAPITAL INTL | 31,154 | $1,674,535$ |
| US TREASURY NOTE | $1,493,236$ | $1,499,777$ |

## SUMMARY OF CHANGES IN INVESTMENT PORTFOLIO

JUNE 30, 2010
(IN THOUSANDS)

JUNE 30, 2009 BALANCE

| DESCRIPTION | PERCENT AT FAIR VALUE | $\begin{gathered} \text { FAIR } \\ \text { VALUE } \end{gathered}$ | $\begin{aligned} & \text { BOOK } \\ & \text { VALUE } \end{aligned}$ | ACQUIRED | MATURED AND SOLD | $\begin{gathered} \text { FAIR } \\ \text { VALUE } \end{gathered}$ | $\begin{aligned} & \text { BOOK } \\ & \text { VALUE } \end{aligned}$ | PERCENT AT FAIR VALUE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U. S. Equity | 35.34\% | \$ 332,969 | \$ 399,610 | \$ 804,943 | \$ 938,107 | \$ 266,195 | \$ 266,446 | 24.83\% |
| Non U. S. Equity | 19.56\% | 184,263 | 176,902 | 460,681 | 447,584 | 188,346 | 189,999 | 17.70\% |
| GTAA | 0.00\% | - | - | 111,880 | 37,218 | 76,359 | 74,662 | 6.96\% |
| Fixed Income | 19.31\% | 181,946 | 194,321 | 78,917 | 79,235 | 210,411 | 194,003 | 18.08\% |
| Credit Opportunities | 7.70\% | 72,545 | 78,751 | 53,951 | 36,198 | 106,706 | 96,504 | 8.99\% |
| Private Equity | 3.66\% | 34,447 | 40,635 | 138,237 | 93,462 | 87,362 | 85,410 | 7.96\% |
| Real Assets | 4.19\% | 39,515 | 38,669 | 57,671 | 49,978 | 47,817 | 46,362 | 4.32\% |
| Real Estate | 10.25\% | 96,562 | 108,114 | 47,312 | 35,652 | 109,252 | 119,774 | 11.16\% |
| Total Portfolio | 100.00\% | \$942,247 | \$1,037,002 | \$1,753,592 | \$1,717,434 | \$1,092,448 | \$1,073,160 | 100.00\% |

## SCHEDULE OF COMMISSIONS PAID TO BROKERS

YEAR ENDED JUNE 30, 2010

| BROKER | NUMBER OF <br> SHARES TRADED | AVERAGE <br> COMMISSION | TOTAL <br> COMMISSIONS |
| :--- | ---: | ---: | ---: |
| ABN AMRO BANK NV, LONDON | 235,952 | 0.0004 | $\$ 95$ |
| BARCLAYS CAPITAL LE, JERSEY CITY | 348,166 | 0.0016 | 570 |
| BLOOMBERG TRADEBOOK LLC, NEW YORK | $26,575,501$ | 0.0002 | 5,758 |
| BNY BROKERAGE, NEW YORK | 113,781 | 0.0009 | 101 |
| BROCKHOUSE AND COOPER, MONTREAL | 127,831 | 0.0004 | 53 |
| CIBC WORLD MKTS INC, TORONTO | 10,664 | 0.0003 | 3 |
| CITATION GROUP/BCC CLRG, NEW YORK | $1,701,157$ | 0.0006 | 975 |
| CITIGROUP GBL MKTS AUSTRALIA PTY, SYDNEY | 15,108 | 0.0005 | 8 |
| CITIGROUP GBL MKTS INC, NEW YORK | 148,773 | 0.0009 | 135 |
| CITIGROUP GBL MKTS SINGAPORE SEC PVT LTD | 38,625 | 0.0005 | 19 |
| CITIGROUP GBL MKTS/SALOMON, NEW YORK | 219,617 | 0.0005 | 107 |
| CITIGROUP GLOBAL MARKETS LTD, LONDON | $3,077,836$ | 0.0003 | 863 |


| BROKER | NUMBER OF SHARES TRADED | AVERAGE COMMISSION | TOTAL COMMISSIONS |
| :---: | :---: | :---: | :---: |
| CITIGROUP GLOBAL MARKETS U.K., LONDON | 1,488,838 | 0.0003 | \$ 410 |
| CREDIT SUISSE (EUROPE), LONDON | 781,567 | 0.0003 | 215 |
| (REDIT SUISSE, NEW YORK | 134,561 | 0.0004 | 50 |
| DEUTSCHE BK INTL EQ, LONDN | 127,635 | 0.0003 | 42 |
| DEUTSCHE BK SECS INC, NY | 91,510 | 0.0005 | 44 |
| GOLDMAN SACHS \& CO, NY | 313,519 | 0.0005 | 157 |
| GOLDMAN SACHS INTL, LONDON | 1,360,794 | 0.0003 | 472 |
| INSTINET AUSTRALIA CLEARING SERV, SYDNEY | 17,705 | 0.0005 | 9 |
| INSTINET EUROPE LIMITED, LONDON | 57,832 | 0.0004 | 23 |
| INVESTMENT TECHNOLOGY GROUP, NEW YORK | 2,119,353 | 0.0005 | 1,110 |
| ITG (EUROPE) LTD, DUBLIN | 455,786 | 0.0004 | 198 |
| ITG CANADA CORP, TORONTO | 405,879 | 0.0005 | 218 |
| ITG HONG KONG LIMITED, HONG KONG | 2,069,568 | 0.0004 | 832 |
| ITG/POSIT, NEW YORK | 19,820 | 0.0004 | 7 |
| JP MORGAN SEC, SYDNEY | 42,733 | 0.0005 | 21 |
| JP MORGAN SECS ASIA PACIFIC, HONG KONG | 85,049 | 0.0004 | 34 |
| KNIGHT SEC BROADCORT, JERSEY CITY | 1,307 | 0.0086 | 11 |
| MERRILL LYNCH INTL LONDON EQUITIES | 65,188 | 0.0003 | 23 |
| MERRILL LYNCH PIERCE FENNER SMITH INC NY | 115,658 | 0.0011 | 132 |
| MERRILL LYNCH PIERCE FENNER, WILMINGTON | 42,417 | 0.0009 | 37 |
| MORGAN STANLEY \& CO INC, NY | 706,798 | 0.0004 | 281 |
| NOMURA INTERNATIONAL LTD, HONG KONG | 2,582 | 0.0005 | 1 |
| NOMURA SECS INTL, LONDON | 73,574 | 0.0004 | 31 |
| PENSON FINANCIAL SERVICES INC, DALLAS | 113,639,159 | 0.0001 | 8,619 |
| RBC DOMINION SECS INC, TORONTO | 710,334 | 0.0004 | 314 |
| STATE STREET BANK ASSET MGMT DIV, BOSTON | 539,727 | 0.0002 | 114 |
| STATE STREET BK \& TR CO (SEC), LONDON | 7,357,627 | 0.0004 | 3,309 |
| STATE STREET GLOBAL MARKETS LLC, BOSTON | 154,059,057 | 0.0003 | 45,417 |
| UBS EQUITIES, LONDON | 66,572 | 0.0003 | 23 |
| UBS FINANCIAL SERVICES INC, WEEHAWKEN | 21,559,021 | 0.0001 | 2,594 |
| UBS WARBURG ASIA LTD, HONG KONG | 260,769 | 0.0005 | 130 |
| TOTAL COMMISSIONS | 341,384,946 | 0.0002 | \$73,566 |

U.S. EQUITY PORTFOLIO

YEAR ENDED JUNE 30, 2010

| SHARES | DESCRIPTION | COST | FAIR VALUE | UNREALIZED <br> GAIN (LOSS) |
| ---: | :--- | ---: | ---: | ---: |
| $6,531,098$ | RUSSELL 3000 SECURITIES | $\$ 166,452,286$ | $\$ 167,422,892$ | $\$ 970,606$ |
| 66 | RUSSELL 2000 MINI IND FUTURES | - | $(365,250)$ | $(365,250)$ |
| 41 | S\&P MID 400 EMINI FUTURES | - | $(273,692)$ | $(273,692)$ |
| 625 | S\&P 500 EMINI INDEX FUTURES | - | $(2,583,251)$ | $(2,583,251)$ |
| $24,788,489$ | CRESTLINE CS 3000 FUND L.P. | $24,825,054$ | $24,788,489$ | $(36,565)$ |
| $18,233,003$ | FRONTPOINT MULTI-STRATEGY FUND | $18,665,454$ | $18,233,003$ | $(432,451)$ |
| $13,999,090$ | GAM TRADING STRATEGY | $13,999,090$ | $13,999,090$ | - |
| $1,944,402$ | VANGUARD INSTL INDEX FD TOTAL | $42,503,760$ | $44,974,018$ | $2,470,258$ |
| $\mathbf{6 5 , 4 9 6 , 8 1 4}$ | TOTAL U.S. EQUITY PORTFOLIO | $\mathbf{\$ 2 6 6 , 4 4 5 , 6 4 4}$ | $\mathbf{\$ 2 6 6 , 1 9 5 , 2 9 9}$ | $\mathbf{\$ ( 2 5 0 , 3 4 5 )}$ |

NON-U.S. EQUITY PORTFOLIO
YEAR ENDED JUNE 30, 2010

| SHARES | DESCRIPTION | COST | FAIR VALUE | UNREALIZED <br> GAIN(LOSS) |
| ---: | :--- | ---: | ---: | ---: |
| $13,490,860$ | MSCI WORLD EX-US INDEX | $\$ 124,179,492$ | $\$ 114,389,970$ | $\$(9,789,522)$ |
| 989,055 | VANGUARD STAR FD DEVELOPED MKT | $9,610,794$ | $8,090,472$ | $(1,520,322)$ |
| 70,929 | ISHARES MSCI CDA INDEX FD | $1,874,277$ | $1,763,997$ | $(110,280)$ |
| 606,049 | ISHARES MSCI EMERGING MARKETS | $16,000,853$ | $22,617,769$ | $6,616,916$ |
| 461,230 | VANGUARD INTL EQUITY INDEX FD | $18,484,013$ | $17,701,989$ | $(782,024)$ |
| 290,585 | VANGUARD EMERGING MARKETS ETF | $7,924,112$ | $11,039,321$ | $3,115,209$ |
| 119,846 | ETF VANGUARD PACIFIC ETF | $6,325,204$ | $5,699,859$ | $(625,345)$ |
| $1,263,345$ | BGI FRONTIER MARKETS FUND | $5,600,004$ | $\mathbf{7 , 0 4 2 , 8 8 0}$ | $\mathbf{1 , 4 4 2 , 8 7 6}$ |
| $\mathbf{1 7 , 2 9 1 , 8 9 9}$ | TOTAL NON-U.S. EQUITY PORTFOLIO | $\mathbf{\$ 1 8 9 , 9 9 8 , 7 4 9}$ | $\mathbf{\$ 1 8 8 , 3 4 6 , 2 5 7}$ | $\mathbf{\$ ( 1 , 6 5 2 , 4 9 2 )}$ |

PAR VALUE DESCRIPTION
COUPON RATE

MATURITY
COST
FAIR VALUE

| U.S. GOVERNMENT SECURITIES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 531,200 | FHLMC POOL \#H1-0069 | 6.00\% | 11/01/2036 | \$531,790 | \$575,225 |
| 505,804 | FHLMC POOL \#H1-5010 | 6.00\% | 11/01/2036 | 506,367 | 547,725 |
| 10,365 | GNMA POOL \#0153415 | 9.00\% | 04/15/2016 | 10,810 | 11,474 |
| 2,763 | GNMA POOL \#0156462 | 9.00\% | 07/15/2016 | 2,885 | 3,059 |
| 6,068 | GNMA POOL \#0157733 | 9.00\% | 05/15/2016 | 6,333 | 6,718 |
| 4,447 | GNMA POOL \#0158992 | 9.00\% | 06/15/2016 | 4,592 | 4,922 |
| 5,197 | GNMA POOL \#0159801 | 9.00\% | 09/15/2019 | 5,497 | 5,939 |
| 3,222 | GNMA P00L \#0160350 | 9.00\% | 05/15/2016 | 3,334 | 3,567 |
| 11,022 | GNMA POOL \#0161684 | 9.00\% | 07/15/2016 | 11,516 | 12,201 |
| 9,640 | GNMA POOL \#0164501 | 9.00\% | 08/15/2016 | 10,067 | 10,672 |
| 18,935 | GNMA POOL \#0164681 | 9.00\% | 10/15/2016 | 19,791 | 20,961 |
| 7,205 | GNMA POOL \#0164924 | 9.00\% | 09/15/2016 | 7,512 | 7,976 |
| 8,022 | GNMA POOL \#0165172 | 9.00\% | 06/15/2016 | 8,370 | 8,881 |
| 3,814 | GNMA POOL \#0165863 | 9.00\% | 08/15/2016 | 3,984 | 4,222 |
| 6,857 | GNMA POOL \#0168283 | 9.00\% | 08/15/2016 | 7,164 | 7,591 |
| 2,363 | GNMA POOL \#0172800 | 9.00\% | 08/15/2016 | 2,467 | 2,616 |
| 5,397 | GNMA POOL \#0173847 | 9.00\% | 09/15/2016 | 5,625 | 5,974 |
| 8,328 | GNMA POOL \#0173878 | 9.00\% | 08/15/2016 | 8,683 | 9,219 |
| 3,641 | GNMA POOL \#0174829 | 9.00\% | 09/15/2016 | 3,794 | 4,031 |
| 10,513 | GNMA POOL \#0176431 | 9.00\% | 08/15/2016 | 10,985 | 11,637 |
| 4,134 | GNMA POOL \#0178234 | 9.00\% | 11/15/2016 | 4,326 | 4,576 |
| 2,514 | GNMA POOL \#0181945 | 9.00\% | 04/15/2020 | 2,664 | 2,884 |
| 421 | GNMA POOL \#0182127 | 9.00\% | 11/15/2016 | 440 | 466 |
| 2,731 | GNMA POOL \#0182491 | 9.00\% | 12/15/2016 | 2,857 | 3,023 |
| 1,269 | GNMA POOL \#0182914 | 9.00\% | 10/15/2016 | 1,323 | 1,405 |
| 7,187 | GNMA POOL \#0183553 | 9.00\% | 08/15/2017 | 7,536 | 8,013 |
| 4,410 | GNMA POOL \#0183715 | 9.00\% | 11/15/2016 | 4,615 | 4,882 |
| 27,112 | GNMA POOL \#0183733 | 9.00\% | 01/15/2017 | 28,392 | 30,228 |
| 1,340 | GNMA POOL \#0185639 | 9.00\% | 11/15/2016 | 1,396 | 1,483 |
| 8,329 | GNMA POOL \#0187705 | 9.00\% | 01/15/2017 | 8,709 | 9,286 |
| 9,730 | GNMA POOL \#0190921 | 9.00\% | 12/15/2016 | 10,172 | 10,770 |
| 6,136 | GNMA POOL \#0191648 | 9.00\% | 05/15/2017 | 6,433 | 6,841 |
| 4,112 | GNMA POOL \#0191943 | 9.00\% | 07/15/2018 | 4,328 | 4,685 |
| 8,570 | GNMA POOL \#0194468 | 9.00\% | 12/15/2016 | 8,954 | 9,487 |
| 564 | GNMA POOL \#0202505 | 9.00\% | 10/15/2019 | 587 | 582 |
| 7,077 | GNMA POOL \#0206683 | 9.00\% | 04/15/2020 | 7,493 | 8,119 |
| 6,680 | GNMA POOL \#0207671 | 9.00\% | 07/15/2018 | 7,033 | 7,611 |
| 1,015 | GNMA POOL \#0208705 | 9.00\% | 05/15/2020 | 1,072 | 1,142 |
| 7,498 | GNMA POOL \#0210798 | 9.00\% | 07/15/2018 | 7,894 | 8,543 |
| 5,477 | GNMA POOL \#0216520 | 9.00\% | 05/15/2017 | 5,741 | 6,106 |
| 2,748 | GNMA POOL \#0217956 | 10.00\% | 11/15/2017 | 2,931 | 3,087 |
| 9,911 | GNMA POOL \#0221509 | 9.00\% | 12/15/2016 | 10,344 | 10,971 |
| 9,219 | GNMA POOL \#0223282 | 9.00\% | 05/15/2018 | 9,708 | 10,505 |
| 3,184 | GNMA POOL \#0223307 | 9.00\% | 04/15/2018 | 3,352 | 3,628 |

