## CORRECTIONS OFFICER RETIREMENT PLAN



## 27th COMPREHENSIVE ANNUAL FINANCIAL REPORT A PENSION TRUST FUND OFTHE STATE OF ARIZONA



FOR THE FISCAL YEAR ENDED JUNE 30, 2013

## 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-Seventh Comprehensive Annual Financial Report 

## For the Fiscal Year Ended

 June 30, 2013Prepared by the Staff of PSPRS

Public Safety Personnel Retirement System
3010 E. Camelback Road, Suite 200
Phoenix, AZ 85016
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## Government Finance Officers Association

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# Arizona Corrections Officer Retirement Plan 

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

June 30, 2012


Executive Director/CEO

Jeff Allen McHenry, Trustee
Richard J. Petrenka, Trustee
Randie A. Stein, Trustee
Lauren W. Kingry, Trustee
William C. Davis, Trustee

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James M. Hacking
Administrator
Ryan Parham
Jared A. Smout
Chief Investment Officer

December 12, 2013

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-seventh Comprehensive Annual Financial Report (CAFR) for the Corrections Officer Retirement Plan (CORP) for the fiscal year ended June 30, 2013 (FY'13), in accordance with the provisions of A.R.S. Section 38-883.

## The CORP's Funding Status

As of fiscal year-end, the financial status of the CORP, as reflected in its funding ratio, decreased from 67.8\% at June 30, 2012 to $66.9 \%$ at June 30,2013 . This decrease continues the funding ratio erosion that resumed four years ago following a modest improvement in FY '08 that interrupted six consecutive years of funding status decline. It is important to note that the FY' 13 decline in the funding ratio occurred, despite the fact that the CORP experienced a far-better-than-expected $10.64 \%$ rate of return on its invested assets.

The continuing funding ratio decline that began in FY 02 is due primarily to the asset value losses and negative rates of return that the Plan experienced in $\mathrm{FY}^{\prime} 01$ and $\mathrm{FY}^{\prime} 02$ ( $\$ 155.8$ million) coupled with the additional losses and negative rates of return the Plan experienced in $\mathrm{FY} Y^{\prime} 08$ and $\mathrm{FY} Y^{\prime} 09$ and then again in FY '12. The losses in $\mathrm{FY} Y^{\prime} 01$ and $\mathrm{FY}{ }^{\prime} 02$ were largely the result of a lack of investment diversification and an over-concentration in high technology and telecommunication stocks and bonds at a time when the "tech-telecom bubble" was deflating. The FY'08 and FY'09 losses were the result of the impact on the financial markets of the collapse of the U.S. housing market and the intense global recession that followed.

The FY'12 asset value loss was the result of two factors: first, weakness and volatility in the financial markets - especially the international equity markets - that resulted from weakness in the U.S. and global economies; and, second, an actual rate of return that was significantly less than the Plan's benchmark return $(2.89 \%)$ for the fiscal year.

A second factor that has also contributed significantly to the funding erosion was the downward revision in the Plan's actuarial assumption for investment return. (That assumption was reduced by the Board by one-half of $1 \%$ from $8.5 \%$ in FY ' 10 to $8.0 \%$ in $\mathrm{FY}^{\prime} 12$ and was reduced further to $7.8 \%$ for FY '13 in an attempt to more accurately reflect the System's long term investment returns.) Downward revision in this assumption reduces the projected rate of growth in Plan assets relative to the rate of growth in liability for benefits and that, in turn, diminishes the Plan's funding ratio (and adds to the employer contribution requirement). It should be noted that an over stated investment assumption will also adversely impact the Plan's funding ratio when less than expected returns are factored into the actuarial valuation.

How to move the Plan back to an annual pattern of steadily improving funding ratios remains the principal challenge facing the PSPRS System and its Board of Trustees. Although the System has no control or influence over the performance of the U.S. and global financial markets and the world economies, the Board has taken the initiative to fully diversify the System's financial market exposures to reduce overall risk and volatility.

It should be noted that the Plan's funding ratio decreased during fiscal years 2010 and 2011 even though the Plan had strong rates of return in those years ( $13.47 \%$ in $\mathrm{F}^{\prime} 10$ and $17.37 \%$ in $\mathrm{FY}^{\prime} 11$ ). The same thing happened again during $F Y^{\prime} 13$ when the rate of return was $10.64 \%$. This is because the CORP uses a seven year averaging process ("smoothing") to determine the fiscal year-end actuarial value of assets. Under this methodology, 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 succeeding six fiscal years. So, although one-seventh of the FY'13 10.64\% return is reflected in the Plan's fiscal year-end results, those results also reflect one-seventh portions of the $7.27 \%,-17.73 \%$ and $-0.79 \%$ returns that the CORP experienced during FY'08, FY'09 and FY' 12 respectively. Because the remainder of the FY'08, FY'09 and FY'12 investment losses will be factored into the Plan's funding ratios over the next several fiscal years, the forecast is that the Plan's funding will continue to deteriorate until the years of asset value losses drop out of the calculation of the funding ratio. While it is possible that this trend could be arrested, and perhaps reversed, by several consecutive years of much better-thanexpected rates of return, it is also possible that funded status deterioration could be exacerbated if the Arizona Supreme Court fails to uphold the statutory changes that were made by the 2011 pension reform bill (SB 1609) to diminish the so-called COLA formula.

Before the changes made by the pension reform bill, the CORP statutes required that in any year in which the Plan generated an investment return in excess of 9\%, one-half of any return over $9 \%$ had to be diverted into the CORP's Reserve for Future Benefit Increases ("The Reserve"). These Reserve assets were then used to finance life-time post-retirement adjustments payable to the Plan's eligible beneficiaries. However, whenever assets were allocated to the Reserve, those same assets were denied to the underfunded Plan and were not available to help fund the Plan's growing liabilities for benefits. If the Arizona Supreme Court overturns the pension reform bill's COLA changes, the System would have to revive and restore retroactively the old COLA formula. If that happens, it will have significantly adverse consequences for the financial status of the Plan and will further increase employer contribution requirements.

## Employer Contribution Rates

Any change in the CORP's June $30^{\text {th }}$ fiscal year-end funding ratio impacts the employer contribution rate as of the following July $1^{\text {st }}$. Since the Plan's FY'13 funding ratio declined, the CORP employers' contribution rates will increase as of July 1, 2014 (the start of employer FY'15). The CORP aggregate employer contribution rate will total $14.46 \%$, consisting of a $7.12 \%$ "normal cost" component (to cover the cost of future service to be performed by the covered employee groups) and a $7.34 \%$ component for the amortization of the unfunded actuarial accrued liability (which is related to service performed in the past).

As the Plan's funding ratio has eroded, the employer contribution requirements have been rising in large year-over-year increments. The employer aggregate rate crested at $8.65 \%$ of payroll in employer FY ' 09 . For the next two years, the aggregate rate remained relatively stable. But based on the Plan's FY'10, FY'11 and FY'12 results, the aggregate employer rate began to increase again, rising to $9.5 \%$ in employer $F Y^{\prime} 12,11.31 \%$ in employer $F Y^{\prime} 13$ and $13.68 \%$ in employer $F Y^{\prime} 14$. Given the further erosion in the Plan's funding status as of the end of $\mathrm{FY} \mathrm{Y}^{\prime} 13$, the aggregate employer rate is scheduled to increase to $14.46 \%$ of payroll during employer $\mathrm{FY}^{\prime} 15$. That represents a 78 basis point increase over the current employer FY'14 aggregate rate. This increase in the employer rate reflects the same combination of factors that have contributed to the funding ratio erosion, including the performance of the financial markets and the actuarial assumption revisions adopted by the Board, based on recommendations from the System's actuaries. With further erosion in the Plan's funding status expected to occur over the next several years, the forecast is that the employer contribution rates will continue to increase unless the Plan benefits from several consecutive years of far-better-than-expected investment returns. If the Arizona Supreme Court overturns the pension reform bill's statutory changes in the COLA formula, employer rates will rise even more.

## FY'13 Investment Results

As indicated above, the FY'13 PSPRS Plan investment return was $10.64 \%$. That was 56 basis points higher than the $10.08 \%$ benchmark return for the Plan and 279 basis points higher than the $7.85 \%$ actuarial assumed rate of return. Ten of the Plan's asset classes had positive returns for the fiscal year; the only exception was "Risk Parity" which had a $-1.17 \%$ return. In addition, all asset classes outperformed their respective benchmarks, except for "U.S. Equity," "Private Equity," "Risk Parity" and "Real Estate." However, U.S. Equity, Private Equity and Real Estate had strong positive returns for the year ( $21.26 \%, 13.25 \%$ and $7.73 \%$, respectively).

Going forward into CORP's fiscal year 2014, two points should be noted. First, the values of the Plan's legacy real estate, which consists primarily of residential property concentrated in Arizona and the Southwest U.S., are continuing to rise, thus creating opportunities to liquidate many of these properties at a gain and reallocate the proceeds into more diversified real estate exposures. Second, during FY'13 the new COLA formula authorized by the 2011 pension reform bill became effective; this new formula will result in a post-retirement benefit adjustment for eligible CORP beneficiaries as of July, 2014. That adjustment, which is roughly estimated to be less than $1 \%$, will absorb nearly $\$ 6.5$ million of the Plan's FY' 13 investment return.

## Conclusion

To improve the CORP's funded status and reduce the rate of increase in employer contribution rates, the System must generate, on a consistent basis, annual rates of return that meet or exceed the Plan's return expectations. In pursuit of that goal, PSPRS has gone through a complete restructuring of the way in which the System manages and invests its assets with a view to dramatically increasing asset allocation diversification and diversification within asset classes. In the process, the Plan's former heavy reliance on equities has declined considerably and so has the risk level. This is helping to limit asset value losses in down financial market cycles. In addition, as the Plan's portfolio managers demonstrate their ability to perform at, or above, expectations, increasing amounts of Plan assets will be committed to those portfolio relationships while assets are taken away from managers that have failed to perform as expected.

While today the CORP is far better positioned to weather the volatility of the financial markets and perform up to expectations over the long term, there are still serious risks over which we, as a Board of Trustees, have no control, such as fiscal grid-lock at the federal level in the U.S., economic malaise and financial market stagnation in Europe, and declining rates of economic growth in Asia and the emerging markets of Africa, Latin America, the Middle East and South and Southeast Asia. These risks are simply a consequence of the reality that Plan assets must be invested in the financial markets and cannot be totally immunized against the consequences of what happens when those financial markets perform poorly, as was demonstrated in $\mathrm{FY}^{\prime} 08$ and $\mathrm{FY}^{\prime} 09$ and again in $\mathrm{FY}{ }^{\prime} 12$.

As members of the PSPRS Board of Trustees, we intend to continue our efforts to secure the long-term financial integrity of the CORP 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 the PSPRS' members and we look forward to continuing to serve as Trustees for PSPRS.

Respectfully submitted,


Richard J. Petrenka, Member of the Board of Trustecs


Brian P. Tobin, Chairman
Gregory Ferguson, Vice Chair
Jeff Allen McHenry, Trustee
Richard J. Petrenka, Trustee
Randie A. Stein, Trustee
Lauren W. Kingry, Trustee
William C. Davis, Trustee

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James M. Hacking
Administrator

Ryan Parham
Chief Investment Officer

Jared A. Smout
Deputy Administrator

December 12, 2013

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-seventh 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, 2013. The Plan is a uniform statewide retirement system that provides retirement, disability and survivor benefits, post-retirement adjustments and health insurance premium 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, 2013 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, 2013 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 governmentsponsored 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 $\$ 138.3$ million this fiscal year. That was augmented by revenue from member contributions of $\$ 51.5$ million, and direct employer contributions (including Alternative Contributions) of $\$ 65.6$ million. Please refer to the Statistical Section for a ten-year history of revenues and expenses.

## Administrative and Investment Expenses

The CORP's FY'13 administrative and investment-related expenses totaled $\$ 14.6$ million. Administrative and investment expenses were approximately 89 basis points of the total assets managed. This is reasonable when compared with other public retirement systems. A dedicated staff and constantly improving internal technology and expertise has enabled management to keep costs reasonable.

## Investments

The total rate of return on the CORP assets for the fiscal year was $10.64 \%$ on a net of fees basis. This return was well above the System's $7.85 \%$ actuarial assumed rate of return; it was also above the Plan's benchmark return of $10.08 \%$ for the fiscal year. 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 the System. All Plan investments were held in trust by BNY Mellon, the System's custodian bank.

## Enacted Legislation

During FY'13, the State Legislature approved, and the Governor signed, SB1173 which made various changes to the CORP statutes including a provision to prohibit members from taking a loan against, or removing contributions from, their account prior to termination. It also allows the making of pension payments retroactively for a period of up to 180 days prior to the date of benefit application. Finally, it bars any health insurance premium subsidy for members who retire or become survivors (after the effective date of the bill) but who are subsequently reemployed and participate in employer-provided health insurance.

## Actuarial and Funding Information

Funding a retirement system on a sound actuarial reserve basis involves the accumula-tion 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 ordinary disability benefit protection was extended in FY'08 and a contribution rate of $7.96 \%$ for all other participants in the Plan. The Plan's additional funding comes from the realized and unrealized returns on the invested assets of the Plan and from the employer contribution that is expressed as a level percent of gross payroll and reset annually, depending on the actuarial valuation results for the employer's group that is participating in 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. Following modest improvement in $\mathrm{FY}^{\prime} 08$, the funding ratio started to deteriorate again in $\mathrm{FY}{ }^{\prime} 09$; this trend continued right through $\mathrm{FY}{ }^{\prime} 13$. The primary factor responsible for this negative trend has been the asset value losses that the Plan sustained as a result of poor financial market performance in FY'08, FY'09 and again in FY' 12 ; that poor performance yielded negative rates of return for the CORP. At June 30, 2013, the CORP's funding ratio was only $66.9 \%$-- down from $67.8 \%$ the year before. Given the System's seven year averaging of investment results (actuarial "smoothing"), much of the effect of the $\mathrm{FY}^{\prime} 08, \mathrm{FY} Y^{\prime} 09$ and FY ' 12 asset value losses is yet to be reflected in the funding ratio of the Plan; therefore, the expectation is that the funding ratio will continue to deteriorate further in the future until those asset value loss years drop out of the calculation of the actuarial value of assets. This trend, however, could be ameliorated or even reversed if the CORP has several successive years of superior investment returns.