PAR VALUE DESCRIPTION
U.S. GOVERNMENT SECURITIES

| 8,781 | GNMA POOL \#0226529 | 9.00\% | 06/15/2018 | \$ 9,242 | \$ 10,005 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2,703 | GNMA POOL \#0227210 | 9.00\% | 09/15/2017 | 2,834 | 3,014 |
| 2,641 | GNMA POOL \#0228184 | 9.00\% | 05/15/2018 | 2,782 | 3,010 |
| 3,556 | GNMA POOL \#0228233 | 9.00\% | 05/15/2018 | 3,724 | 4,052 |
| 6,860 | GNMA POOL \#0229731 | 9.00\% | 07/15/2017 | 7,195 | 7,649 |
| 5,879 | GNMA POOL \#0234450 | 9.00\% | 04/15/2018 | 6,181 | 6,698 |
| 281 | GNMA POOL \#0234695 | 10.00\% | 12/15/2017 | 301 | 315 |
| 5,283 | GNMA POOL \#0234937 | 9.00\% | 03/15/2018 | 5,561 | 6,020 |
| 3,814 | GNMA POOL \#0235280 | 9.00\% | 04/15/2018 | 4,016 | 4,346 |
| 7,349 | GNMA POOL \#0236041 | 10.00\% | 11/15/2017 | 7,794 | 8,235 |
| 3,796 | GNMA POOL \#0236835 | 10.00\% | 11/15/2017 | 4,026 | 4,263 |
| 607 | GNMA POOL \#0236939 | 9.00\% | 04/15/2018 | 639 | 691 |
| 16,954 | GNMA POOL \#0237138 | 10.00\% | 10/15/2017 | 18,212 | 19,042 |
| 2,447 | GNMA POOL \#0237195 | 9.00\% | 06/15/2018 | 2,564 | 2,713 |
| 595 | GNMA POOL \#0238133 | 9.00\% | 04/15/2018 | 623 | 661 |
| 5,842 | GNMA POOL \#0238600 | 10.00\% | 11/15/2017 | 6,187 | 6,561 |
| 2,785 | GNMA POOL \#0247506 | 9.00\% | 01/15/2020 | 2,947 | 3,194 |
| 1,675 | GNMA POOL \#0248951 | 9.00\% | 05/15/2018 | 1,764 | 1,909 |
| 18,001 | GNMA POOL \#0249621 | 9.00\% | 05/15/2018 | 18,946 | 20,510 |
| 2,813 | GNMA POOL \#0250933 | 9.00\% | 06/15/2018 | 2,963 | 3,205 |
| 6,482 | GNMA POOL \#0252052 | 9.00\% | 06/15/2018 | 6,743 | 7,385 |
| 17,502 | GNMA POOL \#0252055 | 9.00\% | 06/15/2018 | 18,437 | 19,941 |
| 1,408 | GNMA POOL \#0252306 | 9.00\% | 04/15/2018 | 1,480 | 1,605 |
| 1,861 | GNMA POOL \#0252538 | 9.00\% | 05/15/2018 | 1,957 | 2,120 |
| 1,840 | GNMA POOL \#0257869 | 9.00\% | 09/15/2019 | 1,946 | 2,102 |
| 736 | GNMA POOL \#0262845 | 9.00\% | 03/15/2020 | 780 | 845 |
| 11,656 | GNMA P00L \#0266545 | 9.00\% | 01/15/2019 | 12,291 | 13,318 |
| 11,334 | GNMA POOL \#0271090 | 9.00\% | 10/15/2019 | 11,977 | 12,951 |
| 4,133 | GNMA POOL \#0273548 | 9.00\% | 09/15/2019 | 4,373 | 4,723 |
| 8,367 | GNMA POOL \#0274140 | 9.00\% | 09/15/2019 | 8,846 | 9,561 |
| 2,102 | GNMA POOL \#0277907 | 9.00\% | 11/15/2019 | 2,224 | 2,401 |
| 3,228 | GNMA POOL \#0284420 | 9.00\% | 02/15/2020 | 3,417 | 3,703 |
| 2,658 | GNMA POOL \#0285593 | 9.00\% | 02/15/2020 | 2,816 | 3,050 |
| 8,482 | GNMA POOL \#0286371 | 9.00\% | 02/15/2020 | 8,963 | 9,626 |
| 339 | GNMA POOL \#0286427 | 9.00\% | 04/15/2020 | 346 | 388 |
| 4,506 | GNMA POOL \#0287851 | 9.00\% | 04/15/2020 | 4,776 | 5,169 |
| 4,315 | GNMA POOL \#0290000 | 9.00\% | 04/15/2020 | 4,567 | 4,950 |
| 3,765 | GNMA POOL \#0290057 | 9.00\% | 06/15/2020 | 3,992 | 4,319 |
| 3,603 | GNMA POOL \#0298952 | 9.00\% | 04/15/2021 | 3,823 | 4,153 |
| 1,519 | GNMA POOL \#0303324 | 9.00\% | 04/15/2021 | 1,610 | 1,751 |
| 1,296 | GNMA POOL \#0304625 | 9.00\% | 03/15/2021 | 1,375 | 1,494 |
| 3,380 | GNMA POOL \#0305187 | 9.00\% | 06/15/2021 | 3,590 | 3,895 |
| 5,390 | GNMA POOL \#0319521 | 8.00\% | 02/15/2022 | 5,702 | 6,215 |
| 7,666 | GNMA POOL \#0330725 | 8.00\% | 07/15/2022 | 8,127 | 8,839 |


| PAR VALUE | DESCRIPTION | COUPON RATE | MATURITY | COST | FAIR VALUE |
| :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. GOVERNMENT SECURITIES |  |  |  |  |  |
| 38,614 | GNMA POOL \#0337419 | 7.00\% | 06/15/2023 | \$ 40,493 | \$ 43,566 |
| 27,975 | GNMA POOL \#0345731 | 8.00\% | 05/15/2024 | 29,724 | 32,406 |
| 5,929 | GNMA POOL \#0352219 | 8.00\% | 04/15/2023 | 6,288 | 6,855 |
| 39,161 | GNMA POOL \#0352964 | 7.00\% | 05/15/2024 | 41,071 | 44,240 |
| 67,388 | GNMA POOL \#0366756 | 7.00\% | 03/15/2024 | 70,675 | 76,127 |
| 41,994 | GNMA POOL \#0371734 | 7.00\% | 04/15/2024 | 44,039 | 47,439 |
| 61,730 | GNMA POOL \#0375887 | 7.00\% | 05/15/2024 | 64,744 | 69,735 |
| 95,046 | GNMA POOL \#0377589 | 7.50\% | 08/15/2025 | 100,160 | 107,969 |
| 32,368 | GNMA POOL \#0386030 | 7.00\% | 05/15/2024 | 33,946 | 36,565 |
| 15,098 | GNMA POOL \#0386038 | 7.00\% | 06/15/2024 | 15,834 | 17,056 |
| 8,502 | GNMA POOL \#0390014 | 7.00\% | 06/15/2024 | 8,917 | 9,605 |
| 50,030 | GNMA POOL \#0391992 | 7.00\% | 03/15/2024 | 52,474 | 56,518 |
| 59,742 | GNMA POOL \#0398831 | 8.00\% | 08/15/2026 | 63,613 | 69,096 |
| 8,362 | GNMA POOL \#0402544 | 7.50\% | 04/15/2026 | 8,817 | 9,496 |
| 63,094 | GNMA POOL \#0403979 | 8.50\% | 10/15/2024 | 67,134 | 73,188 |
| 36,968 | GNMA POOL \#0405618 | 7.50\% | 04/15/2026 | 38,983 | 41,982 |
| 5,230 | GNMA POOL \#0406811 | 7.50\% | 01/15/2026 | 5,514 | 5,939 |
| 8,612 | GNMA POOL \#0417666 | 7.50\% | 08/15/2025 | 9,076 | 9,783 |
| 38,010 | GNMA POOL \#0421711 | 7.50\% | 04/15/2026 | 40,076 | 43,165 |
| 2,088 | GNMA POOL \#0427556 | 7.50\% | 03/15/2026 | 2,201 | 2,372 |
| 9,067 | GNMA POOL \#0427558 | 7.50\% | 04/15/2026 | 9,561 | 10,297 |
| 20,020 | GNMA POOL \#0429356 | 7.50\% | 03/15/2026 | 21,106 | 22,735 |
| 16,083 | GNMA POOL \#0430384 | 8.00\% | 08/15/2026 | 17,062 | 18,602 |
| 49,720 | GNMA POOL \#0432701 | 8.00\% | 06/15/2026 | 52,933 | 57,504 |
| 28,504 | GNMA POOL \#0433892 | 7.00\% | 07/15/2028 | 29,863 | 32,378 |
| 19,188 | GNMA POOL \#0434101 | 7.00\% | 12/15/2028 | 20,104 | 21,796 |
| 54,122 | GNMA POOL \#0434237 | 6.00\% | 03/15/2029 | 54,967 | 59,894 |
| 6,823 | GNMA POOL \#0438772 | 8.00\% | 08/15/2026 | 7,265 | 7,891 |
| 7,171 | GNMA POOL \#0438778 | 8.00\% | 08/15/2026 | 7,636 | 8,294 |
| 13,204 | GNMA POOL \#0439645 | 8.00\% | 09/15/2026 | 14,059 | 15,271 |
| 26,341 | GNMA POOL \#0450368 | 7.00\% | 08/15/2028 | 27,598 | 29,921 |
| 13,065 | GNMA POOL \#0458918 | 7.00\% | 08/15/2028 | 13,687 | 14,840 |
| 43,109 | GNMA POOL \#0464692 | 7.00\% | 07/15/2028 | 45,166 | 48,967 |
| 27,294 | GNMA POOL \#0466888 | 7.00\% | 07/15/2028 | 28,595 | 31,003 |
| 68,542 | GNMA POOL \#0469797 | 7.00\% | 12/15/2028 | 71,814 | 77,857 |
| 48,047 | GNMA POOL \#0470493 | 7.00\% | 06/15/2029 | 50,341 | 54,609 |
| 34,795 | GNMA POOL \#0472997 | 7.00\% | 06/15/2029 | 36,454 | 39,547 |
| 10,729 | GNMA POOL \#0475872 | 7.00\% | 07/15/2028 | 11,241 | 12,188 |
| 6,918 | GNMA POOL \#0478875 | 7.50\% | 11/15/2029 | 7,307 | 7,879 |
| 35,031 | GNMA POOL \#0478881 | 7.50\% | 11/15/2029 | 36,996 | 39,894 |
| 39,342 | GNMA POOL \#0482784 | 7.00\% | 10/15/2028 | 41,221 | 44,689 |
| 17,081 | GNMA POOL \#0485451 | 6.50\% | 05/15/2031 | 17,566 | 19,131 |
| 36,501 | GNMA POOL \#0486539 | 7.00\% | 09/15/2028 | 38,242 | 41,462 |
| 8,243 | GNMA POOL \#0486761 | 7.00\% | 12/15/2028 | 8,636 | 9,363 |