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 $13.68 \%$. The aggregate rate that will take effect on July 1, 2014 based on the CORP's FY' 13 results will be $14.46 \%$. Further decline in the Plan's funding ratio will cause employer rates to rise even further in the future.

## Post Retirement Benefit Increases

State statutes long provided for an annual benefit increase for PSPRS Plan retirees (or their survivors) two years after retirement, regardless of age, or when the retiree (or survivor) attained age 55 and had been retired for a year. These increases were limited to four percent of the average benefit being paid at the end of the prior fiscal year. A benefit increase schedule demonstrating the effect of these provisions can be found in the Statistical Section of this CAFR.

These benefit adjustments were fully funded on a present value basis from the assets contained in the PSPRS Plan's Reserve for Future Benefit Increases. In any year in which the Plan generated a return in excess of 9\%, one-half of the return in excess of $9 \%$ was diverted to the Reserve and withheld from the underlying and underfunded Plan. However, the 2011 pension reform bill, SB 1609, changed all this.

As of May 31, 2011, the new law prohibited any further transfers of assets to the PSPRS Reserve. The assets remaining in the Reserve were used to finance a retiree benefit adjustment in $\mathrm{FY}^{\prime} 12$ and were exhausted after that. An entirely new post-retirement adjustment formula that was included in SB 1609 took effect on July 1, 2013. As a result, there will be a small retiree benefit adjustment in July, 2014 because the CORP investment return was in excess of the $10.50 \%$ threshold required by the new formula and because the Plan's funding ratio at June 30, 2013 was above the 60\% threshold level that the new formula also requires. In the future, this new formula is expected to provide periodic, but not annual, adjustments for retirees and the Plan's other beneficiaries.

## 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, 2012. This was the nineteenth consecutive year that the Plan has achieved this prestigious award. In order to be awarded a Certificate, 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.

We believe our FY'13 CAFR continues to meet the Certificate of Achievement Program's requirements. We are, therefore, 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 Plan's assets are managed and invested. (See the Board of Trustees' transmittal letter to the Governor that begins on page .) In addition, there were other developments and initiatives that are worthy of note. These included the following:
A. Integrating PSPRS Personnel Administration with the Requirements of Arizona Department of Administration (ADOA)

- Since PSPRS became subject to the State's Personnel System in September 2012, the PSPRS personnel manual has been revised so that all rules and policies are in-line with the State's Personnel System.
- With PSPRS now subject to ADOA's Managing Accountability and Performance (MAP) system, PSPRS supervisors are now monitoring employee performance to identify positive performance and poor performance where coaching may be necessary. This should assist in making the performance review process more dynamic and meaningful to each employee.
- PSPRS is in the process of enhancing its screening procedures when considering candidates for agency positions and has undertaken to secure a Governor's Office Executive Order that will authorize PSPRS to conduct credit and criminal background checks and require psychological, drug, and other forms of testing when considering candidates for supervisory and other sensitive positions.
B. Reorganizing the Investment Department and Enhancing its Operational Procedures
- The Investment Department has been reorganized with responsibilities reallocated among existing staff; the focus is now on monitoring existing external manager relationships with a much reduced need for new manager searches.
C. Reconfiguration of the Investment Department's Compensation Structure
- Given the Board's approval of the suspension of the Investment Department's Incentive Compensation Program and in recognition of the increased responsibilities assumed by the Department's personnel, recommendations are being formulated for modifications to the salary ranges for all job classifications, with adjustments to base pay where appropriate.
D. Internal Reorganization and Staffing
- Having re-incorporated the Health Insurance Department staff into the Retired Members Department, training is being provided so that more staff support is available for aiding retired members who have health and other types of insurance issues.
- With respect to the Investment Department, a new Deputy CIO for Risk has been hired who will enable the System managers to be more conscious of the risks to which the System's fund is exposed and to find ways to minimize the potential impact of those risks. In addition, a search is underway to screen qualified candidates to fill the position of in-house Investment Counsel.
E. Audits, Oversight and Follow-up Action
- The AZ Auditor General is expected to issue soon a report with respect to the methodology used in valuing some of the System's real estate assets and the values resulting from that methodology; modifications in the System's FY'12 financial statements will be made in order to conform with any recommendations contained in that report.
- The System's annual audit by Heinfeld Meech \& Co.was completed with no significant finding reported; the Internal Auditor is continuing monthly investments compliance reviews and is reviewing and approving all capital calls made with respect to investment commitments approved by the System.
F. Local Board Network Outreach and Support
- The System continued its comprehensive and multi-year effort to assure that the PRPRS and CORP 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. The programming necessary for the implementation of a web site for use by the local boards is underway; once implemented, it will enable the local boards to send new beneficiary data electronically and process benefit claim applications on line.
G. IT Operations and Program Development
- The Operations staff has upgraded the Denver back-up site servers and installed an Intrusion Prevention System on the Denver site firewall. The staff is also: 1) creating a test lab to mirror production using reclaimed servers from the Denver site; 2) setting up a new scanner for document imaging; 3) upgrading the inventory database and the mail server (to exchange 2013); 4) installing the latest version of Backup Exec; and 5) implementing a virtual server for the System's database.
- The IT Programming staff will be: 1) implementing the online retirement application process capability on the local board web site; and 2) completing the Record Retention Project, which includes a rewrite of the PSPRS procedural processes.
H. New Initiative
- The staff will complete the planning for, and the implementation of, the new EORP Defined Contribution Plan, using Nationwide Retirement Solutions initially as the 3rd Party Administrator.


## Conclusion

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 complate 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 contributed to the administrative operations 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 CORP to a state of financial soundness.

Respectfully submitted,


James M. Hacking
Administrator

## BOARD OF TRUSTEES

(AS OF JUNE 30, 2013)


Brian P. Tobin
Chairman


Gregory Ferguson
Vice Chairman


Jeff Allen McHenry
Trustee


Richard J. Petrenka
Trustee


Randie A. Stein
Trustee


Lauren W. Kingry
Trustee


William C. Davis
Trustee

## EXECUTIVE STAFF AND ORGANIZATIONAL CHART



Ryan Parham
Chief Investment Officer


James M. Hacking
Administrator

Jared A. Smout
Deputy Administrator


## PROFESSIONAL ADVISORS

| ALBOURNE AMERICA, LLC | International Alternative Investment Consultant |
| :--- | :--- |
| BNY MELLON ASSET SERVICING | Independent Investment Advisor |
| BUCK CONSULTING, LLC | Compensation Consultant |
| COOLEY LLP | Investment Counsel |
| ERNST \& YOUNG LLP | Investment Consultant |
| FOLEY \& LARDNER, LLC | Investment Counsel |
| FOSTER PEPPER | Investment Counsel |
| GABRIEL ROEDER SMITH \& COMPANY | Actuary |
| GOODWIN PROCTER | Legislative Liaison |
| HEINFELD, MEECH \& CO. | Independent Auditor |
| HIGHGROUND, INC | Legislative Liaison |
| JACKSON WALKER LLP | Investment Counsel |
| KUTAK ROCK LLP | General Counsel |
| LIGHT STONE SOLUTIONS, LLC | Due Diligence |
| NEPC, LLC | Independent Investment Advisor |
| OFFICE OF THE ATTORNEY GENERAL | General Counsel |
| ORG PORTFOLIO MANAGEMENT LLC | Real Estate Consultant |
| OSAM INC. | IT Counsel |
| PATRICE ROBINSON CONSULTING | IT Consultant |
| PILLSBURY | Investment Counsel |
| PUBLIC POLICY PARTNERS | Legislative Liaison |
| ROPES \& GRAY LLP | Investment Counsel |
| STEPSTONE GROUP LLC | Equity Advisors |
| STEPTOE \& JOHNSON, LLP | Litigation Counsel |

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.


HEINFELD, MEECH \& CO., P.C.
CPAs and Business Consultants

# INDEPENDENT AUDITORS' REPORT 

Board of Trustees
Public Safety Personnel Retirement System

## Report on the Financial Statements

We have audited the accompanying financial statements of Corrections Officer Retirement Plan (CORP), a pension trust fund of the State of Arizona, which comprise the Statement of Plan Net Position as of June 30, 2013, and the related Statement of Changes in Plan Net Position for the year then ended, and the related notes to the financial statements.

## Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

## Auditor's Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. 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 from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the CORP's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the CORP's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

## Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the plan net position of the Corrections Officer Retirement Plan, as of June 30, 2013, and the respective changes in its net position, for the year then ended in conformity with accounting principles generally accepted in the United States of America.

## Other Matters

Report on Prior Year Information
We have previously audited CORP's 2012 financial statements, and our report dated November 20, 2012, expressed an unmodified opinion on those financial statements.

## Required Supplementary Information

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

## Other Information

Our audit was conducted for the purpose of forming an opinion on the CORP's financial statements. The Introductory Section, Supporting Schedules Information, Other Supplementary Information, Investment Section, Actuarial Section and Statistical Section, as listed in the table of contents, are presented for purposes of additional analysis and are not a required part of the financial statements.

The Supporting Schedules Information and the 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 Supporting Schedules Information and the Other Supplementary 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 financial statements and, accordingly, we do not express an opinion or provide any assurance on them.

## Other Reporting Required by Government Auditing Standards

In accordance with Government Auditing Standards, we have also issued our report dated Deembe 12, 2013, 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 in considering the Corrections Officer Retirement Plan's internal control over financial reporting and compliance.

Heinfeed, meech \& Co., pec.
HEINFELD, MECH \& CO., PRC.
CPA and Business Consultants
December 12, 2013

## 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 2013 are as follows:

- The Corrections Officer Retirement Plan (CORP) had a total rate of return (net of fees) of $10.64 \%$ this year. Our total portfolio out performed the target fund benchmark by 56 basis points. This is an improvement from the prior year's return of $-0.79 \%$.
- The Future Benefit Increase Reserve was depleted in 2012 and received no excess earnings in 2013.
- Retirement benefits paid totaled $\$ 94.81$ million for the current year, compared to $\$ 87.98$ million for the previous year. This represents a $7.77 \%$ increase from the prior year.


## 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 Position and The Statement of Changes in Net Position

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 position and changes in them. Net position is the difference between assets and liabilities, one way to measure the financial health, or financial position. Over time, increases or decreases in the net position 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 Position and The Statement of Changes in Net Position.

## 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 FY2013 and FY2012. Following each schedule is a brief summary of the significant changes noted in these schedules.

## SUMMARY COMPARATIVE STATEMENTS OF PLAN NET POSITION

|  | As of 06/30/2013 | As of 06/30/2012 | Change | \%Change |
| :--- | ---: | ---: | ---: | ---: |
| Cash and Short-Term Investments | $\$ 29,639,900$ | $\$ 26,714,223$ | $\$ 2,925,677$ | $10.95 \%$ |
| Total Receivables | $5,117,432$ | $13,222,192$ | $(8,104,760)$ | $(61.30) \%$ |
| Total Investments | $1,379,625,470$ | $1,246,563,764$ | $133,061,706$ | $10.67 \%$ |
| Securities Lending Collateral | $43,752,548$ | $25,984,058$ | $17,768,490$ | $68.38 \%$ |
| Net Capital Assets | 645,015 | 654,291 | $(9,276)$ | $(1.42) \%$ |
| Total Plan Assets | $\mathbf{1 , 4 5 8 , 7 8 0 , 3 6 5}$ | $\mathbf{1 , 3 1 3 , 1 3 8 , 5 2 8}$ | $\mathbf{1 4 5 , 6 4 1 , 8 3 7}$ | $\mathbf{1 1 . 0 9 \%}$ |
| Accrued Accounts Payable | $1,912,740$ | $2,020,987$ | $(108,247)$ | $(5.36) \%$ |
| Investment Purchases Payable | $3,535,056$ | $2,979,876$ | 555,180 | $18.63 \%$ |
| Securities Lending Collateral | $43,752,548$ | $25,984,058$ | $\mathbf{1 7 , 7 6 8 , 4 9 0}$ | $\mathbf{6 8 . 3 8 \%}$ |
| Total Plan Liabilities | $\mathbf{4 9 , 2 0 0 , 3 4 4}$ | $\mathbf{3 0 , 9 8 4 , 9 2 1}$ | $\mathbf{1 8 , 2 1 5 , 4 2 3}$ | $\mathbf{5 8 . 7 9 \%}$ |
| Net Assets | $\mathbf{\$ 1 , 4 0 9 , 5 8 0 , 0 2 1}$ | $\mathbf{\$ 1 , 2 8 2 , 1 5 3 , 6 0 7}$ | $\mathbf{\$ 1 2 7 , 4 2 6 , 4 1 4}$ | $\mathbf{9 . 9 4 \%}$ |

## Summary Comparative Statements of Plan Net Assets Analysis

The total plan net position held in trust for benefits at June 30, 2013 were $\$ 1.41$ billion, a $9.94 \%$ increase from $\$ 1.28$ billion at June 30, 2012. The increase in net position is primarily due to favorable financial markets during the fiscal year. The increase in cash or decrease 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. *See Note 14.

SUMMARY COMPARATIVE STATEMENTS OF CHANGES IN PLAN NET POSITION

|  | 2013 | 2012 | Change | \% Change |
| :---: | :---: | :---: | :---: | :---: |
| ADDITIONS |  |  |  |  |
| Total Contributions | \$ 117,074,466 | \$ 109,020,723 | \$ 8,053,743 | 7.39\% |
| Net Investment Income | 138,267,533 | $(15,165,360)$ | 153,432,893 | 1,011.73\% |
| Transfers and Service Purchases | 184,576 | 368,484 | $(183,908)$ | (49.91)\% |
| Total Additions (Reductions) | 255,526,575 | 94,223,847 | 161,302,728 | 171.19\% |
| DEDUCTIONS |  |  |  |  |
| Benefits | 94,813,343 | 87,977,793 | 6,835,550 | 7.77\% |
| Service Transfers and Refunds | 32,020,128 | 26,707,547 | 5,312,581 | 19.89\% |
| Administrative Expenses | 1,266,690 | 1,182,692 | 83,998 | 7.10\% |
| Total Deductions | 128,100,161 | 115,868,032 | 12,232,129 | 10.56\% |
|  |  |  |  |  |
| Net Increase (Decrease) | 127,426,414 | $(21,644,185)$ | 149,070,599 | 688.73\% |
| Balance Beginning of Year - July 1 | 1,282,153,607 | 1,303,797,792 | $(21,644,185)$ | (1.66)\% |
| Balance End of Year - June 30 | \$ 1,409,580,021 | \$1,282,153,607 | \$127,426,414 | 9.94\% |

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

Employer and employee contributions for FY2013 increased $\$ 8.05$ million due to increased employee and employer contribution rates during fiscal year 2013.
For FY 2013, PSPRS recognized a net investment gain of $\$ 138.27$ million which compares to an $\$ 15.17$ million loss in the previous year. This $1,011.73 \%$ increase was due to the positive returns in the financial markets during the fiscal year.

Deductions from the PSPRS net position held in trust for benefits consist primarily of pension, disability, survivor benefits, member refunds and administrative expenses. For FY 2013, these deductions totaled $\$ 94.81$ million, an increase of $7.77 \%$ from the $\$ 87.98$ million paid during FY 2012 . Refunds and service transfers increased $\$ 5.31$ million over the prior year which equates to $19.89 \%$. 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 increased 7.10\%. *See Note 14.

## INVESTMENT ACTIVITIES



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 four years. As illustration, at the end of $\mathrm{FY} 07,72.8 \%$ of the entire investment portfolio was invested in equities versus $32.3 \%$ at the end of FY 2013 . Fixed income had remained about 19\% of the entire portfolio prior to being reduced to 11.1\% in FY2013. However, alternative investments have increased from 3.5\% in FY07 to 54.8\% in FY2013

At June 30, 2013, CORP held $\$ 454.86$ million in equities. The FY 2013 rate of return for Total CORP equities was $18.22 \%$ versus a benchmark rate of return of $18.07 \%$. At June 30, 2013, CORP held $\$ 156.19$ million in fixed income securities. The FY 2013 rate of return for CORP fixed income securities was $1.35 \%$ versus a benchmark rate of return of - $2.18 \%$. 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 Position" 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, 2013.
At June 30, 2013, the total funded status of the CORP decreased to $66.9 \%$ from $67.8 \%$ at FYE 2012. This decrease in funded status is related primarily to the seven year smoothing period with only $1 / 7$ of the investment gain from the FY2013 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 POSITION

JUNE 30, 2013 WITH COMPARATIVE TOTALS FOR 2012
JUNE 30, 2013
JUNE 30, 2012

## ASSETS

Cash and Short-Term Investments

RECEIVABLES

| Member Contributions | 857,932 | 724,497 |
| :--- | ---: | ---: |
| Employer Contributions | $\mathbf{1 , 2 0 3 , 9 2 0}$ | 871,209 |
| Interest and Dividends | $\mathbf{1 , 4 1 7 , 5 7 3}$ | $\mathbf{1 , 1 8 7 , 7 0 5}$ |
| Investment Sales | $\mathbf{1 , 6 2 5 , 7 3 1}$ | $10,429,796$ |
| Other | 12,276 | 8,985 |
| Total Receivables | $\mathbf{5 , 1 1 7 , 4 3 2}$ | $\mathbf{1 3 , 2 2 2 , 1 9 2}$ |

INVESTMENTS AT FAIR VALUE (NOTES 2 AND 3)
U.S. Equity

Non U.S. Equity
GTAA
Fixed Income
Credit Opportunities
Private Equity
Real Assets
Real Estate
Absolute Return
Risk Parity
Total Investments

Securities Lending Collateral

CAPITAL ASSETS (NOTE 4)

| Land | 86,588 | 86,588 |
| :--- | ---: | ---: |
| Building | 661,246 | 648,990 |
| Funiture, Fixtures \& Equipment | 202,387 | 188,615 |
| Total Capital Assets | $\mathbf{9 5 0 , 2 2 1}$ | $\mathbf{9 2 4 , 1 9 3}$ |
| Accumulated Depreciation | $(305,206)$ | $(269,902)$ |
| Net Capital Assets | $\mathbf{6 4 5 , 0 1 5}$ | $\mathbf{6 5 4 , 2 9 1}$ |
| TOTAL PLAN ASSETS | $\mathbf{1 , 4 5 8 , 7 8 0 , 3 6 5}$ | $\mathbf{1 , 3 1 3 , 7 6 3 , 8 3 1}$ |

LIABILITIES

| Accrued Accounts Payable | $1,912,740$ | $2,020,987$ |
| :--- | ---: | ---: |
| Investment Purchases Payable | $3,535,056$ | $2,979,876$ |
| Securities Lending Collateral | $43,752,548$ | $\mathbf{2 5 , 9 8 4 , 0 5 8}$ |
| Total Plan Liabilities | $\mathbf{4 9 , 2 0 0 , 3 4 4}$ | $\mathbf{3 0 , 9 8 4 , 9 2 1}$ |
| NET POSITION HELD IN TRUST FOR PENSION BENEFITS | $\mathbf{1 , 4 0 9 , 5 8 0 , 0 2 1}$ | $\mathbf{1 , 2 8 2 , 7 7 8 , 9 1 0}$ |
| NET POSITION RESERVES |  |  |
| Refundable Members' Reserve | $\mathbf{3 8 3 , 8 9 4 , 0 2 8}$ | $\mathbf{3 7 3 , 8 3 5 , 8 0 1}$ |
| Employers' Reserve | $\mathbf{1 , 0 2 5 , 6 8 5 , 9 9 3}$ | $\mathbf{9 0 8 , 3 1 7 , 8 0 6}$ |
| Future Benefit Increase Reserve | $\mathbf{- 1 , 4 0 9 , 5 8 0 , 0 2 1}$ | $\mathbf{\$ 1 , 2 8 2 , 1 5 3 , 6 0 7}$ |
| Total Net Position Reserves |  |  |

*Fair Value of Real Estate for FY2012 was reduced by $\$ 4,825,340$. See Note 14.
The accompanying notes are an integral part of these financial statements.

## STATEMENT OF CHANGES IN PLAN NET POSITION

FISCAL YEAR ENDING 2013 WITH COMPARATIVE TOTALS FOR 2012

2013
2012

| ADDITIONS |  |  |
| :---: | :---: | :---: |
| Contributions |  |  |
| Members' Contributions (notes 2,5) | \$ 50,648,775 | \$ 51,967,894 |
| Employers' Contributions (NOTES 2,5) | 65,407,507 | 56,056,555 |
| Members' Service Purchase | 814,501 | 850,866 |
| Alternate Employer Contributions | 203,683 | 145,408 |
| Total Contributions | 117,074,466 | 109,020,723 |
| Investment Income |  |  |
| From Investment Income |  |  |
| Net Appreciation (Depreciation) in Fair Value of Investments (NOTES 2,3) | 124,825,292 | $(26,801,870)$ |
| Interest | 1,247,455 | 2,759,487 |
| Dividends | 10,168,614 | 9,802,634 |
| Other Income | 15,177,032 | 4,790,299 |
| From Securities Lending Activities |  |  |
| Securities Lending Activities (NOTE 3) |  |  |
| Securities Lending Income | 45,804 | 88,481 |
| Borrower Rebates | 210,973 | 249,950 |
| Agents Share of Income | $(38,318)$ | $(50,486)$ |
| Net Securities Lending Income | 218,459 | 287,945 |
| Total Investment Income (Loss) | 151,636,852 | $(9,161,505)$ |
| Less Investment Expense | $(13,369,319)$ | $(6,003,855)$ |
| Net Investment Income (Loss) | 138,267,533 | $(15,165,360)$ |
| Transfers Into System | 184,576 | 368,484 |
| Total Additions (Reductions) | 255,526,575 | 94,223,847 |
| DEDUCTIONS |  |  |
| Pension Benefits (NOTE 2) | 93,179,451 | 85,684,902 |
| DROP Benefits (NOTE 2) | 1,633,892 | 2,292,891 |
| Refunds To Terminated Members (NOTE 2) | 31,179,499 | 25,743,514 |
| Administrative Expenses | 1,266,690 | 1,182,692 |
| Transfers Out of System | 840,629 | 964,033 |
| Total Deductions | 128,100,161 | 115,868,032 |
| NET INCREASE (DECREASE) | 127,426,414 | $(21,644,185)$ |
| NET POSITION HELD IN TRUST FOR PENSION BENEFITS |  |  |
| Beginning of Year, July 1 | 1,282,153,607 | 1,303,797,792 |
| End of Year, June 30 | \$ 1,409,580,021 | \$ 1,282,153,607 |

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 an agent 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, 2013 and 2012, the number of participating local government employer groups was:

| GROUP | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 2}$ |
| :--- | ---: | ---: |
| County AOC | 15 | 15 |
| Cities | 1 | 1 |
| Detention | 14 | 13 |
| Dispatchers | 8 | 8 |
| State Agencies | 3 | 3 |
| Total Employers | $\mathbf{4 1}$ | $\mathbf{4 0}$ |

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, 2013 and 2012, statewide CORP membership consisted of::

|  | RETIREMENT PLAN |  | INSURANCE SUBSIDY |  |
| :--- | ---: | ---: | ---: | ---: |
| MEMBERSHIP TYPE | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 2}$ |
| Retirees | 3,810 | 3,476 | 2,027 | 1,934 |
| Terminated Vested | 1,463 | 1,101 | - | - |
| Current Vested | 4,646 | 4,586 | - | - |
| Current Non-Vested | 9,934 | 10,405 | - | - |
| Total Members | $\mathbf{1 9 , 8 5 3}$ | $\mathbf{1 9 , 5 6 8}$ | $\mathbf{2 , 0 2 7}$ | $\mathbf{1 , 9 3 4}$ |

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

Employees who became a member of the Plan on or before December 31, 2011, an average of your highest thirty-six (36) consecutive months of salary within the last ten ( 10 ) years (i.e., 120 months) of service. A.R.S. § 38-881(7).

Employees who become a member of the Plan on or after January 1, 2012, an average of your highest sixty ( 60 ) consecutive months of salary within the last ten (10) years (i.e., 120 months) of service.

Salary means the base salary, shift differential, military and holiday pay paid a member for personal services rendered in a designated position to a participating employer on a regular monthly, semi-monthly or biweekly payroll basis. Salary includes amounts that are subject to deferred compensation for tax shelter agreements. 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(41).

BENEFIT INCREASE / COST OF LIVING ADJUSTMENT (COLA)
A retired member or survivor of a retired member may receive a benefit increase if monies are available (See A.R.S. § $38-905$ ). However, effective July 1, 2013 (A.R.S. § $38-905.02$ ) and each July 1 thereafter, as long as there are no monies left to pay under the old benefit increase structure (See A.R.S. § 38 - 905 ), a benefit increase will be issued as long as the following criteria have been met:

- Retired members who became a member on or before December 31, 2011, or the survivor of a retired member, was receiving benefits on or before July 31 of the two previous years, OR was 55 or older on July 1 of the current year and receiving benefits on or before July 31 of the previous year.
- Retired members who became a member on or after January 1,2012 , or the survivor of a retired member, was 55 or older on July 1 of the current year and is receiving benefits, $O R$ the retired member was under 55 on July 1 of the current year, was receiving an accidental disability retirement benefit and was receiving benefits on or before July 31 of the two previous years, OR a survivor was under 55 on July 1 of the current year, is the survivor of a member who was killed in the line of duty and was receiving benefits on or before July 31 of the two previous years.

The increase will be calculated based on (if there are insufficient earnings to cover the maximum increases, the percentage increase is limited to the earnings available):

- If the ratio of the actuarial value of assets to liabilities is $60-64 \%$ and the total return is more than $10.5 \%$ for the prior fiscal year, $2 \%$ maximum increase to all eligible retirees and survivors.
- If the ratio of the actuarial value of assets to liabilities is $65-69 \%$ and the total return is more than $10.5 \%$ for the prior fiscal year, $2.5 \%$ maximum increase to all eligible retirees and survivors.
- If the ratio of the actuarial value of assets to liabilities is $70-74 \%$ and the total return is more than $10.5 \%$ for the prior fiscal year, $3 \%$ maximum increase to all eligible retirees and survivors.
- If the ratio of the actuarial value of assets to liabilities is $75-79 \%$ and the total return is more than $10.5 \%$ for the prior fiscal year, $3.5 \%$ maximum increase to all eligible retirees and survivor.
- If the ratio of the actuarial value of assets to liabilities is $80 \%$ or more and the total return is more than $10.5 \%$ for the prior fiscal year, $4 \%$ maximum increase to all eligible retirees and survivors

From and after December 31, 2015, legislature may enact permanent one-time benefit increases after an analysis of the effect of the increase on the Plan by the Joint Legislative Budget Committee (JLBC). A.R.S. § 38-905.03.