PAR VALUE DESCRIPTION
U.S. GOVERNMENT SECURITIES

| 9,303 | GNMA POOL \#0487221 | 7.00\% | 05/15/2029 | \$ 9,747 | \$ 10,574 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 24,474 | GNMA POOL \#0487222 | 7.00\% | 05/15/2029 | 25,640 | 27,817 |
| 38,186 | GNMA POOL \#0493996 | 7.00\% | 07/15/2029 | 40,008 | 43,401 |
| 78,736 | GNMA POOL \#0499876 | 7.00\% | 06/15/2029 | 82,496 | 89,489 |
| 50,188 | GNMA POOL \#0499905 | 7.00\% | 05/15/2029 | 52,586 | 57,043 |
| 41,147 | GNMA POOL \#0499907 | 7.00\% | 05/15/2029 | 43,112 | 46,767 |
| 44,554 | GNMA POOL \#0500931 | 7.00\% | 06/15/2029 | 47,021 | 50,640 |
| 224,763 | GNMA POOL \#0503019 | 6.00\% | 03/15/2029 | 228,264 | 248,736 |
| 139,391 | GNMA POOL \#0505728 | 7.00\% | 06/15/2029 | 146,041 | 158,429 |
| 30,932 | GNMA POOL \#0506075 | 7.00\% | 11/15/2029 | 32,410 | 35,157 |
| 37,190 | GNMA POOL \#0507496 | 7.00\% | 06/15/2029 | 38,966 | 42,269 |
| 16,037 | GNMA POOL \#0509328 | 7.00\% | 06/15/2029 | 16,801 | 18,228 |
| 6,057 | GNMA POOL \#0510100 | 7.00\% | 07/15/2029 | 6,346 | 6,885 |
| 7,137 | GNMA POOL \#0510302 | 7.00\% | 08/15/2029 | 7,477 | 8,112 |
| 34,460 | GNMA POOL \#0510958 | 7.00\% | 05/15/2029 | 36,105 | 39,167 |
| 7,968 | GNMA POOL \#0510983 | 7.00\% | 06/15/2029 | 8,348 | 9,056 |
| 40,511 | GNMA POOL \#0512888 | 7.00\% | 07/15/2029 | 42,447 | 46,044 |
| 49,548 | GNMA POOL \#0512915 | 7.00\% | 07/15/2029 | 51,914 | 56,315 |
| 22,918 | GNMA POOL \#0513367 | 7.00\% | 08/15/2029 | 24,013 | 26,049 |
| 4,967 | GNMA POOL \#0520045 | 6.50\% | 06/15/2031 | 5,108 | 5,563 |
| 48,293 | GNMA POOL \#0530203 | 6.50\% | 04/15/2031 | 50,123 | 54,090 |
| 102,187 | GNMA POOL \#0530611 | 6.50\% | 05/15/2031 | 106,062 | 114,453 |
| 79,044 | GNMA POOL \#0530631 | 6.50\% | 06/15/2031 | 82,041 | 88,531 |
| 19,295 | GNMA POOL \#0539629 | 6.50\% | 04/15/2031 | 20,025 | 21,611 |
| 46,023 | GNMA POOL \#0541464 | 6.50\% | 06/15/2031 | 47,329 | 51,547 |
| 25,357 | GNMA POOL \#0548963 | 6.50\% | 03/15/2031 | 26,078 | 28,401 |
| 16,080 | GNMA POOL \#0549889 | 6.50\% | 05/15/2031 | 16,536 | 18,010 |
| 110,712 | GNMA POOL \#0552514 | 6.50\% | 04/15/2032 | 113,835 | 123,378 |
| 284,111 | GNMA POOL \#0552518 | 6.50\% | 04/15/2032 | 292,129 | 316,617 |
| 37,212 | GNMA POOL \#0557424 | 6.50\% | 05/15/2031 | 38,269 | 41,678 |
| 23,766 | GNMA PO0L \#0557467 | 6.50\% | 05/15/2031 | 24,442 | 26,618 |
| 82,044 | GNMA PO0L \#0560189 | 6.50\% | 04/15/2031 | 84,375 | 91,892 |
| 182,079 | GNMA P00L \#0780076 | 8.00\% | 02/15/2025 | 193,380 | 210,582 |
| 204,021 | GNMA P00L \#0780220 | 7.50\% | 08/15/2025 | 219,374 | 231,998 |
| 7,320 | GNMA POOL \#0780896 | 7.00\% | 11/15/2028 | 7,669 | 8,313 |
| 28,463 | GNMA P00L \#0781129 | 7.00\% | 11/15/2028 | 29,819 | 32,324 |
| 2,426,508 | U S TREASURY NOTE | 3.50\% | 05/15/2020 | 2,517,793 | 2,539,484 |
| 933,273 | U S TREASURY NOTE | 2.75\% | 05/31/2017 | 937,630 | 952,955 |
| 1,493,236 | U S TREASURY NOTE | 2.50\% | 06/30/2017 | 1,499,536 | 1,499,777 |
| 1,866,545 | U S TREASURY NOTE | 1.88\% | 06/30/2015 | 1,874,012 | 1,873,694 |
| 1,795,318 | TOTAL U.S. GOVERNM |  |  | \$12,091,031 | \$12,554,338 |


| PAR VALUE | DESCRIPTION | COUPON RATE | MATURITY | COST | FAIR VALUE |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CORPORATE BONDS |  |  |  |  |  |
| 412,835 | ACA ABS LTD 144A | VAR | 06/10/2041 | \$ 70,771 | \$ 4 |
| 373,309 | ANADARKO FIN CO SR NT | 7.50\% | 05/01/2031 | 386,893 | 313,957 |
| 559,964 | ASSOC CORP NA BDS | 6.95\% | 11/01/2018 | 522,440 | 573,201 |
| 35,482 | AUTO BD RECEIVABLES TR 94-A |  |  | 35,482 | - |
| 373,309 | AXA SA US\$ SUB NT | 8.60\% | 12/15/2030 | 359,952 | 421,649 |
| 373,309 | BANC ONE CORP DEBS | 8.00\% | 04/29/2027 | 365,619 | 460,253 |
| 373,309 | BANK AMER CORP SR NT | 5.75\% | 12/01/2017 | 337,494 | 387,151 |
| 6,768,674 | BGI CORE ACTIVE BOND FUND |  |  | 123,366,081 | 139,121,474 |
| 373,309 | BURLINGTON RESOURCES FINANCE | 7.40\% | 12/01/2031 | 344,735 | 466,789 |
| 2,311,772 | CBO HLDGS III 04-3 CL A 144A | 1.00\% | 06/01/2019 | 2,299,723 | 2,299,723 |
| 1,954,636 | CBO HLDGS III 1A 04-1 C-2 144A | 7.00\% | 02/10/2038 | 2,042,220 | 2,042,220 |
| 933,273 | CHASEPEAKE \& POTOMAC TEL CO MD | 7.15\% | 05/01/2023 | 929,335 | 998,854 |
| 373,309 | CITIGROUP INC | 6.13\% | 05/15/2018 | 339,067 | 389,615 |
| 279,982 | CNF INCSR DEB | 6.70\% | 05/01/2034 | 235,566 | 279,615 |
| 159,776 | CONAGRA INCNTS | 9.75\% | 03/01/2021 | 185,489 | 217,855 |
| 942,605 | CONTINENTAL AIRLS 01-1 CL A 2 | 6.50\% | 06/15/2011 | 910,258 | 939,306 |
| 373,309 | CORNING INCNT | 7.25\% | 08/15/2036 | 374,537 | 417,901 |
| 11,033 | DELTA FDG HM EQ LN TR 99-3 M-2 | VAR | 01/15/2030 | 2,096 | 24 |
| 933,273 | DEUTSCHE BK CAYMAN 2001-3 144A | VAR | 04/30/2030 | 221,634 | 159,151 |
| 125,218 | J P MORGAN RESI 02-R2 CL 3A1 | 6.00\% | 04/28/2026 | 126,742 | 128,812 |
| 933,273 | MACQUARIE GROUP LTD 144A | 6.00\% | 01/14/2020 | 927,904 | 945,881 |
| 892,257 | MID OCEAN CBO CL A 144A | 6.56\% | 11/05/2036 | 893,852 | 883,334 |
| 164,245 | MORGAN STANLEY ABS 03 NC10 M2 | VAR | 10/25/2033 | 106,825 | 75,144 |
| 120,351 | MORGAN STANLEY ABS 04-NC1 M2 | VAR | 11/25/2033 | 103,927 | 99,996 |
| 43,985 | MORGAN STANLEY ABS 04-NC2 M2 | VAR | 12/25/2033 | 36,360 | 23,327 |
| 746,618 | MORGAN STANLEY SR MEDIUM TERM | 5.95\% | 12/28/2017 | 656,298 | 756,070 |
| 489,968 | MURPHY OIL CORP NT | 7.05\% | 05/01/2029 | 491,350 | 565,041 |
| 373,309 | NATIONAL RURAL UTILITIES COOPE | 8.00\% | 03/01/2032 | 420,633 | 481,289 |
| 373,309 | NEXEN INC NT | 6.40\% | 05/15/2037 | 337,284 | 389,290 |
| 746,618 | NORTH STREET REFERENCED LINKED | VAR | 08/30/2030 | 665,173 | 665,173 |
| 905,275 | PACIFIC BELL | 7.38\% | 07/15/2043 | 918,210 | 958,622 |
| 817,115 | PACIFIC SHORES CDO C 144A 3C7 | VAR | 07/03/2037 | 765,726 | 82 |
| 1,995,617 | PREFERRED CPO A / B 144A | 8.95\% | 07/26/2030 | 1,535,237 | 2,221,219 |
| 656,453 | PREFERRED CPO A / B 144A | 8.95\% | 07/26/2030 | 652,899 | 652,899 |
| 979,936 | PREMIUM ASSET TR ACA 144A |  |  | 979,936 | - |
| 121,381 | SBA LOAN NESTING FEATHERS |  |  | 121,381 | 121,381 |
| 2,799,818 | SECURITY MUT LIFE INS CO 144A | 9.38\% | 12/15/2016 | 2,923,492 | 2,923,492 |
| 559,964 | SHELL INTL FIN B V GTD NT | 6.38\% | 12/15/2038 | 616,401 | 668,989 |
| 31,154 | SPDR BARCLAYS CAPITAL INTL |  |  | 1,848,212 | 1,674,535 |
| 1,866,545 | TRAINER WORTHAM FIRST A3L 144A | VAR | 04/10/2037 | 1,291,914 | 1,291,914 |
| 373,309 | UNITED UTILS PLCNT | 4.55\% | 06/19/2018 | 339,599 | 363,271 |
| 399,095 | VANGUARD BD INDEX FD INC TOTAL |  |  | 31,823,183 | 32,478,323 |
| 34,431,281 | TOTAL CORPORATE BONDS |  |  | \$181,911,930 | \$197,856,826 |
|  |  |  |  |  |  |
| 46,226,599 | TOTAL FIXED INCOME PORTFOLIO |  |  | \$194,002,961 | \$210,411,164 |


| DESCRIPTION | COST | FAIR VALUE | UNREALIZED <br> GAIN (LOSS) |
| :--- | ---: | ---: | ---: |
| BLACKROCK MORTGAGE INVESTORS | $\$ 13,779,577$ | $\$ 15,545,527$ | $\$ 1,765,950$ |
| CENTERBRIDGE | $5,226,327$ | $6,791,779$ | $1,565,452$ |
| COMMERCE STREET INCOME PARTNER | $7,018,604$ | $8,182,793$ | $1,164,189$ |
| GS CREDIT OPPS FUND 2008 | $20,148,372$ | $22,730,434$ | $2,582,062$ |
| NISSWA FIXED INCOME FUND LP | $5,599,636$ | $5,737,947$ | 138,311 |
| OHA STRATEGIC CREDIT | $3,839,917$ | $4,991,215$ | $1,151,298$ |
| PSPRS PNMAC MORTGOPP | $24,265,090$ | $24,910,585$ | 645,495 |
| PSPRS-APOLLO EUR NPL | $8,303,785$ | $9,211,139$ | 907,354 |
| TENNENBAUM DIP | 856,676 | 911,868 | 55,192 |
| WATERSTONE MARKET NEUTRAL | $7,466,182$ | $7,692,326$ | $\mathbf{2 2 6 , 1 4 4}$ |
| TOTAL CREDIT OPPORTUNITIES PORTFOLIO | $\mathbf{\$ 9 6 , 5 0 4 , 1 6 6}$ | $\mathbf{\$ 1 0 6 , 7 0 5 , 6 1 3}$ | $\mathbf{\$ 1 0 , 2 0 1 , 4 4 7}$ |


| DESCRIPTION | COST | FAIR VALUE | UNREALIZED GAIN (LOSS) |
| :---: | :---: | :---: | :---: |
| ABRY PARTNERS | \$ 4,766,604 | \$ 9,455,286 | \$ 4,688,682 |
| APOLLO INVESTMENT FUND VII | 4,848,395 | 5,881,720 | 1,033,325 |
| BLACKSTONE CAPITAL PARTNERS V | 3,459,536 | 3,468,997 | 9,461 |
| CASTLE CREEK | 2,773,924 | 3,223,660 | 449,736 |
| CHARLESBANK EQUITY FUND VII | 732,328 | 710,401 | $(21,927)$ |
| DAG VENTURES II CO-INVEST | 3,532,026 | 1,251,900 | $(2,280,126)$ |
| DAG VENTURES II DIRECT | 982,880 | 772,544 | $(210,336)$ |
| DAG VENTURES III CO-INVEST | 2,348,648 | 2,245,577 | $(103,071)$ |
| DAG VENTURES III DIRECT | 2,258,967 | 2,093,547 | $(165,420)$ |
| DAG VENTURES IV CO-INVEST LP | 3,506,359 | 3,495,287 | $(11,072)$ |
| DAG VENTURES IV LP | 2,056,788 | 2,234,311 | 177,523 |
| DFJ MERCURY II | 933,273 | 933,273 | - |
| DRUG RYLTY II CO=INV | 541,974 | 595,054 | 53,080 |
| DRUG RYLTY II DIRECT | 605,186 | 553,154 | $(52,032)$ |
| INSIGHT EQUITY II | 52,300 | 45,271 | $(7,029)$ |
| INSIGHT EQUITY MEZZANINE I | 42,881 | 43,999 | 1,118 |
| ISHARES RUSSELL 2000 INDEX FUN | 32,419,996 | 32,401,557 | $(18,439)$ |
| LADDER | 3,601,605 | 4,125,332 | 523,727 |
| LITTLEJOHN FUND IV | 343,403 | 343,403 | - |
| LONGWORTH VP III | 617,827 | 449,385 | $(168,442)$ |
| MESIROW CAPITAL PARTNERS IX | 2,928,885 | 2,547,508 | $(381,377)$ |
| MIDOCEAN PARTNER III CO-INVEST | 233,318 | 126,738 | $(106,580)$ |
| MIDOCEAN PARTNER III DIRECT | 3,314,106 | 1,896,994 | $(1,417,112)$ |
| MILLENNIUM TECHNOLOGY | 186,655 | 186,655 | - |
| PENINSULA EQUITY PARTNERS | 611,433 | 503,561 | $(107,872)$ |
| PROSPECTOR EQUITY CAPITAL | 617,794 | 427,458 | $(190,336)$ |
| STEPSTONE AZ SECONDARY | 3,116,946 | 3,333,276 | 216,330 |
| STERLING GROUP PARTNERS III | 10,176 | 10,176 | - |
| TOWERBROOK INVESTORS III | 1,771,838 | 2,225,126 | 453,288 |
| TRIDENT V LP | 480,822 | 480,822 | - |
| VALLEY VENTURES III | 1,316,062 | 1,007,780 | $(308,282)$ |
| VALLEY VENTURES III ANNEX | 397,375 | 292,213 | $(105,162)$ |
| TOTAL PRIVATE EQUITY PORTFOLIO | \$85,410,310 | \$87,361,965 | \$1,951,655 |


| DESCRIPTION | COST | FAIR VALUE | UNREALIZED <br> GAIN (LOSS) |
| :--- | ---: | ---: | ---: |
| ALTERNA I | $\$ 1,623,018$ | $\$ 1,769,944$ | $\$ 146,926$ |
| BLUEGOLD CAPITAL FUND LTD | $2,239,855$ | $2,035,591$ | $(204,264)$ |
| CONSERVATION FORESTRY FUND I | $3,836,619$ | $3,812,733$ | $(23,886)$ |
| CONSERVATN FOREST II | $2,317,882$ | $2,196,058$ | $(121,824)$ |
| GEOSPHERE | $3,733,091$ | $3,728,441$ | $(4,650)$ |
| HAWKER CAPITAL HARRIER FUND | $3,733,091$ | $3,494,822$ | $(238,269)$ |
| HELIOS SUNBEAM OPPORTUNITIES | $3,733,091$ | $3,594,682$ | $(138,409)$ |
| JP MORGAN AIRRO FUND | $1,624,906$ | $1,578,387$ | $(46,519)$ |
| MACQUARIE EUR INFRASTRUCT III | $3,222,710$ | $3,038,595$ | $(184,115)$ |
| MACQUARIE INFRASTRUCTURE II US | $2,209,120$ | $2,310,730$ | 101,610 |
| ORG SECONDARY - REAL ASSETS | $3,876,142$ | $6,146,945$ | $2,270,803$ |
| SPDR SER TR DB INTL GOVT | $2,767,103$ | $2,505,642$ | $(261,461)$ |
| US 1OYR NOTE FUTURES | 0 | 33,370 | 33,370 |
| US 5YR TREAS NTS FUTURES | 0 | $(5,280)$ | $(5,280)$ |
| US TREAS BD FUTURES | 0 | $(13,658)$ | $(13,658)$ |
| US TREAS-CPI INFLAT | $3,923,954$ | $3,034,817$ | 110,863 |
| US TREAS-CPI INFLATION INDEX | $6,281,136$ | $6,357,765$ | 76,629 |
| US ULTRA BOND (CBT) | 0 | $(7,035)$ | $(7,035)$ |
| VIRIDIAN FUND LTD | $2,239,854$ | $2,204,917$ | $(34,937)$ |
| TOTAL REAL ASSETS PORTFOLIO | $\$ 46,361,572$ | $\$ 47,817,466$ | $\$ 1,455,894$ |


| DESCRIPTION | COST | FAIR VALUE | UNREALIZED GAIN (LOSS) |
| :---: | :---: | :---: | :---: |
| ALCION II | \$ 198,119 | \$ 198,119 | \$ |
| APEX FUNDI | 10,938,786 | 12,340,153 | 1,401,367 |
| APEX FUND II | 1,828,024 | 2,101,957 | 273,933 |
| BREP VI | 5,613,765 | 3,628,365 | $(1,985,400)$ |
| CLSA FUDO CAP II | 558,672 | 566,705 | 8,033 |
| COLGATE WILLOW SPRINGS | 821,103 | 821,103 | - |
| DESERT TROON | 58,248,655 | 52,290,924 | $(5,957,731)$ |
| HARRISON ST RE | 11,497,920 | 10,854,557 | $(643,363)$ |
| HARRISON ST RE COINV | 1,399,909 | 1,702,019 | 302,110 |
| ORG SECONDARY FUND | 1,182,061 | 1,127,273 | $(54,788)$ |
| OWH BERKANA DEV | 912,633 | 912,633 | - |
| OWH BERKANA HLD | 1,888,611 | 1,334,311 | $(554,300)$ |
| PEBBLECREEK | 7,148,869 | 7,148,869 | - |
| PIVOTAL EQUITY | 466,636 | 527,299 | 60,663 |
| PSPRS-CATALYST EURO | 1,408,847 | 102,004 | $(1,306,843)$ |
| PSPRS-IRONPOINTRE | 6,444,135 | 6,010,730 | $(433,405)$ |
| PSPRS-MOUNT GRANGE | 1,490,671 | 861,418 | $(629,253)$ |
| PSPRS-WALTONMEXICO | 2,333,182 | 1,329,583 | $(1,003,599)$ |
| WALTON FUND V | 15,992 | 15,992 | - |
| WHISP CANYON OWC | 5,377,729 | 5,377,729 | - |
| TOTAL PRIVATE EQUITY PORTFOLIO | \$119,774,319 | \$109,251,743 | \$(10,522,576) |


| DESCRIPTION | COST | FAIR VALUE | UNREALIZED <br> GAIN (LOSS) |
| :--- | ---: | ---: | ---: |
| BLACKROCK GLOBAL ASCENTL | $\$ 37,330,908$ | $\$ 35,951,999$ | $\$(1,378,909)$ |
| BRIDGEWATER PURE ALPHA | $37,330,907$ | $40,407,083$ | $3,076,176$ |
| TOTAL GTAA PORTFOLIO | $\$ 74,661,815$ | $\$ 76,359,082$ | $\$ 1,697,267$ |

THIS PAGE INTENTIONALLY BLANK

## ACTUARIAL SECTION

Actuary Certification Letter ..... 64
Actuarial Balance Sheet ..... 65
Summary of Valuation Assumptions ..... 66
Solvency Test ..... 68
Summary of Active Member Data ..... 69
Summary of Retirees and Inactive Members ..... 70
Schedule of Experience Gain/Loss ..... 71

October 29, 2010

The Fund Manager
Arizona Corrections Officer Retirement Plan
3010 East Camelback Road, Suite 200
Phoenix, Arizona 85016-4416
Re: Arizona Corrections Officer Retirement Plan Actuarial Valuation as of June 30, 2010
Ladies and Gentlemen:
The results of the June 30, 2010 annual actuarial valuations of members covered by the Arizona Corrections Officer Retiremont Plan (CORP) are presented in this report. The purpose of the valuations is to measure CORP's funding progress and to establish contribution rates for the 2011-2012 fiscal year.

The valuations are based upon current plan provisions of the Arizona Corrections Officer Retirement Plan. All promised benefits are included in the actuarially calculated contribution rates. These provisions are summarized in Section F.

In preparing this report we relied, without audit, on information (some oral and some written) supplied by the State Retirement System. This information includes, but is not limited to, statutory provisions, employee and retiree census, and financial information. In our examination of this data, we have found it to be reasonably consistent and comparable with data used for other purposes. Since the valuation results are dependent on the integrity of the data supplied, the results can be expected to differ if the underlying data is incomplete or missing. It should be noted that if any data or other information is inaccurate or incomplete, our calculations may need to be revised.

GRS’s work product was prepared exclusively for the Arizona Corrections Officer Retirement Plan for a specific and limited purpose. It is a complex, technical analysis that assumes a high level of knowledge concerning the System's operations, and uses System data, which GRS has not audited. It is not for the use or benefit of any third party for any purpose. Any third party recipient of GRS's work product who desires professional guidance should not rely upon GRS's work product, but should engage qualified professionals for advice appropriate to its own specific needs. Any distribution of this report must be provided in its entirety including this cover letter, unless prior written consent is obtained from GRS.

The valuations were completed by qualified actuaries in accordance with accepted actuarial procedures prescribed by the Actuarial Standards Board. All of the actuaries submitting this report are Members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. To the best of our knowledge, this report is complete and accurate and the actuarial methods and assumptions produced results that are reasonable.

Respectfully submitted,


BBM/CN/MB:sc

## AGGREGATE ACTUARIAL BALANCE SHEET

YEAR ENDED JUNE 30, 2010

| ACTUARIAL ASSETS | $\mathbf{2 0 1 0}$ |
| :--- | ---: |
| ACCRUED ASSETS |  |
| Member Accumulated Contributions | $333,355,204$ |
| Employer and Benefit Payment Reserves | $779,434,099$ |
| Funding Value Adjustment | $288,089,496$ |
| Total Accrued Assets | $\mathbf{1 , 4 0 0 , 8 7 8 , 7 9 9}$ |
| PROSPECTIVE ASSETS |  |
| Member Contributions | $317,436,272$ |
| Employer Normal Costs | $381,207,493$ |
| Employer Unfunded Actuarial Accrued Liability | $339,861,626$ |
| Total Prospective Assets | $\mathbf{1 , 0 3 8 , 5 0 5 , 3 9 1}$ |
| Total Actuarial Assets | $\mathbf{\$ 2 , 4 3 9 , 3 8 4 , 1 9 0}$ |
|  |  |
| ACTUARIAL PRESENT VALUES (LIABILITY) | $\mathbf{2 0 1 0}$ |
| PENSIONS IN PAYMENT STATUS |  |
| Pensions in payment status |  |
| PROSPECTIVE PAYMENTS | $\mathbf{1 , 5 5 6 , 7 3 3 , 0 7 3}$ |
| Retirement Payments | $76,676,049$ |
| Health Insurance Payments | $97,329,830$ |
| Member Contribution Refunds | $18,734,779$ |
| Pension Increase Reserve | $\mathbf{1 , 7 4 9 , 4 7 3 , 7 3 1}$ |
| Total Prospective Payments | $\mathbf{2 , 4 3 9 , 3 8 4 , 1 9 0}$ |
| Total Actuarial Present Values (Liabilities) |  |

ACTUARIAL SECTION

## SUMMARY OF VALUATION ASSUMPTIONS

ECONOMIC ASSUMPTIONS
Interest Rate: 8.50\% (net of expenses)
Salary Increases: $5.50 \%$ for inflation

## DEMOGRAPHIC ASSUMPTIONS

Retired Member Non-Disability Mortality Rates: RP2000 Health Annuitant Mortality Table, male ages set forward 2 years and female ages set forward 2 years.
Active Member Non-Disability Mortality Rates: RP2000 Health Annuitant Mortality Table, male ages set forward 3 years and female ages set forward 3 years.

## HEALTHY MORTALITY TABLES

This assumption is used to measure the probabilities of each benefit payment being made after retirement.
For disabled members, non-disability rates with a five year set forward were used.

MORTALITY RATES AND LIFE EXPECTANCY
RETIRED MEMBERS

|  | PROBABILITY OF <br> SAMPLE |  | FUTURE LIFE <br> DYING NEXT YEAR <br> EXPECTANCY (YEARS) |  |
| :---: | :---: | :---: | :---: | :---: |
| $\mathbf{5 0}$ | $.56 \%$ | $.26 \%$ | 28.39 | 31.42 |
| $\mathbf{M E N}$ | WOMEN | MEN | WOMEN |  |
| $\mathbf{5 5}$ | $.64 \%$ | $.44 \%$ | 24.16 | 26.89 |
| $\mathbf{6 0}$ | $.99 \%$ | $.77 \%$ | 20.00 | 22.58 |
| $\mathbf{6 5}$ | $1.65 \%$ | $1.25 \%$ | 16.09 | 18.55 |
| $\mathbf{7 0}$ | $2.73 \%$ | $2.07 \%$ | 12.54 | 14.82 |
| $\mathbf{7 5}$ | $4.69 \%$ | $3.41 \%$ | 9.42 | 11.50 |
| $\mathbf{8 0}$ | $8.05 \%$ | $5.63 \%$ | 6.81 | 8.62 |

MORTALITY RATES AND LIFE EXPECTANCY
ACTIVE MEMBERS

| SAMPLE AGES | PROBABILITY OF DYING NEXT YEAR |  | FUTURE LIFE EXPECTANCY (YEARS) |  |
| :---: | :---: | :---: | :---: | :---: |
|  | MEN | WOMEN | MEN | WOMEN |
| 50 | .26\% | .21\% | 30.38 | 34.23 |
| 55 | . $40 \%$ | .33\% | 25.80 | 29.63 |
| 60 | .65\% | .50\% | 21.37 | 25.17 |
| 65 | .91\% | .69\% | 17.09 | 20.84 |
| 70 | 3.04\% | 2.30\% | 13.27 | 16.96 |
| 75 | 5.21\% | 3.76\% | 10.55 | 14.17 |
| 80 | 8.97\% | 6.25\% | 8.74 | 12.26 |

Retirement Rates: Service related rates based on the following schedule
PERCENT OF ACTIVE MEMBERS RETIRING WITHIN YEAR
FOLLOWING ATTAINMENT OF INDICATED YEARS OF SERVICE

| SERVICE <br> IN YEARS | \% RETIRING <br> NEXT YEAR | SERVICE <br> IN YEARS | \% RETIRING <br> NEXT YEAR | SERVICE <br> IN YEARS | \% RETIRING <br> NEXT YEAR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{2 0}$ | $30 \%$ | $\mathbf{2 5}$ | $40 \%$ | $\mathbf{3 0}$ | $30 \%$ |
| $\mathbf{2 1}$ | $30 \%$ | $\mathbf{2 6}$ | $40 \%$ | $\mathbf{3 1}$ | $30 \%$ |
| $\mathbf{2 2}$ | $25 \%$ | $\mathbf{2 7}$ | $30 \%$ | 32 | $65 \%$ |
| $\mathbf{2 3}$ | $25 \%$ | $\mathbf{2 8}$ | $15 \%$ | 33 | $65 \%$ |
| $\mathbf{2 4}$ | $25 \%$ | $\mathbf{2 9}$ | $15 \%$ | $\mathbf{3 4}$ | $100 \%$ |

Active members are eligible to retire normally at any age with 20 years of service ( 25 years for dispatchers), at age 62 with 10 years of service, or when a combination of age and credited service is equal to or greater than 80 years.