## CONTRIBUTIONS

Contribution rates through June 30, 2014 for all non-dispatchers shall contribute $8.41 \%$ and all full-time dispatchers shall contribute $7.96 \%$ of salary to the Plan on a pre-tax basis by payroll deduction. The contribution rate for members will change each fiscal year. A.R.S. § $\S 8-891(\mathrm{H})$. A member may not, under any circumstance, borrow from, take a loan against or remove contributions from the member's account before the termination of membership in the plan or the receipt of a pension. A.R.S. §38-891(B).

## 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(11).

## DEATH BENEFITS - ACTIVE MEMBER

Spouse's Pension. The surviving spouse of an active member will receive a Spouse's Pension each month for lifetime. The Spouse's Pension 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, OR

Guardian Benefit. If there is no surviving spouse, or the pension of the surviving spouse is terminated, and there is at least one (1) eligible child, a Guardian Benefit of $40 \%$ (based on the member's average monthly salary) may be paid to the guardian of the (unmarried) child(ren) each month until each child turns 18, or under 23 years of age only during any period that the (unmarried) child is a full-time student. An eligible Child's Pension shall become payable directly to the eligible child when the eligible child reaches the age of 18 , if the person remains eligible to receive the pension and is not subject to a guardianship or conservatorship due to disability or incapacity. 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. $\S 38-904(\mathrm{~B}), 0 \mathrm{R}$

Balance of Contributions. If there is no surviving spouse or eligible child(ren), the member's named beneficiary on file will receive two (2) times the member's contributions. If the surviving beneficiary does not claim the benefit, the Local Board has the authority to pay the member's nearest of kin, or estate. A.R.S. §§ $38-904$ (A and B) and 38-904(A).

## DEATH BENEFITS - INACTIVE MEMBER

Balance of Contributions. If the member was inactive, the member's named beneficiary on file will receive two (2) times the member's contributions. If the surviving beneficiary does not claim the benefit, the Local Board has the authority to pay the member's nearest of kin, or estate. A.R.S. §§ 38-881(27) and 38-904(A).

## DEATH BENEFITS - RETIRED MEMBER

Spouse's Pension. If married for at least two (2) consecutive years at the time of the member's death, the surviving spouse will receive a Spouse's Pension each month for lifetime based on $80 \%$ of the member's pension benefit. A.R.S. § $88-887,0$ R

Guardian Benefit. If there is no surviving spouse, or the pension of the surviving spouse is terminated, and there is at least one (1) eligible child, a Guardian Benefit of $80 \%$ (based on the member's pension) may be paid to the guardian of the (unmarried) child(ren) each month until each child turns 18, or under 23 years of age only during any period that the (unmarried) child is a full-time student. An eligible Child's Pension shall become payable directly to the eligible child when the eligible child reaches the age of 18 , if the person remains eligible to receive the pension and is not subject to a guardianship or conservatorship due to disability or incapacity. 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(B), 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 the surviving beneficiary does not claim the benefit, the Local Board has the authority to pay the member's nearest of kin, or estate. A.R.S. §§ 38-889 and 38-904(A).

## 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 and 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. For members with a membership date on or before December 31, 2011, the monthly benefit is $50 \%$ of the member's average monthly compensation. (There is no credited service requirement.) For members with a membership date on or after January 1,2012 with less than 25 years of credited service, the monthly benefit is $50 \%$ of the member's average monthly compensation. For members with 25 or more years of credited service, the monthly benefit is $62.5 \%$ of the member's average monthly compensation. 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.

## TOTAL AND PERMANENT (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. For members with a membership date on or before December 31, 2011, the monthly benefit is $50 \%$ of the member's average monthly compensation. (There is no credited service requirement.) For members with a membership date on or after January 1,2012 with less than 25 years of credited service, the monthly benefit is $50 \%$ of the member's average monthly compensation. For members with 25 or more years of credited service, the monthly benefit is $62.5 \%$ of the member's average monthly compensation. 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. $\S \S 38-881$ (30) and 38-886.01.

Eligibility for an ordinary disability will be determined by the Local Board upon an independent medical examination. The monthly benefit is a percentage of normal retirement based on the employee's years of credited service divided by twenty ( 20 ) for membership on or before December 31, 2011 (except a full-time dispatcher, the service requirement is 25 years), or twenty-five (25) for membership on or after January 1, 2012. 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.

DIVORCE / DOMESTIC RELATIONS ORDER
If the member has been involved in a divorce(s), please provide the CORP with a complete copy of the Divorce Decree(s) and any attachments or exhibits if referenced in the Decree(s). Upon receipt, additional correspondence will be provided to the parties. If the retirement account is required to be split, a Domestic Relations Order (DRO) will need to be prepared. To ensure that the language in the DRO is acceptable, it is recommended to provide the CORP with a draft copy of the DRO for review and approval prior to submitting it to the court. A.R.S. §38-910.

## REVERSE DEFERRED RETIREMENT OPTION PLAN (REVERSE DROP)

Beginning July 1, 2006 and 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 (based on service and age) applicable to a membership date that is either prior to, or after January 1,2012 (who is not awarded an accidental, ordinary or total and permanent disability pension). 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 is the first day of the month immediately following completion of required credited service, or a date not more than sixty (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 five (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.
*If participating in Reverse DROP, the member's service cannot be less than service required for normal retirement (based on service and age) applicable to a membership date that is either prior to, or after January 1, 2012. In other words, service must be greater than 24/25, respectively, in order to receive a Reverse DROP benefit.

Pursuant to statute, the Reverse DROP option will no longer be available after June 30, 2016
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 forty (40) hours per week, or as defined by statute. A.R.S. § 38-881(13):

- 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. § $\$ 8-842$, 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

Pursuant to A.R.S. §§ 38-906, 38-651.01 and 38-782, retirees and survivors under the Plan that elect group health insurance and/or accident insurance coverage through the Arizona State Retirement System group plan (ASRS), the Arizona Department of Administration (ADOA) group plan, or a group plan through an employer of the CORP, the Plan will pay up to the following Premium Benefit amount:

| 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
Employees who became a member on or before December 31, 2011, pursuant to A.R.S. § $38-884$, upon termination of employment (for any reason other than death or retirement) within twenty (20) days after filing an application with the CORP, the member will receive a lump-sum payment (less mandated tax withholding) of accumulated contributions (less any benefits paid or any amounts owed to the Plan) - thus, forfeiting all membership rights and credited service in the Plan upon receipt of refund of contributions. If the member has five (5) 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.
Employees who became a member on or after January 1, 2012, pursuant to A.R.S. § $38-884(\mathrm{E})$, upon termination of employment (for any reason other than death or retirement) within twenty ( 20 ) days after filing an application with CORP, shall receive a lump-sum payment of ONLY their accumulated contributions plus interest at a rate determined by the board (currently 3\%) as of the date of termination (less any benefits paid or any amounts owed to the Plan) - thus, forfeiting all membership rights and credited service in the Plan upon receipt of refund of contributions. The member will NOT receive the additional percentage of contributions as stated above.

Note: Arizona Revised Statutes do not allow a CORP member to borrow against your retirement account. A refund of your contributions can only be paid to you upon termination of your employment with the CORP employer.

## 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 the department as a designated position if the position is filled by an employee who has at least five (5) years of credited service under the Plan, is transferred to temporarily fill the position, provides a written request to the local board (within 90 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 state department of corrections, or the department of juvenile corrections may specify a designated position within the department as a nondesignated position if the position is filled by an employee who has at least five years of credited service under the Arizona State Retirement System and who provides a written request to the local board (within 90 days of being transferred) to specify the position as a non-designated position. When the employee leaves the position, the position reverts to a designated position. A.R.S. § 38-891(F).
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

Employees who became a member on or before December 31, 2011:
Normal Retirement. Pursuant to A.R.S. $\S \S 38-881(7,11,27,28,41$ and 43 ) and $38-885$, retirement benefits will commence the first day of month following termination of employment and based upon the following:

- 20 years of credited service but less than 25 years of credited service, or 80 points (age plus credited service) if membership date is on/after $8 / 9 / 01: 50 \%$ of the member's average monthly salary plus $2 \%$ of member's average monthly salary multiplied by each year of credited service over 20 (include fractional years).
- 25 years of credited service for dispatchers, or 80 points (age plus credited service) if membership date is on/after $8 / 9 / 01$ : $50 \%$ of the member's average monthly salary plus $2.5 \%$ of member's average monthly salary multiplied by each year of credited service over 20 (include fractional years). (12-years maximum so that the benefit does not exceed the $80 \%$ of the average monthly salary)
- 20 years of service but less than 20 years of credited service, or 80 points if membership date is on/after $8 / 9 / 01$ : Member's average monthly salary multiplied by each year of credited service (include fractional years) multiplied by $2.5 \%$.
- 80 points (age plus credited service) if membership date is PRIOR to $8 / 9 / 01$ : Member's average monthly salary multiplied by each year of credited service (include fractional years) multiplied by $2.5 \%$ (maximum $75 \%$ of average monthly salary).
- Age 62 with 10 years of service but less than 20 years of credited service: Member's average monthly salary multiplied by each year of credited service (include fractional years) multiplied by $2.5 \%$.
Note: The maximum pension is capped at $80 \%$ of the average monthly salary (which a person would receive at 32 years of credited service).
Deferred Annuity. Inactive members (not making contributions to the Plan) that have at least ten (10) years of credited service may elect to receive a Deferred Annuity at the age of sixty-two (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(A).

Employees who became a member on or after January 1, 2012:
Normal Retirement. Pursuant to A.R.S. $\S \S 38-881(7,11,27,28,41$ and 43$)$ and $38-885$, retirement benefits will commence the first day of month following termination of employment and based upon the following:

- Age 62 with 10 years of service: $62.5 \%$ of the member's average monthly salary plus $2.5 \%$ of the average monthly salary multiplied by each year of credited service over 25 (include fractional years).
- Age 52.5 with 25 or more years of credited service: $62.5 \%$ of the member's average monthly salary plus $2.5 \%$ of the average monthly salary multiplied by each year of credited service over 25 (include fractional years).
- Age 52.5 with 25 years of service but less than 25 years of credited service: Average monthly salary multiplied by the member's total credited service multiplied by 2.5\%.

Employees who became a member on or after January 1, 2012 are not eligible for a "Deferred Annuity." However, a member who attains the service requirement for a normal retirement, but does not meet the age requirement, may elect to leave contributions on account until reaching the age requirement and then elect to receive a retirement benefit (survivor benefits, benefit increases, or the group health insurance subsidy). A.R.S. §38-911(B).

## RETURN TO WORK AFTER RETIREMENT

A retired member may become re-employed and continue to receive a pension if the employment occurs twelve (12) months or more after retirement. The retired member shall not contribute to the fund and shall not accrue credited service. A.R.S. § 38-884(K).

If a retired member becomes employed by an employer in a designated position before twelve (12) 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. § $38-884(\mathrm{~K})$.
If you are receiving an accidental or total and permanent disability retirement (and have not reached normal retirement) and have become employed by an employer under the Plan, your disability retirement will cease. However, your local board will need to review and determination your return to work eligibility. If benefits are suspended and upon eligibility for (re)retirement, the service from the disabilty retirement will be considered "service" and not "credited" service and your average monthly compensation will be based on the compensation from the new employment. A.R.S. § $\S 8-886$ (D and G).

If a retired member returns to work in any capacity in a designated position ordinarily filled by an employee, the employer is required to pay an alternate contribution rate to the CORP. The current alternate contribution rate is 6.18\%. A.R.S. § 38-891.01.
Effective July 20, 2011, the premium benefit (subsidy) will not apply if the retired member or survivor is reemployed and participates in health care coverage provided by the member's or survivors new employer. A.R.S. §38-906(D).

## 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. (Form 18). Members with at least ten (10) years of credited service with the Plan may purchase up to sixty (60) 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 (A). Active members may also receive credited service limited to sixty (60) months if ordered/volunteered to active military service while working for the current employer if the criteria is met pursuant to A.R.S. $\S 38-907$. The member shall pay the members contributions, upon which the employer shall make employer contributions. If member performs military service due to presidential call-up, the employer shall make the employer and employee contributions not to exceed forty-eight (48) months pursuant to A.R.S.38-907 (G). For more information, contact your employer.

Purchase of Prior Service from an Out-of-State Agency. (Form COSS). Active members with at least five (5) years of credited service with the Plan 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 up to sixty ( 60 ) months of 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 (2) 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 one (1) year from the date of reemployment. A.R.S. § $38-884(I)$. (Form (1B), OR

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. § 38-884(J). (Form (2).

Purchase of Service Between the Arizona Retirement Plans/Systems. (Form U2). 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. $\S \S 38-896$, and 43-1022.

## TRANSFERS

Transfer of Contributions Between CORP Employers. (Form (1A). 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. (Form U2). 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. (Form U2A). 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. §§ 38923 and 38-924.

CONTINGENT LIABILITIES
The System is a party in various litigation matters. While the final outcome cannot be determined at this time, management is of the opinion that the final outcome will be favorable or the final obligation, if any, for these legal actions will not have a material adverse effect on the System's financial position or results of operations.

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 $\$ 68,918,508$ for FYE 2013 and $\$ 38,880,876$ for FYE 2012. This calculation is independent of the calculation of the change in the fair value of investments and may include unrealized amounts from prior periods.