These rates adopted by the Board of Trustees, as recommended by the Plan's actuary, were first used for the June 30, 2007 valuation.

## MISCELLANEOUS AND TECHNICAL ASSUMPTIONS

MARRIAGE ASSUMPTION
$90 \%$ of males and females are assumed to be married for purposes of death-in-service benefits. Male spouses are assumed to be three years older than female spouses for active member valuation purposes.

PAY INCREASE TIMING
Six months after the valuation date.

DECREMENT TIMING
Decrements of all types are assumed to occur mid-year.

ELIGIBIIITY TESTING
Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.
DECREMENT RELATIVITY
Decrement rates are used directly from the experience study, without adjustment for multiple decrement table effects.

DECREMENT OPERATION
Disability and turnover decrements do not operate during retirement eligibility.

SERVICE CREDIT ACCRUALS
It is assumed that members accrue one year of service credit per year.

INCIDENCE OF CONTRIBUTIONS
Contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are made.

NORMAL FORM OF BENEFIT
A straight life payment is the assumed normal form of benefit for members who are not married, and the $75 \%$ Joint and Survivor form of payment with no reduction, for married members. $90 \%$ of members are assumed to be married at time of retirement.

BENEFIT SERVICE
Exact fractional service is used to determine the amount of benefit payable.
NORMAL COST PERCENTAGE
For the purposes of calculating the Normal Cost as a percent of payroll under the Projected Unit Credit Cost Method, the Normal Cost was projected with interest to the applicable Fiscal Year and divided by the Payroll projected with wage base to the applicable Fiscal Year.

HEALTH CARE UTILIZATION
$80 \%$ of future retirees are expected to utilize health care. $90 \%$ of those are assumed to be married.

## SOLVENCY TEST

Testing the financial solvency of a retirement plan can be done in several ways. The funding objective is to meet long-term benefit promises through contributions that remain approximately level from year to year as a percent of member payroll. If the contributions to the plan are level in concept and soundly executed, and if the plan continues its present operations pattern for the indefinite future, the plan will pay all promised benefits when due - the ultimate test of financial soundness.

A short term solvency test is one means of checking a plan's progress under its funding program. In a short term solvency test, the plan's present assets (cash and investments) are compared with:

- Active member contributions on deposit.
- The liabilities for future benefits to present retired lives.
- The liabilities for service already rendered by active members.

In a plan that has been following the discipline of level percent of payroll financing, the liabilities for active member contributions on deposit (liability 1) and the liabilities for future benefits to present retired lives (liability 2 ) will be fully covered by present assets (except in rare circumstances). In addition, the liabilities for service already rendered by active members (liability 3 ) will be partially covered by the remainder of present assets. Generally, if the plan has been using level cost financing, the funded portion of liability 3 will increase over time. Liability 3 being fully funded is very rare. All amounts presented are in thousands.

| YEAR ENDED JUNE 30, | $\begin{aligned} & \text { ACTIVE } \\ & \text { MEMBER } \\ & \text { CONT. } \end{aligned}$ | $\begin{array}{r} \text { RETIRANTS } \\ \text { AND } \\ \text { BENEFICIARIES } \end{array}$ | ACTIVE MEMBERS (ER PORTION) | VALUATION ASSETS AVAILABLE FOR BENEFITS | PORTION OF ACCRUED LIABILITIES COVERED BY NET ASSETS AVAILABLE FOR BENEFITS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \$(1) | \$ (2) | \$ 3 ) | \$ (2) | (1) | (2) | (3) |
| 2001 | 132,404 | 133,492 | 288,491 | 776,177 | 100.0\% | 100.0\% | 100.0\% |
| 2002 | 143,888 | 185,594 | 303,756 | 782,446 | 100.0\% | 100.0\% | 100.0\% |
| 2003 | 152,454 | 219,737 | 337,107 | 758,579 | 100.0\% | 100.0\% | 100.0\% |
| 2004 | 165,145 | 278,403 | 352,227 | 833,621 | 100.0\% | 100.0\% | 100.0\% |
| 2005 | 178,353 | 332,199 | 395,473 | 872,981 | 100.0\% | 100.0\% | 91.6\% |
| 2006 | 193,819 | 384,513 | 402,876 | 919,868 | 100.0\% | 100.0\% | 84.8\% |
| 2007 | 213,688 | 430,172 | 466,941 | 940,126 | 100.0\% | 100.0\% | 63.4\% |
| 2008 | 296,317 | 504,462 | 589,584 | 1,027,026 | 100.0\% | 100.0\% | 68.9\% |
| 2009 | 314,100 | 586,596 | 683,597 | 1,309,124 | 100.0\% | 100.0\% | 59.7\% |
| 2010 | 345,122 | 689,910 | 686,973 | 1,382,144 | 100.0\% | 100.0\% | 50.5\% |

See Schedule of Funding Progress in the Required Supplementary Information.

AGE AND SERVICE DISTRIBUTION
Listed below is a summary of Active Members by age group, years of service and annual compensation. The summary points out that there were 14,319 active members in the Plan as of June 30,2010 , compared to 14,580 for the prior year.

|  | YEARS OF SERVICE TO VALUATION DATE |  |  |  |  |  |  | TOTALS |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
| ATTAINED <br> AGE | $\mathbf{0 - 4}$ | $\mathbf{5 - 9}$ | $\mathbf{1 0 - 1 4}$ | $\mathbf{1 5 - 1 9}$ | $\mathbf{2 0 - 2 4}$ | $\mathbf{2 5 - 2 9}$ | $\mathbf{3 0 +}$ | NO. | AVG. SALARY |  |
| $<25$ | 812 | 14 |  |  |  |  |  | 826 | 33,694 |  |
| $25-29$ | 1,605 | 436 | 2 |  |  |  |  | 2,043 | 37,350 |  |
| $30-34$ | 1,063 | 836 | 206 |  |  |  |  | 2,105 | 40,697 |  |
| $35-39$ | 878 | 691 | 634 | 109 |  |  |  | 2,312 | 43,303 |  |
| $40-44$ | 656 | 535 | 449 | 350 | 62 |  |  | 2,052 | 45,106 |  |
| $45-49$ | 437 | 400 | 340 | 302 | 210 | 16 |  | 1,705 | 46,490 |  |
| $50-54$ | 310 | 345 | 283 | 221 | 150 | 65 | 7 | 1,381 | 47,025 |  |
| $55-59$ | 235 | 254 | 238 | 156 | 106 | 37 | 19 | 1,045 | 47,403 |  |
| $60-69$ | 114 | 172 | 143 | 114 | 78 | 24 | 6 | 651 | 47,949 |  |
| $70+$ | 42 | 68 | 43 | 22 | 17 | 5 | 2 | 199 | 46,503 |  |
| Total | $\mathbf{6 , 1 5 2}$ | $\mathbf{3 , 7 5 1}$ | $\mathbf{2 , 3 3 8}$ | $\mathbf{1 , 2 7 4}$ | $\mathbf{6 2 3}$ | $\mathbf{1 4 7}$ | $\mathbf{3 4}$ | $\mathbf{1 4 , 3 1 9}$ | $\mathbf{4 3 , 0 5 3}$ |  |

COMPARATIVE SCHEDULE

| YEAR ENDED <br> JUNE 30, | ACTIVE <br> MEMEBERS | PAYROLL <br> $\mathbf{+ 0 0 0}$ | AGE <br> (YEARS) | SERVICE <br> (YEARS) | AVERAGE <br> SALARY | INCREASE IN <br> AVG. PAY |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2001 | 11,047 | 339,783 | 38.1 | 6.6 | 30,758 | $2.3 \%$ |
| 2002 | 10,464 | 330,428 | 38.7 | 6.0 | 31,578 | $2.7 \%$ |
| 2003 | 10,964 | 358,161 | 38.8 | 6.0 | 32,667 | $3.4 \%$ |
| 2004 | 11,583 | 381,942 | 38.7 | 6.0 | 32,974 | $0.9 \%$ |
| 2005 | 11,752 | 404,156 | 39.6 | 6.0 | 34,390 | $4.3 \%$ |
| 2006 | 11,914 | 437,744 | 39.3 | 6.2 | 36,742 | $6.8 \%$ |
| 2007 | 12,780 | 515,428 | 39.0 | 6.0 | 40,331 | $9.8 \%$ |
| 2008 | 14,716 | 642,621 | 39.6 | 7.0 | 43,668 | $8.3 \%$ |
| 2009 | 14,580 | 630,825 | 40.2 | 7.4 | 43,266 | $-0.9 \%$ |
| 2010 | 14,319 | 616,481 | 40.3 | 7.8 | 43,053 | $-0.5 \%$ |

## SUMMARY OF RETIREES AND INACTIVE MEMBERS

| RETIREES AND BENEFICIARIES |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| YEAR ENDED JUNE 30, | NUMBER REMOVED FROM ROLES | $\begin{gathered} \text { NUMBER } \\ \text { ADDED } \\ \text { TO } \\ \text { ROLES } \end{gathered}$ | TOTALS | ANNUAL ALLOWANCES REMOVED FROM ROLES | $\begin{array}{r} \text { ANNUAL } \\ \text { ALLOWANCES } \\ \text { ADDED TO } \\ \text { ROLES } \end{array}$ | ANNUAL PENSIONS | PERCENT INCREASE | $\begin{aligned} & \text { AVERAGE } \\ & \text { PENSION } \end{aligned}$ |
| 2001 | 40 | 155 | 1,040 |  |  | 13,446,069 | 21.8\% | 12,929 |
| 2002 | 30 | 208 | 1,218 |  |  | 17,660,064 | 31.3\% | 14,499 |
| 2003 | 32 | 177 | 1,363 |  |  | 21,653,042 | 22.6\% | 15,886 |
| 2004 | 32 | 205 | 1,536 | 435,860 | 5,033,961 | 26,261,143 | 21.3\% | 17,097 |
| 2005 | 61 | 258 | 1,733 | 3,761,718 | 8,829,800 | 31,329,225 | 19.3\% | 18,078 |
| 2006 | 46 | 232 | 1,919 | 2,405,616 | 4,807,848 | 37,272,180 | 19.0\% | 19,065 |
| 2007 | 68 | 272 | 2,123 | 971,820 | 6,365,640 | 42,666,000 | 14.0\% | 20,097 |
| 2008 | 100 | 405 | 2,428 | 2,197,553 | 10,594,200 | 51,062,647 | 19.7\% | 21,031 |
| 2009 | 118 | 281 | 2,591 | 1,532,671 | 9,559,615 | 59,089,591 | 15.7\% | 22,806 |
| 2010 | 52 | 369 | 2,908 | 850,373 | 11,529,838 | 69,769,056 | 18.1\% | 23,992 |

*Effective June 30, 2004, started reporting the annual allowances removed from roles and annual allowances added to roles. This information was not available prior to the effective date.

As of June 30,2010 , there were 1,601 inactive members in the Plan who had not withdrawn their accumulated member contributions. They are broken down by attained age and years of service as follows:

## INACTIVE MEMBERS

| YEARS OF SERVICE TO VALUATION DATE |  |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| ATTAINED <br> AGE | $\mathbf{0 - 4}$ | $\mathbf{5 - 9}$ | $\mathbf{1 0 - 1 4}$ | $\mathbf{1 5 - 1 9}$ | $\mathbf{2 0 +}$ | TOTAL |
| $<30$ | 462 | 8 |  |  |  | $\mathbf{4 7 0}$ |
| $30-39$ | 417 | 61 | 10 |  |  | $\mathbf{4 8 8}$ |
| $40-44$ | 122 | 17 | 12 | 2 | 1 | $\mathbf{1 5 4}$ |
| $45-49$ | 103 | 13 | 15 | 3 | 3 | $\mathbf{1 3 7}$ |
| $50-54$ | 83 | 19 | 18 | 6 |  | $\mathbf{1 2 6}$ |
| $55-59$ | 72 | 12 | 31 | 10 | 2 | $\mathbf{1 2 7}$ |
| $60-69$ | 55 | 14 | 17 | 9 | 2 | $\mathbf{9 7}$ |
| $70+$ | 2 |  |  |  |  | $\mathbf{2}$ |
| Total | $\mathbf{1 , 3 1 6}$ | $\mathbf{1 4 4}$ | $\mathbf{1 0 3}$ | $\mathbf{3 0}$ | $\mathbf{8}$ | $\mathbf{1 , 6 0 1}$ |

## SCHEDULE OF EXPERIENCE GAIN (LOSS)

YEAR ENDED JUNE 30, 2010

| (1) | UAAL* at start of year | \$275,169,309 |
| :---: | :---: | :---: |
| (2) | Normal cost from last valuation | 92,401,214 |
| (3) | Actual Contributions | 109,651,320 |
| (4) | Interest accrual | 22,656,261 |
| (5) | Expected UAAL before changes (1)+(2)+(3)+(4) | 280,575,464 |
| (6) | Change from benefit increases | 21,264,230 |
| (7) | Changes in actuarial methods \& actuary | 0 |
| (8) | Change in Reserve for future pension increases | 2,324,213 |
| (9) | Expected UAAL after changes: $(5)+(6)+(7)+(8)$ | 304,163,907 |
| (10) | Actual UAAL at end of year | 339,861,626 |
| (11) | Experience Gain (Loss) (8)-(9) | \$ $(35,697,719)$ |
| (12) | Percent of actuarial accrued liability | (2.3\%) |

* Unfunded Actuarial Accrued Liability

THIS PAGE INTENTIONALLY BLANK


## FINANCIAL TRENDS

SUMMARY
The Statistical Section provides additional historical perspective, context, and detail to assist the reader in using the information in the financial statements, notes to the financial statements and required supplemental information to understand and assess the economic condition of CORP.

Financial trend information is intended to assist users in understanding and assessing the changes in the financial position over time. Schedules and charts presenting financial trend information are Schedule of Changes in Net Assets, Schedule of Revenue by Source, Schedule of Expenses by Type, Deductions from Net Assets for Benefits and Refunds by Type, Valuation Assets vs. Pension Liabilities, and Contribution Rates.

Operating information is intended to provide contextual information about the operations and resources of CORP to assist readers in using financial statement information to understand and assess the economic condition. Schedules and charts presenting operating information are Membership in the Retirement Plan*, Principal Participating Employers, Benefit Participants by Location, Summary of the Growth of the Plan, Benefits Payable*, Average Monthly Benefit Amounts*, Summary of Benefit Increases*, Schedule of Changes in Employers' Reserve Balances, Schedule of Changes in Refundable Member Reserve Balances, Schedule of Employers' Earnings Distribution, and Participating Employers.

Schedules and information are derived from CORP internal sources unless otherwise indicated.

* Schedules and data are provided by actuarial consultant Gabriel Roeder Smith \& Company.

|  | 2010 | 2009 | 2008 | 2007 | 2006 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ADDITIONS |  |  |  |  |  |
| Member Contributions | \$ 54,481 | \$ 53,098 | \$ 111,098 | \$ 41,355 | \$ 37,134 |
| Employer Contributions | 54,437 | 56,015 | 150,729 | 24,623 | 24,028 |
| Net Investment Gain (Loss) | 129,267 | $(216,314)$ | $(68,040)$ | 144,850 | 64,198 |
| Member Service Purchase | 733 | 429 | 871 | 930 | 994 |
| Transfers IN | 543 | 352 | 3,217 | 456 | 1,234 |
| Total Additions (Reductions) | 239,461 | $(106,419)$ | 197,875 | 212,214 | 127,588 |
| DEDUCTIONS |  |  |  |  |  |
| Pension \& Insurance Benefits | 66,412 | 57,697 | 51,046 | 41,630 | 36,709 |
| Refunds To Terminated Members | 19,775 | 14,879 | 16,212 | 16,634 | 15,741 |
| Administrative Expenses | 915 | 1,065 | 1,103 | 732 | 674 |
| Transfers OUT | 586 | 512 | 864 | 2,063 | 1,555 |
| Total Deductions | 87,688 | 74,153 | 69,225 | 61,060 | 54,679 |
| NET INCREASE (DECREASE) | 151,773 | $(180,572)$ | 128,650 | 151,155 | 72,909 |
| NET ASSETS HELD IN TRUST |  |  |  |  |  |
| Beginning of Fiscal Year, July 1 | 961,016 | 1,141,588 | 1,012,938 | 861,783 | 788,874 |
| End of Fiscal Year, June 30 | \$1,112,789 | \$961,016 | \$1,141,588 | \$1,012,938 | \$861,783 |
|  | 2005 | 2004 | 2003 | 2002 | 2001 |
| ADDITIONS |  |  |  |  |  |
| Member Contributions | \$34,590 | \$31,338 | \$ 30,331 | \$ 29,532 | \$ 28,966 |
| Employer Contributions | 16,292 | 14,555 | 7,398 | 7,101 | 14,927 |
| Net Investment Gain (Loss) | 66,277 | 91,300 | 35,698 | $(100,518)$ | $(138,560)$ |
| Member Service Purchase | 719 | 0 | 0 | 0 | 0 |
| Transfers IN | 1,071 | 1,460 | 3,189 | 1,325 | 0 |
| Total Additions (Reductions) | 118,948 | 138,653 | 76,616 | $(62,559)$ | $(94,666)$ |
| DEDUCTIONS |  |  |  |  |  |
| Pension \& Insurance Benefits | 31,098 | 26,624 | 22,507 | 17,576 | 13,433 |
| Refunds To Terminated Members | 16,653 | 14,053 | 16,023 | 14,271 | 14,610 |
| Administrative Expenses | 922 | 541 | 427 | 397 | 366 |
| Transfers OUT | 637 | 1,139 | 1,049 | 2,060 | 1,498 |
| Total Deductions | 49,310 | 42,357 | 40,006 | 34,305 | 29,907 |
| NET INCREASE (DECREASE) | 69,639 | 96,297 | 36,610 | $(96,864)$ | $(124,573)$ |
| NET ASSETS HELD IN TRUST |  |  |  |  |  |
| Beginning of Fiscal Year, July 1 | 719,235 | 622,939 | 586,328 | 683,192 | 807,766 |
| End of Fiscal Year, June 30 | \$788,874 | \$719,235 | \$622,939 | \$586,328 | \$683,192 |

SCHEDULE OF REVENUE BY SOURCE (ALL PLANS COMBINED)
LAST TEN FISCAL YEARS

| YEAR <br> ENDING <br> JUNE 30, | MEMBER <br> CONT. | EMPLOYER <br> CONT. | \% OF <br> COVERED <br> PAYROLL | INVESTMENT <br> INCOME <br> (LOSS) | TRANSFERRED <br> IN FROM <br> OTHER PLANS | TOTAL |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2001 | $28,966,162$ | $14,927,396$ | $1.88 \%$ | $(138,559,756)$ | 0 | $(94,666,198)$ |
| 2002 | $29,532,366$ | $7,101,112$ | $1.15 \%$ | $(100,518,025)$ | $1,325,465$ | $(62,559,082)$ |
| 2003 | $30,330,914$ | $7,397,595$ | $1.71 \%$ | $35,698,266$ | $3,189,325$ | $76,616,100$ |
| 2004 | $31,337,579$ | $14,555,335$ | $3.95 \%$ | $91,300,470$ | $1,459,965$ | $138,653,349$ |
| 2005 | $34,589,714$ | $16,291,914$ | $4.07 \%$ | $66,277,084$ | $1,789,618$ | $118,948,330$ |
| 2006 | $37,134,076$ | $24,028,050$ | $5.47 \%$ | $64,197,983$ | $2,228,116$ | $127,588,225$ |
| 2007 | $41,354,907$ | $24,622,693$ | $4.46 \%$ | $144,850,095$ | $1,386,706$ | $212,214,401$ |
| 2008 | $111,097,660$ | $150,729,218$ | $6.72 \%$ | $(68,039,675)$ | $4,087,988$ | $197,875,191$ |
| 2009 | $53,098,136$ | $56,015,138$ | $8.65 \%$ | $(216,313,556)$ | 781,196 | $(106,419,086)$ |
| 2010 | $54,480,961$ | $54,437,078$ | $8.38 \%$ | $129,267,190$ | $1,276,087$ | $239,461,316$ |

SCHEDULE OF EXPENSES BY TYPE (ALL PLANS COMBINED) LAST TEN FISCAL YEARS

| YEAR <br> ENDING <br> JUNE 30, | BENEFITS | ADMIN. <br> EXPENSES | REFUNDS | TRANSFERRED <br> TOTHER <br> PLANS | TOTAL |
| :---: | ---: | ---: | ---: | ---: | ---: |
| 2001 | $13,433,499$ | 365,742 | $14,609,539$ | $1,498,459$ | $29,907,239$ |
| 2002 | $17,576,451$ | 397,110 | $14,271,104$ | $2,060,223$ | $34,304,888$ |
| 2003 | $22,506,792$ | 427,150 | $16,022,697$ | $1,049,418$ | $40,006,057$ |
| 2004 | $26,623,619$ | 541,070 | $14,053,002$ | $1,138,940$ | $42,356,631$ |
| 2005 | $31,097,950$ | 922,183 | $16,652,638$ | 637,008 | $49,309,779$ |
| 2006 | $36,708,528$ | 674,058 | $15,741,460$ | $1,555,240$ | $54,679,286$ |
| 2007 | $41,630,057$ | 732,236 | $16,634,320$ | $2,062,977$ | $61,059,590$ |
| 2008 | $51,045,908$ | $1,102,992$ | $16,211,929$ | 864,053 | $69,224,882$ |
| 2009 | $57,696,778$ | $1,064,825$ | $14,879,342$ | 511,697 | $74,152,642$ |
| 2010 | $66,411,778$ | 915,378 | $19,774,873$ | 586,100 | $87,688,129$ |

DEDUCTIONS FROM NET ASSETS FOR BENEFITS AND REFUNDS BY TYPE
LAST TEN FISCAL YEARS

| YEAR <br> ENDING <br> JUNE 30, | NORMAL <br> BENEFITS | SURVIVOR <br> BENEFITS | DISABILITY <br> BENEFITS | HEALTH <br> INSURANCE <br> SUBSIDY | DROP <br> BENEFITS | TOTAL <br> BENEFITS | REFUNDS |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2001 | $9,266,426$ | $2,587,972$ | 849,350 | 729,751 | - | $13,433,499$ | $14,609,539$ |
| 2002 | $12,301,106$ | $2,494,885$ | 986,621 | $1,793,839$ | - | $17,576,451$ | $14,271,104$ |
| 2003 | $15,678,608$ | $3,469,345$ | $1,045,433$ | $2,313,406$ | - | $22,506,792$ | $16,022,697$ |
| 2004 | $19,442,835$ | $3,677,576$ | $1,178,761$ | $2,324,447$ | - | $26,623,619$ | $14,053,002$ |
| 2005 | $23,519,992$ | $3,871,675$ | $1,305,434$ | $2,400,849$ | - | $31,097,950$ | $16,652,638$ |
| 2006 | $28,928,172$ | $4,472,559$ | $1,449,215$ | $1,858,582$ | - | $36,708,528$ | $15,741,460$ |
| 2007 | $33,341,839$ | $4,860,093$ | $1,514,939$ | $1,913,186$ | - | $41,630,057$ | $16,634,320$ |
| 2008 | $39,831,873$ | $5,934,454$ | $1,625,680$ | $2,073,245$ | $1,580,656$ | $51,045,908$ | $16,211,929$ |
| 2009 | $46,752,709$ | $6,685,021$ | $1,805,702$ | $2,207,889$ | 245,457 | $57,696,778$ | $14,879,342$ |
| 2010 | $54,722,001$ | $6,740,427$ | $1,914,842$ | $2,372,104$ | 662,404 | $66,411,778$ | $19,774,873$ |



VALUATION ASSETS vs. PENSION LIABILITIES
INCLUDES HEALTH INSURANCE SUBSIDY
LAST TEN FISCAL YEARS
(IN THOUSANDS)

| YEAR <br> ENDING <br> JUNE 30, | VALUATION <br> ASSETS | UNFUNDED <br> LIABILITIES | ACCRUED <br> LIABILITIES | FUNDED <br> RATIO |
| :---: | ---: | ---: | ---: | ---: |
| 2001 | 776,177 | $(221,790)$ | 554,387 | $140.0 \%$ |
| 2002 | 782,446 | $(150,208)$ | 632,238 | $123.8 \%$ |
| 2003 | 811,791 | $(102,493)$ | 709,298 | $114.4 \%$ |
| 2004 | 833,621 | $(37,846)$ | 795,775 | $104.8 \%$ |
| 2005 | 872,981 | $(9,190)$ | 863,791 | $101.1 \%$ |
| 2006 | 919,867 | 61,340 | 981,207 | $93.7 \%$ |
| 2007 | 940,126 | 170,675 | $1,110,801$ | $84.6 \%$ |
| 2008 | $1,207,026$ | 183,337 | $1,390,363$ | $86.8 \%$ |
| 2009 | $1,309,124$ | 275,169 | $1,584,293$ | $82.6 \%$ |
| 2010 | $1,382,144$ | 339,862 | $1,722,006$ | $80.3 \%$ |




CONTRIBUTION RATES
LAST TEN FISCAL YEARS

| YEAR <br> ENDING <br> JUNE 30, | AVERAGE <br> EMPLOYER <br> RATE | EMPLOYEE <br> RATE |
| :---: | ---: | ---: |
| 2001 | $1.88 \%$ | $8.50 \%$ |
| 2002 | $1.15 \%$ | $8.50 \%$ |
| 2003 | $1.71 \%$ | $8.50 \%$ |
| 2004 | $3.95 \%$ | $8.50 \%$ |
| 2005 | $4.07 \%$ | $8.50 \%$ |
| 2006 | $5.47 \%$ | $8.50 \%$ |
| 2007 | $4.46 \%$ | $7.96 \%$ |
| 2008 | $6.72 \%$ | $7.96 \%$ |
| 2009 | $8.65 \%$ | $7.96 \%$ |
| 2010 | $8.38 \%$ | $7.96 \%$ |