## NEW ACCOUNTING PRONOUNCEMENT

GASB Statement No. 63. Financial Reporting of Deferred Outflows of Resources, Deferred Inflows of Resources, and Net Position, was issued and is effective for periods beginning after December 15, 2011. There is no effect on the CORP financial statements.

## 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 30,2013. 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, 2013, as collateral:

| Description | CPN | Maturity | Market Value |  | Description |  | CPN | Maturity | Market Value |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| FN AR9197 | $3.00 \%$ | $3-1-2043$ | $4,266,706$ |  | FN AE0215 | $4.00 \%$ | $12-1-2039$ | $6,990,942$ |  |
| FN T5899 | $3.00 \%$ | $6-1-2043$ | 325,169 |  | FN AE0385 |  | $4.00 \%$ | $9-1-2040$ | $13,485,729$ |
| FN AB6848 | $3.00 \%$ | $11-1-2042$ | $2,266,667$ |  | TOTAL |  |  | $\mathbf{2 8 , 1 1 5 , 4 8 4}$ |  |

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, 2013:

|  | REPORTED AMOUNT | BANK BALANCE |
| :--- | ---: | ---: |
| Pension Trust Fund | $\$ 26,855,301$ | $\$ 26,855,301$ |
| Operating Fund | $2,784,599$ | $2,784,599$ |
| Total Deposits | $\mathbf{\$ 2 9 , 6 3 9 , 9 0 0}$ | $\mathbf{\$ 2 9 , 6 3 9 , 9 0 0}$ |

## INVESTMENTS

CORP investments are reported at Fair Value. Fair Values are determined as follows: Short-term investments are reported at cost plus accrued interest. 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 value as determined by fixedincome broker/dealers plus accrued interest. Investments in hedge funds are valued monthly at the last reported valuations. Limited partnership investments in credit opportunities, private equity, real assets and real estate are valued on a quarterly or monthly basis at last reported valuations adjusted by any subsequent cash flows.
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. $\S 38-848$. 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 30,2013 , the fair value of the PSPRS Trust and the allocation for each system and plan was as follows:

| PLAN | UNITIZED | PERCENT |
| :--- | ---: | ---: |
| PSPRS | $5,495,283,314$ | $76.22 \%$ |
| CORP | $1,405,983,893$ | $19.50 \%$ |
| EORP | $308,517,628$ | $4.28 \%$ |
| TRUST TOTAL | $\mathbf{7 , 2 0 9 , 7 8 4 , 8 3 5}$ | $\mathbf{1 0 0 . 0 0} \%$ |

## 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, 2013, 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, 2013, the Plan's fixed income assets that were not government guaranteed represented $94.9 \%$ 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 Baa3/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 $\mathrm{A}-1 / \mathrm{P}-1$ 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, 2013 | \% OF ALL FIXED <br> INCOME ASSETS | WEIGHTED <br> AVG. CREDIT |
| :--- | ---: | :---: | :---: |
| Corporate Bonds | $143,669,495$ | $96.90 \%$ | AA |
| Mortgages | - | $0.00 \%$ | BBB |
| CBO | $4,522,719$ | $3.10 \%$ | Below BBB |
| TOTAL | $\mathbf{\$ 1 4 8 , 1 9 2 , 2 1 4}$ | $\mathbf{1 0 0 . 0 0 \%}$ |  |

RATINGS DISPERSION DETAIL

| CREDIT RATING LEVEL | CORPORATE BONDS | MORTGAGES | CBO |
| :--- | ---: | ---: | ---: |
| AAA | - | - | - |
| AA | $1,455,381$ | - | - |
| A | $4,915,827$ | - | - |
| BBB | $7,470,801$ | - | - |
| Below BBB | $1,958,227$ | - | $2,115,808$ |
| Not Rated | $127,869,259$ | - | $2,406,911$ |
| Total | $\mathbf{\$ 1 4 3 , 6 6 9 , 4 9 5}$ | $\mathbf{\$ -}$ | $\$ 4,522,719$ |

## 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 | $<\mathbf{1}$ | $\mathbf{1 - 5}$ | $\mathbf{6 - 1 0}$ | $\mathbf{1 1 - 1 5}$ | $\mathbf{1 6 - 2 0}$ | $>\mathbf{2 0}$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Corporate | - | $5,670,798$ | $5,581,389$ | 558,571 | 379,654 | $131,479,083$ |
| Agencies | - | - | - | - | $4,298,716$ | $3,695,037$ |
| Mortgages | - | - | - | - | - | - |
| CBO | - | - | $2,406,911$ | - | - | $\mathbf{2 , 1 1 5 , 8 0 8}$ |
| Total | $\mathbf{\$ -}$ | $\mathbf{\$ 5 , 6 7 0 , 7 9 8}$ | $\mathbf{\$ 7 , 9 8 8 , 3 0 0}$ | $\mathbf{\$ 5 5 8 , 5 7 1}$ | $\mathbf{\$ 4 , 6 7 8 , 3 7 0}$ | $\mathbf{\$ 1 3 7 , 2 8 9 , 9 2 8}$ |

CALLABLE BONDS BY SECURITY TYPE
(INCLUDING GOVERNMENT GUARANTEED SECURITIES)

| FIXED INCOME <br> SECURITY TYPE | FAIR VALUE <br> JUNE 30, 2013 | \% OF ALL FIXED <br> INCOME ASSETS |
| :--- | ---: | ---: |
| Corporate | 975,007 | $0.62 \%$ |
| Agencies | - | $0.00 \%$ |
| Totals | $\mathbf{\$ 9 7 5 , 0 0 7}$ | $\mathbf{0 . 6 2 \%}$ |

## 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 CORP is allowed to invest part of its assets in foreign investments.

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

| FOREIGN CURRENCY RISK |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| CURRENCY | SHORT TERM | FIXED INCOME | EQUITY | OTHER | TOTAL |  |
| AUSTRALIAN DOLLAR | 4,612 | - | $10,065,587$ | - | $10,070,199$ |  |
| BRAZIL REAL | 2,052 | - | 258,921 | - | 260,973 |  |
| CANADIAN DOLLAR | $(325,009)$ | - | $12,734,099$ | - | $12,409,090$ |  |
| DANISH KRONE | 3,829 | - | $1,474,275$ | - | $1,478,104$ |  |
| EURO CURRENCY UNIT | 452,372 | - | $35,825,795$ | $31,226,798$ | $67,504,965$ |  |
| HONG KONG DOLLAR | $1,773,616$ | - | $3,749,218$ | - | $5,522,834$ |  |
| ISRAELI SHEKEL | 16,345 | - | 596,286 | - | 612,631 |  |
| JAPANESE YEN | 176,635 | - | $28,600,582$ | - | $28,777,217$ |  |
| MEXICAN NEW PESO | 2,499 | - | 189,910 | - | 192,409 |  |
| NEW TAIWAN DOLLAR | 20,690 | - | 192,699 | - | 213,389 |  |
| NEW ZEALAND DOLLAR | 1,303 | - | 189,114 | - | 190,417 |  |
| NORWEGIAN KRONE | 26,147 | - | $1,418,513$ | - | $1,444,660$ |  |
| POUND STERLING | 97,290 | - | $26,335,189$ | $7,091,959$ | $33,524,438$ |  |
| SINGAPORE DOLLAR | 21,914 | - | $1,979,168$ | - | $2,001,082$ |  |
| SWEDISH KRONA | 76,071 | - | $3,963,304$ | - | $4,039,375$ |  |
| SWISS FRANC | $(354,432)$ | - | $10,718,933$ | - | $10,364,501$ |  |
| TOTAL MARKET VALUE | $\mathbf{1 , 9 9 5 , 9 3 4}$ | - | $\mathbf{1 3 8 , 2 9 1 , 5 9 3}$ | $\mathbf{3 8 , 3 1 8 , 7 5 7}$ | $\mathbf{1 7 8 , 6 0 6 , 2 8 4}$ |  |

## 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 $\$ 592,577$ at June 30,2013 consisting of U.S. Equity (loss of $\$ 598,808$ ) and Risk Parity (gain of $\$ 6,231)$. Interest risk associated with these investments are included in the tables on page 35.

## 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 30,2013 the fair value of securities on loan was $\$ 42,513,284$ and the collateral was $\$ 43,752,548$ 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 30,2013 , the weighted average maturity was 60 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 $\$ 1,503,974$ has been recorded as CORP's share.

| ASSET CLASS | OUT ON LOAN | TOTAL AVAILABLE <br> TO LOAN | \% OF AVAILABLE <br> TO LOAN |
| :--- | ---: | ---: | ---: |
| Equities | $41,096,018$ | $84,099,566$ | $48.87 \%$ |
| Agencies | - | - | - |
| Treasuries | - | - | - |
| Exchange Traded | $1,417,266$ | $2,326,033$ | $60.93 \%$ |
| Totals | $\mathbf{4 2 , 5 1 3 , 2 8 4}$ | $\mathbf{8 6 , 4 2 5 , 5 9 9}$ | $\mathbf{4 9 . 1 9 \%}$ |

## VALUATION PROCESS FOR NON-EXCHANGE TRADED INVESTMENTS

The Public Safety Personnel Retirement System does not value any non-publicly traded assets. All of the System's non-publicly-traded assets are managed by external managers, who value the investments under their management in accordance with their established valuation policies, which may include discounted cash flow methodologies (such as purchase offers) or market comparable pricing is otherwise unavailable or appears imprudent to employ. Upon receipt of an external manager's valuation of assets under its management, that valuation is provided to the System's custodian bank which then reflects the valuation on the System's books of account.

## 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, 2013 was $\$ 35,304$.

The table below is a schedule of the capital asset account balances as of June 30,2013, and June 30, 2012, and changes to those account balances during the year ended June 30, 2013.

## SCHEDULE OF CAPITAL ASSET ACCOUNT BALANCES

| LAND | BUILDING AND <br> IMPROVEMENTS | FURNITURE, <br> FIXTURES <br> AND EQUIPMENT | TOTAL <br> CAPITAL ASSETS |
| ---: | ---: | ---: | ---: |
| 86,588 | $\$ 648,990$ | $\$ 188,615$ | $\$ 924,193$ |
| - | 12,256 | 13,773 | 26,029 |
| - | - | - | - |
| $\mathbf{8 6 , 5 8 8}$ | $\mathbf{6 6 1 , 2 4 6}$ | $\mathbf{2 0 2 , 3 8 7}$ | $\mathbf{9 5 0 , 2 2 2}$ |

ACCUMULATED DEPRECIATION

| Balance June 30, 2012 | - | $(125,525)$ | $(144,377)$ | $(269,902)$ |
| :--- | ---: | ---: | ---: | ---: |
| Additions | - | $(19,053)$ | $(16,251)$ | $(35,304)$ |
| Deletions | - | - | - | - |
| Balance June 30, 2013 | - | $\mathbf{( 1 4 4 , 5 7 8 )}$ | $\mathbf{( 1 6 0 , 6 2 8 )}$ | $(\mathbf{3 0 5 , 2 0 6 )}$ |
| Net Capital Assets | $\mathbf{\$ 8 6 , 5 8 8}$ | $\mathbf{\$ 5 1 6 , 6 6 8}$ | $\mathbf{\$ 4 1 , 7 5 9}$ | $\mathbf{\$ 6 4 5 , 0 1 6}$ |

## 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 23 year period. Beginning July 1, 2007, the minimum employer contribution rate was established at $6 \%$.

During the year ended June 30,2013 , contributions totaling $\$ 118,886,017$ ( $\$ 68,237,242$ employer [ $\$ 60,042,614$ pension and $\$ 8,194,628$ health insurance subsidy contributions in excess of the benefits paid] and $\$ 50,648,775$ member) were made in accordance with contribution requirements determined by an actuarial valuation of the Plan as of June 30, 2011. The employer contributions consisted of approximately $\$ 39,035,805$ for normal cost $[\$ 33,670,912$ pension and $\$ 5,364,893$ health insurance subsidy] plus $\$ 29,201,437$ for amortization of the actuarial accrued liability in aggregate [ $\$ 26,371,702$ pension and $\$ 2,829,735$ health insurance subsidy]. Employer contributions represented $11.31 \%$ of covered payroll [ $6.47 \%$ for normal costs ( $6.08 \%$ pension and $0.39 \%$ health insurance) and $4.84 \%$ for amortization of assets in excess of the actuarial accrued liability in aggregate (4.01\% pension and $0.83 \%$ 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:

| Less than one year of service | $0 \%$ |
| :--- | ---: |
| One year but less than two | $20 \%$ |
| Two years but less than three | $40 \%$ |
| Three years but less than four | $60 \%$ |
| Four years but less than five | $80 \%$ |
| Five years or more | $100 \%$ |

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.

FINANCIAL SECTION

## 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 No. 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 $\S 401(\mathrm{~h})$ 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 FY2013 contributions collected for the health insurance subsidy amounted to $\$ 8,194,628$ and the health benefit subsidy payments were $\$ 2,829,735$. The excess contributions of $\$ 5,364,893$ were added to the retirement plan for reporting purposes. Effective FY2008, each participating employer is required by GASB Statement $N$ 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 $\$ 7.7$ million 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 |  |  | ANNUAL | UAAL ASA \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ACTUARIAL | VALUE OF |  |  |  |  |  |
| ASSETS | ACCRUED |  |  |  |  |  |
| LIABILITY | UNFUNDED | FAL(UAAL) | FUNDED | COVERED | OF COVERED |  |
| VALUATION | (A) | (B) | (B-A) | (A/B) | PAYROLL | PAYROLL |
| DATE | (C) | ((B-A)/C) |  |  |  |  |
| $6 / 30 / 2013$ | $1,559,583$ | $2,236,693$ | 677,110 | $69.70 \%$ | 604,068 | $112.10 \%$ |

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, 2013
Actuarial Cost Method: Entry Age Normal
Amortization Method: Level Percent of Payroll, Closed
Remaining Amortization Period: }23\mathrm{ years closed for unfunded accrued actuarial liability
Asset Valuation Method: 7-Year Smoothed Market Value,80%/120% Market
Investment Rate of Return: 7.85%
Projected Salary Increases: 4.50% to 7.75% which includes inflation at 4.50%
```

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.

NOTE 12: GASB 67
The GASB has issued Statement No. 67, "Financial Reporting for Pension Plans; an amendment of GASB Statement No. 25 " This Statement replaces the requirements of Statements №. 25 and №. 50 related to pension plans that are administered through trusts or equivalent arrangements. The requirements of Statements $N o .25$ and No. 50 remain applicable to pension plans that are not administered through trust or equivalent arrangements. The requirements of this Statement are effective for financial statements for fiscal years beginning after June 15, 2013.

## NOTE 13: PENDING LAWSUITS

There are four pending lawsuits challenging reforms, effected by Senate Bill 1609 in 2011, to the Public Safety Personnel Retirement System and the other plans it administers. All four lawsuits were filed in the Superior Court of Arizona in Maricopa County. Two were brought by, respectively, retired and active judges challenging changes to the Elected Officials' Retirement Plan (EORP); the other two were brought by, respectively, retired and active law-enforcement officers challenging changes to the PSPRS plan. However, the outcome of each lawsuit will certainly have ramifications for all plans. One of the lawsuits against EORP was ruled not in EORP's favor and has been appealed to the Arizona Supreme Court where oral arguments were heard on June 4, 2013. We are still awaiting the ruling. The three other lawsuits have been stayed pending the outcome of the one being appealed.

NOTE 14: RESTATEMENT OF NET ASSETS AND EMPLOYER RESERVE BALANCES
For year ended June 30,2012 , changes to the methodology determining the fair value of the Real Estate portfolio resulted in a reduction of $\$ 4,825,340$. This change is reflected in a reduction of Net Appreciation which reduced the Employer Reserve by $\$ 4,825,340$. All schedules presenting a balance for FY 2012 reflect the reduction.

## REQUIRED SUPPLEMENTARY INFORMATION

## SCHEDULE OF FUNDING PROGRESS

(IN THOUSANDS)

| ACTUARIAL VALUATION DATE | $\begin{array}{r} \text { ACTUARIAL } \\ \text { VALUE OF } \\ \text { ASSETS } \\ \$(A)^{*} \end{array}$ | ACTUARIAL <br> ACCRUED <br> LIABILITY <br> (AAL) AT <br> ENTRY AGE $\$(B)^{*}$ | UNFUNDED AAL (EXCESS) (UAAL) $\$(B-A)^{*}$ | FUNDED RATIO (A/B) | COVERED PAYROLL \$ (C) | UAAL AS A PERCENTAGE OF COVERED PAYROLL ((B-A)/C)) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 06-30-04 | 833,621 | 795,775 | $(37,846)$ | 104.8\% | 381,942 | (9.9)\% |
| 06-30-05 | 872,981 | 906,025 | 33,044 | 96.4\% | 404,156 | 8.2\% |
| 06-30-06 | 919,867 | 981,207 | 61,340 | 93.7\% | 437,743 | 14.0\% |
| 06-30-07 | 940,126 | 1,061,811 | 121,685 | 88.5\% | 515,428 | 23.6\% |
| 06-30-08 | 1,207,026 | 1,336,662 | 129,636 | 90.3\% | 642,621 | 20.2\% |
| 06-30-09 | 1,309,124 | 1,515,563 | 206,439 | 86.4\% | 630,825 | 32.7\% |
| 06-30-10 | 1,382,144 | 1,648,733 | 266,589 | 83.8\% | 616,481 | 43.2\% |
| 06-30-11 | 1,466,750 | 1,914,464 | 447,715 | 76.6\% | 609,243 | 73.5\% |
| 06-30-12 | 1,512,989 | 2,140,662 | 627,673 | 70.7\% | 626,223 | 100.2\% |
| 06-30-13 | 1,559,583 | 2,236,693 | 677,110 | 69.7\% | 604,068 | 112.1\% |

* Entry Age Normal Cost method through 6-30-05. Projected Unit Credit method from 6-30-06 through 6-30-10. Entry Age Normal since 6-30-11.
* 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, 80.3\% for 2010, $73.0 \%$ for $2011,67.8 \%$ for 2012 and $66.9 \%$ for 2013.
* See Notes to the Schedules of Required Supplementary Information.


## SCHEDULE OF EMPLOYER CONTRIBUTIONS

## EMPLOYER CONTRIBUTIONS

| FISCAL <br> YEAR <br> ENDED <br> JUNE 30, | ANNUAL <br> REQUIRED <br> CONTRIBUTIONS | PERCENTAGE <br> CONTRIBUTED |
| :---: | ---: | ---: |
| 2004 | $14,555,335$ | $100.00 \%$ |
| 2005 | $16,291,914$ | $100.00 \%$ |
| 2006 | $24,028,050$ | $100.00 \%$ |

[^0]*Total Employer Contributions received during FY2009 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 FY2010 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.
* Total Employer Contributions received during FY2011 were $\$ 52,002,731$. 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 $\$ 8,074,426$. The benefits paid for the health insurance subsidy were $\$ 2,699,129$. The difference between the calculated annual required contributions and the benefits paid of $\$ 5,375,297$ were then added back to the annual required contributions for the retirement plan. This required calculation resulted in a percent contributed of $105.5 \%$ for the retirement plan.
* Total Employer Contributions received during FY2012 were $\$ 58,946,996$. 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 $\$ 8,371,142$. The benefits paid for the health insurance subsidy were $\$ 2,890,441$. The difference between the calculated annual required contributions and the benefits paid of $\$ 5,480,701$ were then added back to the annual required contributions for the retirement plan. This required calculation resulted in a percent contributed of $105.2 \%$ for the retirement plan.
* Total Employer Contributions received during FY2012 were $\$ 68,237,242$. 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 $\$ 8,194,628$. The benefits paid for the health insurance subsidy were $\$ 2,829,735$. The difference between the calculated annual required contributions and the benefits paid of $\$ 5,364,893$ were then added back to the annual required contributions for the retirement plan. This required calculation resulted in a percent contributed of 104.3\% 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, 2013

The entry age normal 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. A closed 23-year amortization period were used for the June 30, 2013 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 $7.85 \%$ per year, compounded annually (net of investment expenses). Projected salary increase assumptions are based on $4.50 \%$ to $7.75 \%$, which include a price inflation assumption of $4.50 \%$ per year.

The Actuarial Standards of Practice require that the Funding Value of Assets fall within a reasonable range around the Market Value. Although some actuarial judgment is used to determine what is deemed 'reasonable', a ratio approaching $140 \%$ is on the high end. We recommend that consideration be given to establishing an asset corridor for the June 30, 2013 actuarial valuation. An asset corridor, sometimes called a "Collar", is a limitation on the amount by which the Funding Value is permitted to differ from Market Value. A corridor of $20 \%$ to $25 \%$ is a common standard, although many systems have relaxed their standards in response to the extraordinary events of late 2008 and early 2009. It is not anticipated that this change would have any immediate impact on the contribution rate as the Funding Value of Assets was within $15 \%$ of the Market Value. However, implementing this now would protect the System from having the Funding Value of assets stray too far away (either below or above) from the true value of assets in the fund. The actuary recommends that a $20 \%$ corridor be added to the Funding Value of Assets Calculation.

Each of the 27 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 2013 were determined by actuarial valuations as of June 30, 2011.

## SCHEDULE OF CHANGES IN RESERVE BALANCE

|  | REFUNDABLE MEMBERS' RESERVE | EMPLOYERS' RESERVE | FUTUR | RE BENEFIT INCREASE RESERVE |
| :---: | :---: | :---: | :---: | :---: |
| BALANCE AS OF JUNE 30, 2011 | \$ 358,456,820 | \$ 945,340,972 | \$ | S |
| DISTRIBUTION OF REVENUES AND EXPENSES |  |  |  |  |
| Members' Contributions | 51,967,894 |  |  |  |
| Employers' Contributions |  | 59,092,404 |  |  |
| Earnings (Loss) on Investments Net of Investment Expenses |  | $(15,165,360)$ |  |  |
| Pension and Insurance Benefits |  | $(90,868,234)$ |  |  |
| Refunds to Terminated Members | $(17,452,728)$ | $(8,290,786)$ |  |  |
| Administrative Expenses |  | $(1,182,692)$ |  |  |
| DISTRIBUTION OF TRANSFERS |  |  |  |  |
| Excess Investment Earnings to be used for Future Benefit Increases |  |  |  |  |
| Earnings (Loss) on Excess Investment Earnings Account Assets |  |  |  |  |
| Amount Utilized by Benefit Increases Granted |  |  |  |  |
| Net Transfers In (Out) and Purchase of Service Credits | 630,423 | $(375,106)$ |  |  |
| Balances Transferred to Employers' Reserve due to Retirement | $(19,766,608)$ | 19,766,608 |  |  |
| BALANCE AS OF JUNE 30, 2012 | 373,835,801 | 908,317,806 |  | - |
| DISTRIBUTION OF REVENUES AND EXPENSES |  |  |  |  |
| Members' Contributions | 51,463,275 |  |  |  |
| Employers' Contributions |  | 68,440,925 |  |  |
| Earnings (Loss) on Investments Net of Investment Expenses |  | 138,267,533 |  |  |
| Pension and Insurance Benefits |  | $(97,643,078)$ |  |  |
| Refunds to Terminated Members | $(20,401,566)$ | $(10,777,932)$ |  |  |
| Administrative Expenses |  | $(1,266,690)$ |  |  |
| DISTRIBUTION OF TRANSFERS |  |  |  |  |
| Excess Investment Earnings to be used for Future Benefit Increases |  |  |  |  |
| Earnings (Loss) on Excess Investment Earnings Account Assets |  |  |  |  |
| Amount Utilized by Benefit Increases Granted |  |  |  |  |
| Net Transfers In (Out) and Purchase of Service Credits | $(355,280)$ | $(300,773)$ |  |  |
| Balances Transferred to Employers' Reserve due to Retirement | $(20,648,202)$ | 20,648,202 |  |  |