DISTRIBUTION OF BENEFIT RECIPIENTS BY LOCATION


MEMBERSHIP IN RETIREMENT SYSTEM
LAST TEN FISCAL YEARS

| YEAR <br> ENDING <br> JUNE 30, | ACTIVE | BENEFICIARY <br> RETIRED | TERMINATED <br> VESTED | TOTAL |
| :---: | ---: | ---: | ---: | ---: |
| 2001 | 11,047 | 1,040 | 199 | 12,286 |
| 2002 | 10,464 | 1,218 | 226 | 11,908 |
| 2003 | 10,964 | 1,363 | 174 | 12,501 |
| 2004 | 11,583 | 1,536 | 185 | 13,304 |
| 2005 | 11,752 | 1,733 | 196 | 13,681 |
| 2006 | 11,914 | 1,955 | 229 | 14,098 |
| 2007 | 12,780 | 2,123 | 233 | 15,136 |
| 2008 | 14,716 | 2,428 | 273 | 17,417 |
| 2009 | 14,580 | 2,591 | 1,476 | 18,647 |
| 2010 | 14,319 | 2,908 | 1,601 | 18,828 |



PRINCIPAL PARTICIPATING EMPLOYERS
LAST TEN FISCAL YEARS

| EMPLOYER | 2010 |  |  | 2001 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | COVERED EMPLOYEES | RANK | $\begin{array}{r} \% \text { OF } \\ \text { MEMBERSHIP } \end{array}$ | COVERED EMPLOYEES | RANK | $\begin{array}{r} \% \text { OF } \\ \text { MEMBERSHIP } \end{array}$ |
| State | 8,673 | 1 | 60.57\% | 9,092 | 1 | 82.30\% |
| Maricopa County | 2,030 | 2 | 14.18\% | 1,008 | 2 | 9.12\% |
| Courts Admin. Office | 2,021 | 3 | 14.11\% | - | - | - |
| Pima County | 463 | 4 | 3.23\% | 368 | 3 | 3.33\% |
| Pinal County | 272 | 5 | 1.90\% | - | - |  |
| Yavapai County | 159 | 6 | 1.11\% | 127 | 5 | 1.15\% |
| Yuma County | 154 | 7 | 1.08\% | 153 | 4 | 1.38\% |
| Coconino County | 88 | 8 | 0.61\% | 89 | 6 | 0.81\% |
| Mohave County | 86 | 9 | 0.60\% | 63 | 7 | 0.57\% |
| Gila County | 63 | 10 | 0.44\% | - | - | - |
| All Others | 310 |  | 2.16\% | 147 |  | 1.33\% |
| Total | 14,319 |  | 100.00\% | 11,047 |  | 100.00\% |

SUMMARY OF BENEFIT INCREASES
LAST TEN FISCAL YEARS

| YEAR <br> ENDING <br> JUNE 30, | EXCESS <br> YIELD PER <br> STATUTE | EXCESS <br> EARNINGS | UTILIZED TO <br> FUND COLA | EXCESS <br> EARNNGS <br> AVAILABLE | BENEFIT <br> INCREASE <br> 4\% CAP |
| :---: | ---: | ---: | ---: | ---: | ---: |
| 2001 | $0.00 \%$ | 0 | $(3,761,946)$ | $45,820,054$ | $4.00 \%$ |
| 2002 | $0.00 \%$ | 0 | $(4,650,770)$ | $34,452,064$ | $4.00 \%$ |
| 2003 | $0.00 \%$ | 0 | $(5,878,909)$ | $30,709,183$ | $4.00 \%$ |
| 2004 | $5.77 \%$ | $18,478,098$ | $(7,810,709)$ | $45,912,625$ | $4.00 \%$ |
| 2005 | $0.23 \%$ | 810,817 | $(9,545,626)$ | $41,415,092$ | $4.00 \%$ |
| 2006 | $0.00 \%$ | 0 | $(11,506,060)$ | $33,292,645$ | $4.00 \%$ |
| 2007 | $7.77 \%$ | $35,123,022$ | $(13,572,783)$ | $60,426,061$ | $4.00 \%$ |
| 2008 | $0.00 \%$ | 0 | $(15,533,554)$ | $40,633,678$ | $4.00 \%$ |
| 2009 | $0.00 \%$ | 0 | $(18,197,108)$ | $15,124,946$ | $4.00 \%$ |
| 2010 | $4.47 \%$ | $22,836,733$ | $(21,264,230)$ | $18,734,779$ | $4.00 \%$ |

SUMMARY OF GROWTH OF THE SYSTEM
LAST TEN FISCAL YEARS

| YEAR <br> ENDING <br> JUNE 30, | TOTAL <br> ASSETS <br> AT BOOK | INVESTMENT <br> REALIZE <br> EARNINGS | ASSUMED <br> ACTUARLAL <br> YIELD | NET <br> EFFECTIVE <br> YIELD | AVERAGE <br> EMPLOYER <br> RATE |
| :---: | ---: | ---: | ---: | ---: | ---: |
| 2001 | $631,618,088$ | $29,491,487$ | $9.00 \%$ | $4.96 \%$ | $1.88 \%$ |
| 2002 | $646,861,802$ | $11,656,015$ | $9.00 \%$ | $1.84 \%$ | $1.15 \%$ |
| 2003 | $587,318,350$ | $(60,384,405)$ | $9.00 \%$ | $-9.33 \%$ | $1.71 \%$ |
| 2004 | $615,695,876$ | $23,472,984$ | $9.00 \%$ | $3.98 \%$ | $3.95 \%$ |
| 2005 | $662,258,326$ | $43,327,649$ | $8.75 \%$ | $7.01 \%$ | $4.07 \%$ |
| 2006 | $744,246,872$ | $73,445,862$ | $8.50 \%$ | $11.18 \%$ | $5.47 \%$ |
| 2007 | $840,116,484$ | $90,731,938$ | $8.50 \%$ | $12.14 \%$ | $4.46 \%$ |
| 2008 | $1,108,093,837$ | $125,821,779$ | $8.50 \%$ | $13.50 \%$ | $6.72 \%$ |
| 2009 | $1,057,808,935$ | $(175,258,029)$ | $8.50 \%$ | $-13.04 \%$ | $8.65 \%$ |
| 2010 | $1,095,569,678$ | $(322,346)$ | $8.50 \%$ | $1.50 \%$ | $8.38 \%$ |

BENEFITS PAYABLE JUNE 30, 2010
BY TYPE OF BENEFIT

| PENSIONS <br> BEING PAID | NO. | ANNUAL <br> PENSIONS | AVERAGE <br> PENSIONS |
| :--- | ---: | ---: | ---: |
| RETIRED MEMBERS |  |  |  |
| Service Pensions | 2,363 | $60,741,300$ | 25,705 |
| Disability Pensions | 97 | $1,986,635$ | 20,481 |
| Total Retired Members | $\mathbf{2 , 4 6 0}$ | $\mathbf{6 2 , 7 2 7 , 9 3 5}$ | $\mathbf{2 5 , 4 9 9}$ |
|  |  |  |  |
| SURVIVORS OF MEMBERS | 408 | $6,471,818$ | 15,862 |
| $\quad$ Spouses |  |  |  |
| Children w/Guardians | 40 | 569,303 | 14,233 |
| Total Survivors of Members | $\mathbf{4 4 8}$ | $\mathbf{7 , 0 4 1 , 1 2 1}$ | $\mathbf{1 5 , 7 1 7}$ |
|  |  |  |  |
| TOTAL PENSIONS BEING PAID | $\mathbf{2 , 9 0 8}$ | $\mathbf{6 9 , 7 6 9 , 0 5 6}$ | $\mathbf{2 3 , 9 9 2}$ |


|  | AVERAGE <br> AGE | AVERAGE <br> SERVICE | AVG. AGE AT <br> RETIREMENT |
| :--- | ---: | ---: | ---: |
| Normal retired members | 63.3 | 19.3 | 57.1 |
| Disability retired members | 53.8 | 9.6 | 44.6 |
| Spouse beneficiaries | 63.6 | 11.6 | 51.9 |


| YEAR ENDING JUNE 30, | AVERAGE MONTHLY BENEFIT AMOUNTS LAST TEN FISCAL YEARS |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | YEARS OF CREDITED SERVICE BY CATEGORY |  |  |  |  |  |  |  |
|  |  | <5 | 5-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30+ | $\begin{array}{r} \text { ALL } \\ \text { MEMBERS } \end{array}$ |
| 2001 | Average monthly benefit |  |  |  |  |  |  |  | 1,077 |
|  | Average final average salary |  |  |  |  |  |  |  | 2,468 |
|  | Number of retirees |  |  |  |  |  |  |  | 1,040 |
| 2002 | Average monthly benefit |  |  |  |  |  |  |  | 1,208 |
|  | Average final average salary |  |  |  |  |  |  |  | 2,567 |
|  | Number of retirees |  |  |  |  |  |  |  | 1,218 |
| 2003 | Average monthly benefit |  |  |  |  |  |  |  | 1,324 |
|  | Average final average salary |  |  |  |  |  |  |  | 2,639 |
|  | Number of retirees |  |  |  |  |  |  |  | 1,363 |
| 2004 | Average monthly benefit |  |  |  |  |  |  |  | 1,425 |
|  | Average final average salary |  |  |  |  |  |  |  | 2,701 |
|  | Number of retirees |  |  |  |  |  |  |  | 1,536 |
| 2005 | Average monthly benefit |  |  |  |  |  |  |  | 1,507 |
|  | Average final average salary |  |  |  |  |  |  |  | 2,779 |
|  | Number of retirees |  |  |  |  |  |  |  | 1,733 |
| 2006 | Average monthly benefit |  |  |  |  |  |  |  | 1,589 |
|  | Average final average salary |  |  |  |  |  |  |  | 2,892 |
|  | Number of retirees |  |  |  |  |  |  |  | 1,955 |
| 2007 | Average monthly benefit |  |  |  |  |  |  |  | 1,675 |
|  | Average final average salary |  |  |  |  |  |  |  | 3,096 |
|  | Number of retirees |  |  |  |  |  |  |  | 2,123 |
| 2008 | Average monthly benefit | 1,093 | 998 | 1,028 | 1,467 | 2,055 | 2,934 | 3,506 | 1,753 |
|  | Average final average salary |  |  |  |  |  |  |  | 3,354 |
|  | Number of retirees | 122 | 158 | 554 | 391 | 849 | 288 | 66 | 2,428 |
| 2009 | Average monthly benefit | 1,155 | 1,080 | 1,079 | 1,596 | 2,227 | 3,311 | 4,019 | 1,900 |
|  | Average final average salary |  |  |  |  |  |  |  | 3,535 |
|  | Number of retirees | 126 | 164 | 614 | 400 | 930 | 290 | 67 | 2,591 |
| 2010 | Average monthly benefit | 1,208 | 1,133 | 1,131 | 1,669 | 2,308 | 3,397 | 4,189 | 1,999 |
|  | Average final average salary |  |  |  |  |  |  |  | 3,606 |
|  | Number of retirees | 132 | 172 | 671 | 438 | 1,078 | 335 | 82 | 2,908 |

* Detailed information not available prior to fiscal year ending June 30, 2008.


## SCHEDULE OF CHANGES IN REFUNDABLE MEMBER RESERVE BALANCES

FISCAL YEAR ENDED JUNE 30, 2010

| SYSTEM | $\begin{array}{r} 2009 \\ \text { BALANCES } \end{array}$ | RESERVE TRANSFERS | CONTRIBUTIONS RECEIVED | WITHDRAWN MEMBERS | BALANCES |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ADMINISTRATIVE OFFICE OF THE COURTS | 64,443,445 | $(4,279,751)$ | 8,661,010 | $(948,577)$ | 67,876,127 |
| APACHE COUNTY - Detention | 342,512 | $(24,290)$ | 55,372 | $(30,385)$ | 343,210 |
| CITY OF AVONDALE - Detentiom | 224,764 | 0 | 40,416 | 0 | 265,180 |
| CITY OF SOMERTON - Dispatchers | 121,640 | 0 | 21,834 | 0 | 143,475 |
| COCHISE COUNTY - Detention | 1,143,577 | $(108,035)$ | 182,058 | $(21,449)$ | 1,196,151 |
| COCONINO COUNTY - Detention | 1,473,226 | $(6,709)$ | 293,503 | $(58,399)$ | 1,701,621 |
| DEPARTMENT OF CORRECTIONS - Detention | 174,359,391 | $(10,725,019)$ | 28,858,656 | $(8,543,532)$ | 183,949,496 |
| DEPARTMENT OF PUBLIC SAFETY - Dispatchers | 0 | $(62,584)$ | 2,432,927 | $(50,030)$ | 2,320,313 |
| DEPT OF JUVENILE CORRECTIONS - Detention | 16,137,626 | $(1,451,715)$ | 2,300,579 | $(2,177,952)$ | 14,808,538 |
| GILA COUNTY - Detention | 725,105 | 966 | 184,264 | $(100,058)$ | 810,277 |
| GILA COUNTY - Dispatchers | 306,149 | (605) | 60,420 | $(32,954)$ | 333,010 |
| GRAHAM COUNTY - Detention | 300,915 | $(55,071)$ | 87,465 | 0 | 333,309 |
| GRAHAM COUNTY - Dispatchers | 138,012 | 0 | 30,329 | $(2,677)$ | 165,664 |
| MARICOPA COUNTY - Detention | 41,324,516 | $(1,681,483)$ | 7,443,791 | $(1,118,168)$ | 45,968,656 |
| MOHAVE COUNTY - Detention | 907,599 | (340) | 247,333 | $(89,952)$ | 1,064,639 |
| NAVAJO COUNTY - Detention | 692,711 | $(49,064)$ | 160,177 | $(90,804)$ | 713,020 |
| PIMA COUNTY - Detention | 10,546,755 | $(684,620)$ | 1,693,521 | $(333,091)$ | 11,222,566 |
| PINAL COUNTY - Detention | 4,374,527 | 21,366 | 1,122,625 | $(169,067)$ | 5,349,450 |
| PINAL COUNTY - Dispatchers | 285,033 | 0 | 86,986 | $(8,903)$ | 363,116 |
| SANTA CRUZ COUNTY - Detention | 271,440 | $(4,357)$ | 68,653 | $(30,601)$ | 305,134 |
| TOWN OF MARANA - Dispatchers | 205,323 | 0 | 48,537 | $(9,360)$ | 244,500 |
| TOWN OF ORO VALLEY - Dispatchers | 321,957 | 1,971 | 43,313 | $(62,658)$ | 304,584 |
| TOWN OF WICKENBURG - Dispatchers | 76,091 | 0 | 19,626 | 0 | 95,717 |
| YAVAPAI COUNTY - Detention | 2,681,866 | $(150,818)$ | 528,781 | $(70,961)$ | 2,988,868 |
| YAVAPAI COUNTY - Dispatchers | 173,370 | 0 | 41,949 | $(24,801)$ | 190,517 |
| YUMA COUNTY - Detention | 2,071,162 | $(215,718)$ | 500,119 | $(117,168)$ | 2,238,395 |
| TOTAL | 323,648,712 | $(19,475,875)$ | 55,214,242 | $(14,091,546)$ | 345,295,534 |