| BALANCE AS OF JUNE 30, 2013 | \$383,894,028 | \$ 1,025,685,993 | \$ | S |

*See Note 14.

SCHEDULE OF RECEIPTS AND DISBURSEMENTS
FOR THE YEARS ENDED JUNE 30, 2013 AND 2012

|  | 2013 | 2012 |
| :---: | :---: | :---: |
| RECEIPTS |  |  |
| Members' Contributions | \$ 50,515,340 | \$ 53,114,089 |
| Employers' Contributions | 65,278,479 | 57,241,294 |
| Interest | 1,235,410 | 2,923,819 |
| Dividends | 9,950,791 | 9,929,874 |
| Other Income | 15,173,741 | 4,803,017 |
| Securities Lending Income | 214,579 | 313,155 |
| Transfer In | 184,576 | 368,484 |
| Service Purchase | 814,501 | 850,866 |
| Maturities and Sales of: |  |  |
| U S Equity | 50,445,686 | 43,134,049 |
| NON-U S Equity | 59,160,564 | 30,799,083 |
| GTAA | 8,234,336 | 43,152,694 |
| Fixed Income | 28,972,892 | 129,166,781 |
| Absolute Return | 5,897,409 | 1,031,809 |
| Credit Opportunities | 39,692,984 | 26,283,230 |
| Private Equity | 12,499,137 | 41,983,051 |
| Real Assets | 16,488,584 | 82,072,791 |
| Real Estate | 6,622,095 | 10,601,463 |
| Risk Parity | 4,726,465 | - |
| Total Receipts | 376,107,569 | 537,769,549 |
| DISBURSEMENTS |  |  |
| Pension Benefits | 93,179,451 | 85,684,902 |
| Refunds to Terminiated Members | 31,179,499 | 25,743,514 |
| Drop Benefits | 1,633,892 | 2,292,891 |
| Investment and Administrative Expenses | 14,744,256 | 6,998,772 |
| Transfer Out | 840,629 | 964,033 |
| Acquisitions of: |  |  |
| US Equity | 4,537,286 | 40,500,797 |
| NON-U S Equity | 56,301,758 | 51,302,515 |
| GTAA | 3,211,601 | 42,068,046 |
| Fixed Income | 10,228,648 | 56,740,341 |
| Absolute Return | 9,697,663 | 10,729,284 |
| Credit Opportunities | 49,243,383 | 21,763,023 |
| Private Equity | 24,552,113 | 61,227,578 |
| Real Assets | 24,226,593 | 91,543,418 |
| Real Estate | 13,923,610 | 42,664,757 |
| Risk Parity | 35,681,510 | - |
| Total Disbursements | 373,181,892 | 540,223,871 |
| INCREASE (DECREASE) IN CASH | 2,925,677 | $(2,454,322)$ |
| BEGINNING CASH BALANCE - July 1 | 26,714,223 | 29,168,545 |
| ENDING CASH BALANCE - June 30 | \$ 29,639,900 | \$ 26,714,223 |

## SCHEDULE OF ADMINISTRATIVE EXPENSES

FOR THE YEAR ENDED JUNE 30, 2013

| EXPENSE CATEGORY | ADMINISTRATIVE | INVESTMENT | TOTAL |
| :--- | ---: | ---: | ---: |
| Accounting and Auditing Services | $\$ 20,317$ | $\$-$ | $\$ 20,317$ |
| Actuarial Services | 28,801 | - | 28,801 |
| Board of Trustees Initiatives | 90,198 | - | 90,198 |
| Building Expense | 32,099 | - | 32,099 |
| Communications | 8,295 | - | 8,295 |
| Computer Related Expense | 27,312 | - | 27,312 |
| Contractual Services | 12,349 | - | 12,349 |
| Depreciation Expense | 35,304 | - | 35,304 |
| Furniture and Equipment | 2,180 | - | 9 |
| Investment Services | $-132,453$ | $12,695,908$ | $12,695,908$ |
| Legal Services | - | 120,917 | 253,370 |
| Local Board Training | 204,417 | - | - |
| Payroll Taxes and Fringe Benefits | 1,999 | 67,446 | 271,863 |
| Postage Expenses | 3,068 | - | 1,999 |
| Printing and Publications | 71,434 | 249,504 | 320,938 |
| Professional Services | 580,145 | 215,113 | 795,258 |
| Salaries and Wages | 6,438 | - | 6,438 |
| Supplies and Services | 5,125 | 6,284 | 11,409 |
| Training Expenses | 4,756 | 14,138 | 18,894 |
| Travel Expense | $\$ 1,266,690$ | $\$ 13,369,319$ | $\$ 14,636,009$ |
| T0TAL |  |  |  |


| CONSULTANT | SERVICE PROVIDED | FEES PAID |
| :--- | :--- | ---: |
| ALBOURNE AMERICA, LLC | International Alternative Investment Consultant | 112,320 |
| BNY MELLON ASSET SERVICING | Independent Investment Advisor | 40,633 |
| BUCK CONSULTING, LLC | Compensation Consultant | 15,359 |
| COOLEY LLP | Investment Counsel | 4,320 |
| ERNST \& YOUNG LLP | Investment Consultant | 40,131 |
| FOLEY \& LARDNER, LLC | Investment Counsel | 12,405 |
| FOSTER PEPPER | Investment Counsel | 972 |
| GABRIEL ROEDER SMITH \& COMPANY | Actuary | 52,358 |
| GOODWIN PROCTER | Legislative Liaison | 6,687 |
| HEINFELD, MEECH \& CO. | Independent Auditor | 17,676 |
| HIGHGROUND, INC | Legislative Liaison | 15,912 |
| JACKSON WALKER LLP | Investment Counsel | 10,880 |
| KUTAK ROCK LLP | General Counsel | 139,951 |
| LIGHT STONE SOLUTIONS, LLC | Due Diligence | 30,545 |
| NEPC, LLC | Independent Investment Advisor | 83,850 |
| OFFICE OF THE ATTORNEY GENERAL | General Counsel | 14,176 |
| ORG PORTFOLIO MANAGEMENT LLC | Real Estate Consultant | 52,283 |
| OSAM INC. | IT Counsel | 4,280 |
| PATRICE ROBINSON CONSULTING | IT Consultant | 8,942 |
| PILLSBURY | Investment Counsel | 3,370 |
| PUBLIC POLICY PARTNERS | Legislative Liaison | 23,400 |
| ROPES \& GRAY LLP | Investment Counsel | 102 |
| STEPSTONE GROUP LLC | Equity Advisors | 58,490 |
| STEPTOE \& JOHNSON, LLP | Litigation Counsel | $\mathbf{7 6 8 , 5 5 2}$ |
| TOTAL |  | 1 |

OTHER SUPPLEMENTARY INFORMATION

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

FOR THE YEAR ENDED JUNE 30, 2013

| HEALTH INSURANCE PREMIUM SUBSIDY | BEGINNING BALANCE | ADDITIONS | DELETIONS | $\begin{aligned} & \text { ENDING } \\ & \text { BALANCE } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| ASSETS |  |  |  |  |
| Cash | \$- | \$ 2,829,735 | \$ 2,829,735 | \$- |
| Total Assets | - | 2,829,735 | 2,829,735 |  |
| LIABILITIES |  |  |  |  |
| Benefits Payable | - | 2,829,735 | 2,829,735 | - |
| Total Liabilities | \$ | \$ 2,829,735 | \$ 2,829,735 | \$ |


| ACTUARIAL VALUATION DATE | HEALTH INSURANCE PREMIUM SUBSIDY AGENCY FUND SCHEDULE OF FUNDING PROGRESS (IN THOUSANDS) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ACTUARIAL <br> VALUE OF ASSETS | ACTUARIAL ACCRUED LIABILITY | UNFUNDED AAL(UAAL) | $\begin{aligned} & \text { FUNDED } \\ & \text { RATIO } \end{aligned}$ | ANNUAL COVERED <br> PAYROLL | UAAL AS A \% OF COVERED PAYROLL |
|  | (A) | (B) | (B-A) | (A/B) | (C) | ((B-A)/C) |
| 06/30/07 | 0 | \$48,990 | \$48,990 | 0.00\% | \$515,428 | 9.50\% |
| 06/30/08 | 0 | 53,701 | 53,701 | 0.00\% | 642,621 | 8.40\% |
| 06/30/09 | 0 | 68,731 | 68,731 | 0.00\% | 630,825 | 10.90\% |
| 06/30/10 | 0 | 73,272 | 73,272 | 0.00\% | 616,481 | 11.90\% |
| 06/30/11 | 0 | 94,105 | 94,105 | 0.00\% | 609,243 | 15.40\% |
| 06/30/12 | 0 | 90,882 | 90,882 | 0.00\% | 626,223 | 14.50\% |
| 06/30/13 | 0 | 93,544 | 93,544 | 0.00\% | 604,068 | 15.50\% |

* GASB reporting requires discretely 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, 2010, 2011, 2012 and 2013 would be $84.6 \%, 86.8 \%, 82.6 \%, 80.3 \%, 73.0 \%, 67.8 \%$ and $66.9 \%$ respectively.


Brian P. Tobin, Chairman
PUBLIC SAFETY PERSONNEL RETIREMENT SYSTEM

Gregory Ferguson, Vice Chair CORRECTIONS OFFICER RETIREMENT PLAN

Jeff Allen McHenry, Trustee
Richard J. Petrenka, Trustee
Randie A. Stein, Trustee
Lauren W. Kingry, Trustee
William C. Davis, Trustee

## 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
Jared A. Smout
Deputy Administrator

December 12, 2013

The Board of Trustees and
The Administrator of the
Arizona Public Safety Personnel Retirement System
Members:
As the Chief Investment Officer of the Public Safety Personnel Retirement System (PSPRS) during the fiscal year beginning July 1, 2012 and ending June 30,2013 , I submit the following comments and observations for your consideration and for the consideration of the respective parties in interest of the System:

## INTRODUCTION

On behalf of the PSPRS investment team, it is a pleasure to provide this annual update of investment activities of the PSPRS Trust for the fiscal year ending June 30, 2013. In commenting last year about the development of the PSPRS investment portfolio I mentioned that the end of 2012 marked the third year of having substantially deployed our more diversified, lower risk portfolio. The close of 2013 is the fourth year of that work and I am pleased to note that our four year return is about $9.94 \%$. In 2013 alone we returned approximately $10.64 \%$. This is exactly the increase in consistency we have been charged with delivering to the PSPRS system. Capturing most of the upside of the markets while limiting the downside is our ultimate goal.

## NOT ALL EGGS IN ONE BASKET

Recall from previous years that the historic PSPRS portfolio had a large concentration in U.S. equities. At times more than $70 \%$ of the total fund was invested in U.S. large cap stocks. The allowed the fund to perform well when the U.S. stock market went up but also to perform very poorly when the U.S. stock market went down. Today total equity concentration is about $30 \%$ of the portfolio and that exposure is broadly diversified. The portfolio has more than 100 external managers deploying an even greater number of different investment strategies. These investments are in 11 different asset classes and literally span the global markets. When some markets are down, others are up. When some strategies lag others are leaders. The net result is a much more complex but also a much more stable portfolio.

## LOWER RISK

For the past five years the total volatility of the PSPRS portfolio has been roughly one half that of the equity markets.


The practical implications of this shift can be seen in the following worst case stress model results:

| Events | Today's Portfolio | PSPRS Trust Actual |
| :--- | :---: | :---: |
| Asian Crisis of 1997 | $\mathbf{8 . 2 \%}$ | n.a. |
| Russlan/LTCM CrIsIs 1998 | $-5.0 \%$ | n.a. |
| WTC Attacks - Sept. 11 | $-2.5 \%$ | n.a. |
| Stock Market Crash 2002 | $-5.4 \%$ | n.a. |
| August Crisis 2007 | $3.3 \%$ | $1.6 \%$ |
| January Crisis 2008 | $-2.2 \%$ | $-2.7 \%$ |
| Credit Crunch 2008 (Aug to Nov) | $-9.1 \%$ | $-23.1 \%$ |
| Crisis 2009 (Jan-Feb) | $-5.5 \%$ | $-12.9 \%$ |

These stress tests lead to the conclusion that the PSPRS portfolio might half in the neighborhood of one half as much exposure to undesirable risks as it had five years ago, while maintaining a comparable expected return.
We will certainly deliver a smaller return than other funds that have $50 \%$ or $60 \%$ equities when the equity markets are strongly rising, but we will have considerably less losses when those equity markets drop precipitously. In the long run a stable return will outperform the more volatile ups and downs by a significant margin.

## THE PSPRS TEAM

Our system has benefitted greatly from a talented and dedicated group of current and former employees. The effective efforts of our staff have been joined by several teams of outside consultants positioned in markets around the world that help to monitor, analyze and evaluate current and future investment opportunities. In addition to this reservoir of talent we further benefit from our ongoing active partnerships with some the best and brightest investment organizations in the world. Literally hundreds of people across every time zone and geography combine their efforts to help PSPRS achieve its investment objectives.
Without the support of our Administrator, the members of the PSPRS board and all of the other employees of PSPRS our recent progress would have been impossible, and our future successes unattainable.