SCHEDULE OF CHANGES IN EMPLOYER RESERVE BALANCES AND UNFUNDED ACTUARIAL ACCRUED LIABILITIES

| SYSTEM | $\begin{aligned} & 2009 \\ & \text { BALANCES } \end{aligned}$ | RESERVE TRANSFERS | CONTRIB <br> REEEVIVD | $\begin{aligned} & \text { PENSION } \\ & \text { PAYMENTS } \end{aligned}$ | $\begin{gathered} \text { SUBSIDY } \\ \text { PAYMENTS } \end{gathered}$ | $\begin{aligned} & \text { ENHANGED } \\ & \text { RefuNDS } \end{aligned}$ | DIITT. OF EARNINGS | $\begin{aligned} & 2010 \\ & \text { BALANCES } \end{aligned}$ | UNFUNDED |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ADMINITRATIVE OFFICE OF THE COURTS | 105,090,105 | 4,671,557 | 6,093,701 | (6,994,147) | (201,497) | (388,650) | 22,806,510 | 131,079,579 | 79,450,050 |
| APACHECOUNTY- Detention | 619,823 | 24,290 | 55,768 | $(52,131)$ | 0 | $(5,683)$ | 128,494 | 770,560 | 110,005 |
| CITY Of Avondale- Detention | 145,971 | 0 | 834 | 0 | 0 | 0 | 53,48 | 88,292 | 8,778) |
| GITY OF SOMERTON - Dispathers | 98,39 | 0 | 24,824 | 0 | 0 | 0 | 32,111 | 155,32 | 23,877 |
| COCHISE COUNTY - Detention | 2,487,215 | 100,611 | 157,809 | (277,867) | $(5,059)$ | 0 | 480,937 | 2,943,646 | 667,401 |
| coconno counry - Detention | 1,962,57 | 1,063 | 236,614 | (8,425) | $(1,200)$ | (6,927) | ,031 | 2,634,713 | $(336856)$ |
| DePArTMent OF CORRECTIONS - Detention | 364,986,459 | 10,542,103 | 30,955,141 | $(40,116,939)$ | (1,681,134) | $(3,977,244)$ | 71,517,430 | 432,225,816 | 137,979,286 |
| departuent Of Publlc safety - Dispathers | 0 | 17,975 | 2,506,642 | (2,464) | 0 | $(2,356)$ | 328,234 | 2,983,032 | 0 |
| dept of uvenll correctoons - Detention | 35,950,973 | 1,357,639 | 2,296,079 | (3,968,512) | $(154,253)$ | (695,590) | 6,708,594 | 41,44,931 | 9,37,399 |
| GILA COUNTY - Detention | 1,014,219 | (826) | 153,574 | $(43,44)$ | (183) | $(25,160)$ | 240,670 | 1,388,950 | (291,544) |
| GIIA COUNTY - Dispathers | 9,923 | (209) | ,583 | (181) | 0 | $(17,128)$ | 288,56 | 39,644 | 22,974 |
| graham countr - Detention | 67,509 | 61,089 | 67,940 | $(7,078)$ | (2,580) | 0 | 134,696 | 864,576 | $(24,192)$ |
| GRAHAM COUNTY- Dispathers | 149,829 | 0 | 19,051 | 0 | 0 | 0 | 41,062 | 209,942 | (161,631) |
| MARICOPA COUNTY- Detention | 76,43,551 | 1,524,097 | 7,569,189 | (7,492,271) | (127,51) | (284,275) | 15,922,69 | 93,542,4 | 32,796,346 |
| MOHAVECOUNTY - Detention | 2,684,639 | 340 | 145,931 | $(146,021)$ | $(2,079)$ | (7,121) | 483,768 | 3,159,457 | (1,466,611) |
| NAVAJO COUNTY- Detention | 1,218,116 | 54,710 | 132,562 | $(54,97)$ | 0 | (37,760) | 259,710 | 1,572,341 | (103,431) |
| PIMA Countr - Detention | 25,036,13 | 469,6 | 1,943,28 | $(3,277,301)$ | (182,483) | (97, 53 ) | 664,289 | 28,56,370 | 14,572,033 |
| PINAL COUNTY- Detention | 5,920,201 | 128,658 | 913,603 | $(157,187)$ | $(4,687)$ | (33,81) | 1,478,597 | 8,445,804 | 22,78 |
| PINAL COUNTY - Dispathers | 463,832 | 0 | 74,546 | $(48,78)$ | 0 | 0 | 105,665 | 595,265 | 303,485 |
| SANTA CRUZ COUNTY- Detention | 1,182,00 | (1,134) | 40,8 | (90,042) | 0 | (22,102) | 189,236 | 1,298,866 | (551,966) |
| TOWN OF MARANA - Dispatchers | 131,524 | 0 | 30,488 | 0 | 0 | 0 | 49,043 | 211,056 | 69,995 |
| TOWN OF ORO VALLEY- Dispatchers | 476,368 | $(1,971)$ | 52,845 | $(56,59)$ | (1,800) | (22,311) | 102,225 | 548,7 | 553,654 |
| TOWN OF WICKENBURG - Dispatchers | 137,781 | 0 | 30,327 | $(15,510)$ | (140) | 0 | 30,884 | 182,942 | 180,626 |
| Yavapal COUNTY - Detention | 3,952,516 | 114,219 | 498,134 | (571,070) | (6,873) | $(11,58)$ | 897,175 | 4,872,583 | 1,961,957 |
| Yavapal COUNTY - Dispathers | 228,464 | 0 | 31,620 | 0 | 0 | 0 | 56,240 | 316,324 | (30,952) |
| YUMA COUNTY- Detention | 5,672,211 | 215,718 | 335,228 | (529,814) | (567) | $(50,988)$ | 1,030,770 | 6,672,578 | (896,596) |
| Total | 637,367,403 | 19,432,580 | 54,437,078 | $(64,039,673)$ | $(2,372,104)$ | (5,68,327) | 128,351,811 | 767,493,768 | 275,169,3 |

SCHEDULE OF CHANGES IN EMPLOYER EARNINGS DISTRIBUTION

| SYSTEM | $\begin{array}{r} 2009 \\ \text { EMPLOYER } \\ \text { RESERVE } \end{array}$ | $\begin{array}{r} 2010 \\ \text { EMPLOYER } \\ \text { RESERVE } \end{array}$ | $\begin{array}{r} 2009 \\ \text { MEMBER } \\ \text { RESERVE } \end{array}$ | $\begin{array}{r} 2010 \\ \text { MEMBER } \\ \text { RESERVE } \end{array}$ | COMBINED | $\begin{aligned} & \text { MEAN } \\ & \text { BALANCE } \end{aligned}$ | FACTOR | INVESTMENT EARNINGS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ADMINITTRATIVE OFFICE OF THE COURTS | 105,090,105 | 131,079,579 | 64,443,445 | 67,876,127 | 368,489,256 | 184,244,628 | 17.769\% | 22,806,510 |
| APACHECOUNTY - Detention | 619,823 | 770,560 | 342,512 | 343,210 | 2,076,105 | 1,038,053 | 0.100\% | 128,494 |
| CITY OF AVONDALE - Detentiom | 145,971 | 228,292 | 224,764 | 265,180 | 864,206 | 432,103 | 0.042\% | 53,487 |
| CIIY OF SOMERTON - Dispatchers | 98,389 | 155,325 | 121,640 | 143,475 | 518,829 | 259,414 | 0.025\% | 32,111 |
| COCHISE COUNTY - Detention | 2,487,215 | 2,943,646 | 1,143,577 | 1,196,151 | 7,770,590 | 3,885,295 | 0.375\% | 480,937 |
| COCONINO COUNTY - Detention | 1,962,557 | 2,634,713 | 1,473,226 | 1,701,621 | 7,772,117 | 3,886,058 | 0.375\% | 481,031 |
| DEPARTMENT OF CORRECTIONS - Detention | 364,986,459 | 432,225,816 | 174,359,391 | 183,949,496 | 1,155,521,162 | 577,760,581 | 55.720\% | 71,517,430 |
| DEPARTMENT OF PUBLIC SAFETY | 0 | 2,983,032 | 0 | 2,320,313 | 5,303,345 | 2,651,672 | 0.256\% | 328,234 |
| DEPT OF JUVENLLE CORRECTIONS - Detention | 35,950,973 | 41,494,931 | 16,137,626 | 14,808,538 | 108,392,068 | 54,196,034 | 5.227\% | 6,708,594 |
| GILA COUNTY - Detention | 1,014,219 | 1,338,950 | 725,105 | 810,277 | 3,888,551 | 1,944,275 | 0.188\% | 240,670 |
| GILA COUNTY - Dispatchers | 649,923 | 789,644 | 306,149 | 333,010 | 2,078,726 | 1,039,363 | 0.100\% | 128,656 |
| GRAHAM COUNTY - Detention | 677,509 | 864,576 | 300,915 | 333,309 | 2,176,308 | 1,088,154 | 0.105\% | 134,696 |
| GRAHAM COUNTY - Dispatchers | 149,829 | 209,942 | 138,012 | 165,664 | 663,447 | 331,724 | 0.032\% | 41,062 |
| MARICOPA COUNTY - Detention | 76,430,551 | 93,542,416 | 41,324,516 | 45,968,656 | 257,266,139 | 128,633,069 | 12.406\% | 15,922,697 |
| MOHAVECOUNTY - Detention | 2,684,639 | 3,159,457 | 907,599 | 1,064,639 | 7,816,335 | 3,908,167 | 0.377\% | 483,768 |
| NAVAJO COUNTY - Detention | 1,218,116 | 1,572,341 | 692,711 | 713,020 | 4,196,189 | 2,098,095 | 0.202\% | 259,710 |
| PIMA COUNTY - Detention | 25,036,139 | 28,556,370 | 10,546,755 | 11,222,566 | 75,361,830 | 37,680,915 | 3.634\% | 4,664,289 |
| PINAL COUNTY - Detention | 5,920,201 | 8,245,804 | 4,374,527 | 5,349,450 | 23,889,982 | 11,944,991 | 1.152\% | 1,478,597 |
| PINAL COUNTY - Dispatchers | 463,832 | 595,265 | 285,033 | 363,116 | 1,707,246 | 853,623 | 0.082\% | 105,665 |
| SANTA CRUZ COUNTY - Detention | 1,182,090 | 1,298,866 | 271,440 | 305,134 | 3,057,531 | 1,528,765 | 0.147\% | 189,236 |
| TOWN OF MARANA - Dispatchers | 131,524 | 211,056 | 205,323 | 244,500 | 792,403 | 396,201 | 0.038\% | 49,043 |
| TOWN OF ORO VALLEY - Dispatchers | 476,368 | 548,761 | 321,957 | 304,584 | 1,651,670 | 825,835 | 0.080\% | 102,225 |
| TOWN OF WIIKENBURG - Dispatchers | 137,781 | 182,942 | 76,091 | 95,717 | 492,531 | 246,265 | 0.024\% | 30,484 |
| YAVAPAI COUNTY - Detention | 3,952,516 | 4,872,583 | 2,681,866 | 2,988,868 | 14,495,833 | 7,247,916 | 0.699\% | 897,175 |
| Yavapal county - Dispatchers | 228,464 | 316,324 | 173,370 | 190,517 | 908,675 | 454,337 | 0.044\% | 56,240 |
| YUMA COUNTY - Detention | 5,672,211 | 6,672,578 | 2,071,162 | 2,238,395 | 16,654,346 | 8,327,173 | 0.803\% | 1,030,770 |
| TOTAL | 637,367,403 | 767,493,768 | 323,648,712 | 345,29,534 | 2,073,805,418 | 1,036,902,709 | 100.000\% | 128,351,811 |

## PARTICIPATING EMPLOYERS

DEPARTMENT OF CORRECTIONS
DEPARTMENT OF JUVENILE CORRECTIONS
DEPARTMENT OF PUBLIC SAFETY - DISPATCHERS

CITY OF AVONDALE - DETENTION OFFICERS
APACHE COUNTY - DETENTION OFFICERS
COCHISE COUNTY - DETENTION OFFICERS
COCONINO COUNTY - DETENTION OFFICERS
GILA COUNTY - DETENTION OFFICERS
GILA COUNTY - DISPATCHERS
GRAHAM COUNTY - DETENTION OFFICERS
GRAHAM COUNTY - DISPATCHERS
MARICOPA COUNTY - DETENTION OFFICERS
MOHAVE COUNTY - DETENTION OFFICERS
NAVAJO COUNTY - DETENTION OFFICERS
PIMA COUNTY - DETENTION OFFICERS
PINAL COUNTY - DETENTION OFFICERS
PINAL COUNTY - DISPATCHERS
SANTA CRUZ COUNTY - DETENTION OFFICERS
YAVAPAI COUNTY - DETENTION OFFICERS
YAVAPAI COUNTY - DISPATCHERS
YUMA COUNTY - DETENTION OFFICERS
CITY OF SOMERTON - DISPATCHERS
TOWN OF MARANA - DISPATCHERS
TOWN OF ORO VALLEY - DISPATCHERS
TOWN OF WICKENBURG - DISPATCHERS

THIS PAGE INTENTIONALLY BLANK