Respectfully and Gratefully Submitted,


Ryan P. Parham
Chief Investment Officer

## 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, 2013


| Description | 1 Year | 3 Years | 5 Years | 10 Years |
| :---: | :---: | :---: | :---: | :---: |
| PSPRS - Total Fund | 10.64\% | 8.82\% | 3.75\% | 5.84\% |
| Target Fund Benchmark | 10.08\% | 9.96\% | 3.28\% | 4.28\% |
| Total Equity | 18.22\% | 12.96\% | 5.07\% |  |
| Target Equity Benchmark | 18.07\% | 14.03\% | 4.17\% |  |
| U.S. Equity | 21.04\% | 16.37\% | N/A |  |
| Russell 3000 | 21.46\% | 18.63\% | 7.25\% |  |
| Non-U.S. Equity | 14.66\% | 8.23\% | N/A |  |
| MSCI ACWI Ex-USNet | 13.63\% | 7.99\% | -0.80\% |  |
| Private Equity | 11.52\% | 14.23\% | 7.58\% |  |
| Russell $3000+100$ bps | 22.46\% | 19.64\% | 8.91\% |  |
| Fixed Income | 1.35\% | 3.96\% | 4.69\% |  |
| BC US Aggregate | -2.18\% | 3.55\% | 3.68\% |  |
| Credit Opportunities | 12.52\% | 10.12\% | 5.68\% |  |
| BofA ML US High Yield BB-B Constrained | 8.02\% | 8.97\% | N/A |  |
| Absolute Return | 18.00\% | N/A | N/A |  |
| BofA ML 3-Month T-Bill +200 bps | 2.11\% | 2.11\% | N/A |  |
| GTAA | 3.45\% | 9.05\% | N/A |  |
| 3-Month LIBOR + 300bps | 3.33\% | 3.36\% | N/A |  |
| Real Assets | 3.49\% | 3.59\% | N/A |  |
| CPI +200 bps | 3.76\% | 4.33\% | N/A |  |
| Real Estate | 7.73\% | -0.51\% | -3.98\% |  |
| NCREIF NPI | 10.73\% | 13.14\% | 2.79\% |  |
| Risk Parity | -1.32\% | N/A | N/A |  |
| BC Global Agg, MSCI AC World Net, Dow Jones UBS Ind | 2.58\% | N/A | N/A |  |
| Short Term Investments | 0.13\% | -0.10\% | 0.18\% |  |
| BofA ML 3-Month T-Bill | 0.11\% | 0.11\% | 0.29\% |  |

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

## Target Fund Benchmarks (Effective Dates)

July 1, 2012 - Present: 18\% Russell 3000, 14\% MSCI World Ex-US Net, $9 \%$ Russell $3000+100$ bps, $12 \%$ BC Global Aggregate, 12\% Credit Opportunities Benchmark, 4\% BofA ML 3-Month T-Bill + 200 bps, $8 \% 3$-Month LIBOR +300 bps, $7 \%$ CPI + 200 bps, $10 \%$ NCREIF NPI, $4 \%$ Risk Parity Benchmark and 2\% BofA ML 3-Month T-Bill.
July 1, 2010 - June 30, 2012: 20\% Russell 3000, $15 \%$ MSCI World Ex-US Net, $8 \% 3$-Month LIBOR + 300 bps, $20 \%$ BC US Aggregate, $4 \%$ BofA ML 3-Month T-Bill + 200 bps, $9 \%$ BofA ML US High Yield BB-B Constrained, $8 \%$ Russell $3000+100$ bps, $6 \%$ CPI +200 bps, $8 \%$ NCREIF NPI and 2\% BofA ML 3-Month T-Bill.
April 1, 2009 - June 30, 2010: 30\% Russell 3000, 20\% MSCI World Ex-US Net, 20\% BC US Aggregate, $8 \%$ NCREIF NPI, $8 \%$ Russell $3000+100$ bps, $8 \%$ BofA ML US High Yield BB-B Constrained, 5\% CPI + 200 bps and 1\% BofA ML 3-Month 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\% BofA ML 3-Month T-Bill.

## Target Equity Benchmarks (Effective Dates)

July 1, 2010 - Present: 57.14\% Russell 3000 and $42.86 \%$ MSCI World Ex-US Net. 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.

EQUITY PORTFOLIO TOP 10 HOLDINGS
JUNE 30, 2013

| Description | Shares | Fair Value |
| :--- | ---: | ---: |
| MCSI WORLD EX-US INDEX | $10,548,644$ | $126,967,224$ |
| RUSSELL 3000 SECURITIES | $2,516,934$ | $106,921,799$ |
| CRESTLINE ALPHA | $31,758,462$ | $31,758,462$ |
| VANGUARD FTSE EMERGING MARKETS | 717,053 | $27,818,060$ |
| ACADIAN US MANAGED | 571,821 | $22,358,948$ |
| EAGLE SMALL CAR GR | 722,640 | $17,425,582$ |
| THB MICRO CAP | $1,564,701$ | $14,850,184$ |
| RANGER SMALL CAP | 491,849 | $14,413,003$ |
| KKR EQ STRATEGIES | $12,940,786$ | $12,940,786$ |
| SOUTHPOINT | $12,910,691$ | $12,910,691$ |

FIXED INCOME PORTFOLIO TOP 10 HOLDINGS
JUNE 30, 2013

| Description | Shares | Fair Value |
| :--- | ---: | ---: |
| BGI CORE ACTIVE BOND FUND | $3,358,673$ | $77,833,610$ |
| FRANKLIN TEMPLETON EMD | $15,549,584$ | $15,549,584$ |
| CAPITAL GUARDIAN EMERGING | 906,323 | $12,833,535$ |
| GOLDENTREE HIGH YIELD VALUE | $11,003,435$ | $11,003,435$ |
| IGUAZU PARTNERS LP | $9,003,194$ | $9,003,195$ |
| BANK OF AMERICA NA | $2,535,137$ | $2,427,850$ |
| CBO HLDGS III 04-3 CLA 144A | $2,415,264$ | $2,406,911$ |
| FNMA GTD REMIC P/T 11-8 AV | $2,145,116$ | $2,232,872$ |
| CBO HLDGS III 1A 04-1 C-2 144A | $2,034,550$ | $2,115,808$ |
| FHLMC MULTICLASS MTG 3561 B | $1,950,105$ | $2,065,844$ |

## SUMMARY OF CHANGES IN INVESTMENT PORTFOLIO

JUNE 30, 2013
(IN THOUSANDS)

JUNE 30, 2012 BALANCE

JUNE 30, 2013 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 | $\begin{aligned} & \text { FAIR } \\ & \text { VALUE } \end{aligned}$ | $\begin{aligned} & \text { BOOK } \\ & \text { VALUE } \end{aligned}$ | PERCENT AT FAIR VALUE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U. S. Equity | 19.78\% | 246,771 | 208,946 | 71,456 | 71,564 | 256,644 | 208,838 | 18.61\% |
| Non U. S. Equity | 14.51\% | 180,837 | 180,914 | 33,366 | 30,812 | 198,214 | 183,468 | 14.37\% |
| GTAA | 9.72\% | 121,142 | 102,914 | 5,850 | 9,044 | 120,617 | 99,720 | 8.74\% |
| Fixed Income | 13.92\% | 173,505 | 154,062 | 11,242 | 25,078 | 156,186 | 140,226 | 11.32\% |
| Absolute Return | 3.58\% | 44,616 | 41,313 | 9,908 | 5,123 | 57,963 | 46,098 | 4.20\% |
| Credit Opportunities | 8.87\% | 110,508 | 98,101 | 49,087 | 28,963 | 127,251 | 118,225 | 9.22\% |
| Private Equity | 10.50\% | 130,833 | 116,378 | 25,225 | 1,732 | 160,061 | 139,871 | 11.60\% |
| Real Assets | 6.41\% | 79,934 | 74,608 | 23,244 | 14,938 | 89,688 | 82,914 | 6.50\% |
| Real Estate | 12.71\% | 158,418 | 190,466 | 14,498 | 3,811 | 181,577 | 201,153 | 13.16\% |
| Risk Parity |  |  |  | 35,874 | 4,575 | 31,424 | 31,299 | 2.28\% |
| Total Portfolio | 100.00\% | 1,246,564 | 1,167,702 | 279,750 | 195,640 | 1,379,625 | 1,251,812 | 100.00\% |

*See Note 14.

SCHEDULE OF COMMISSIONS PAID TO BROKERS
YEAR ENDED JUNE 30, 2013

| BROKER | NUMBER OF <br> SHARES TRADED | AVERAGE <br> COMMISSION | TOTAL <br> COMMISSIONS |
| :--- | ---: | ---: | ---: |
| B.RILEY \& CO.,LLC, LOS ANGELES | 12,247 | 0.0297 | 364 |
| BAIRD, ROBERT W \& CO INC, MILWAUKEE | 57,331 | 0.0397 | 2,275 |
| BARCLAYS BK PLC, NEW YORK | 143,668 | 0.0182 | 2,610 |
| BARCLAYS CAPITAL LE, JERSEY CITY | 503,058 | 0.0103 | 5,199 |
| BARCLAYS CAPITAL, LONDON (BARCGB33) | 1,410 | 0.0149 | 21 |
| BARRINGTON RESEARCH ASSOCIATES, BROOKLYN | 2,028 | 0.0399 | 81 |
| BB\&T SECURITIES, LLC, RICHMOND | 20,137 | 0.0400 | 805 |
| BENCHMARK COMPANY LLC, BROOKLYN | 839 | 0.0250 | 21 |
| BERNSTEIN SANFORD C \& CO, NEW YORK | 255,485 | 0.0181 | 4,623 |
| BLOOMBERG TRADEBOOK LLC, NEW YORK | 241,529 | 0.0200 | 4,831 |
| BMO CAPITAL MARKETS CORP, NEW YORK | 19,564 | 0.0314 | 615 |
| BNY BROKERAGE, NEW YORK | 93,313 | 0.0050 | 467 |


| BROKER | NUMBER OF SHARES TRADED | AVERAGE COMMISSION | TOTAL COMMISSIONS |
| :---: | :---: | :---: | :---: |
| BNY CONVERGEX, NEW YORK | 3,505 | 0.0046 | 16 |
| BREAN MURRAY, CARRET \& CO, LAKE SUCCESS | 3,394 | 0.0224 | 76 |
| BROCKHOUSE AND COOPER, MONTREAL | 12,300 | 0.0135 | 166 |
| BTIG LLC, SAN FRANCISCO | 73,637 | 0.0211 | 1,553 |
| CANACCORD GENUITY INC.NEY YORK | 6,163 | 0.0363 | 224 |
| CANACCORD GENUITY INC, JERSEY CITY | 12,089 | 0.0359 | 434 |
| CANTOR FITZGERALD \& CO INC, NEW YORK | 47,637 | 0.0198 | 945 |
| CAPITAL ONE SOUTHCOAST INC, NEW ORLEANS | 9,611 | 0.0400 | 384 |
| CHEEVERS \& CO. INC., CHICAGO | 1,034 | 0.0251 | 26 |
| CITIGROUP GBL MKTS AUSTRALIA PTY, SYDNEY | 9,583 | 0.0094 | 90 |
| CITIGROUP GBL MKTS INC, NEW YORK | 17,233 | 0.0216 | 373 |
| CITIGROUP GBL MKTS/SALOMON, NEW YORK | 63,267 | 0.0055 | 348 |
| CITIGROUP GLOBAL MARKETS LTD, LONDON | 4,634 | 0.0069 | 32 |
| CJS SECURITIES INC, JERSEY CITY | 1,560 | 0.0397 | 62 |
| COMPASS POINT RESEARCH \& TR, JERSEY CITY | 65,956 | 0.0285 | 1,877 |
| COWEN AND COMPANY LLC, NEW YORK | 37,533 | 0.0287 | 1,078 |
| CRAIG HALLUM, MINNEAPOLIS | 107,181 | 0.0280 | 2,998 |
| CREDIT LYONNAIS SECS (ASIA), HONG KONG | 14,899 | 0.0011 | 17 |
| (REDIT RESEARCH \& TRADING LLC, JERSEY | 3,176 | 0.0368 | 117 |
| CREDIT SUISSE (EUROPE), LONDON | 62,154 | 0.0042 | 258 |
| CREDIT SUISSE AUSTRALIA EQ, MELBOURNE | 59,629 | 0.0031 | 187 |
| CREDIT SUISSE, NEW YORK (CSUS) | 66,929 | 0.0069 | 461 |
| DAIWA SECS (HK) LTD, HONG KONG | 8,834 | 0.0058 | 51 |
| DAVIDSON(D A) \& CO INC, NEW YORK | 3,539 | 0.0184 | 65 |
| DEUTSCHE BK INTL EQ, LONDN (DEUTGB22EEQ) | 165,623 | 0.0038 | 624 |
| DEUTSCHE BK SECS INC, NY (NWSCUS33) | 122,042 | 0.0138 | 1,684 |
| DIRECT ACCESS PARTNERS LLC, JERSEY CITY | 184 | 0.0217 | 4 |
| DOMINICK \& DOMINICK, JERSEY CITY | 1,463 | 0.0294 | 43 |
| DOUGHERTY COMPANY, BROOKLYN | 21,471 | 0.0315 | 676 |
| EVERCORE GROUP LLC, JERSEY CITY | 1,655 | 0.0471 | 78 |
| EXECUTION LTD, LONDON | 2,681 | 0.0034 | 9 |
| FBN SECURITIES INC, JERSEY CITY | 137 | 0.0292 | 4 |
| FBR CAPITAL MARKETS \& CO, ARLINGTON | 13,610 | 0.0324 | 441 |
| FIG PARTNERS LLC, ATLANTA | 66,214 | 0.0348 | 2,307 |
| FIRST ANALYSIS SECS CORP, CHICAGO | 13,731 | 0.0470 | 646 |
| FIRST CLEARING LLC, RICHMOND | 399 | 0.0351 | 14 |
| GLOBAL HUNTER SEC. LLC, NEW ORLEANS | 635 | 0.0299 | 19 |
| GLOBAL HUNTER SECURITIES LTD,JERSEY | 2,847 | 0.0306 | 87 |
| GOLDMAN SACHS \& CO, NY | 99,280 | 0.0985 | 9,778 |
| GOLDMAN SACHS EXECUTION \& CLEARING, NY | 102,465 | 0.0147 | 1,504 |
| GOLDMAN SACHS INTL, LONDON (GSILGB2X) | 89,119 | 0.0044 | 390 |
| GUGGENHEIM CAPITAL MKT LLC, JERSEY CITY | 5,078 | 0.0437 | 222 |
| HOWARD WEIL INCORPORATED, NEW ORLEANS | 2,457 | 0.0399 | 98 |
| HSBC BANK AUSTRALIA LTD, SYDNEY | 119,504 | 0.0023 | 278 |


| BROKER | NUMBER OF SHARES TRADED | AVERAGE COMMISSION | $\begin{array}{r} \text { TOTAL } \\ \text { COMMISSIONS } \end{array}$ |
| :---: | :---: | :---: | :---: |
| HSBC SECS INC, NEW YORK | 2,660 | 0.0064 | 17 |
| INSTINET CORP, NEW YORK | 65,981 | 0.0140 | 926 |
| INSTINET EUROPE LIMITED, LONDON | 45,261 | 0.0039 | 177 |
| INSTINET, SINGAPORE | 12,676 | 0.0019 | 24 |
| INVESTMENT TECHNOLOGY GROUP LTD,DUBLIN | 99,845 | 0.0019 | 193 |
| INVESTMENT TECHNOLOGY GROUP, NEW YORK | 28,015 | 0.0118 | 330 |
| ISI GROUP INC, NY | 492,981 | 0.0110 | 5,442 |
| ITG AUSTRALIA LTD, MELBOURNE | 225 | 0.0178 | 4 |
| ITG CANADA CORP, TORONTO | 5,519 | 0.0134 | 74 |
| ITG HONG KONG LIMITED, HONG KONG | 16,248 | 0.0015 | 24 |
| ITG/POSIT, NEW YORK | 16,272 | 0.0132 | 215 |
| JP MORGAN SEC, SYDNEY | 314 | 0.0127 | 4 |
| J P MORGAN SECURITIES INC, BROOKLYN | 40,745 | 0.0127 | 517 |
| J.P. MORGAN CLEARING CORP, NEW YORK | 53,832 | 0.0218 | 1,171 |
| JANNEY MONTGOMERY SCOTT, PHILADELPHIA | 330 | 0.0212 | 7 |
| JEFFERIES \& CO INC, NEW YORK | 116,702 | 0.0233 | 2,715 |
| JEFFERIES \& CO LTD, LONDON | 29,262 | 0.0054 | 158 |
| JMP SECURITIES, SAN FRANCISCO | 10,270 | 0.0432 | 444 |
| JOHNSON RICE \& CO, NEW ORLEANS | 32,622 | 0.0399 | 1,300 |
| JONESTRADING INSTL SVCS LLC, WESTLAKE | 87,947 | 0.0197 | 1,733 |
| KEEFE BRUYETTE AND WOODS, JERSEY CITY | 61,468 | 0.0322 | 1,977 |
| KEYBANC CAPITAL MARKETS INC, NEW YORK | 54,476 | 0.0349 | 1,899 |
| KNIGHT DIRECT LLC, JERSEY CITY | 9,756 | 0.0200 | 195 |
| KNIGHT EQUITY MARKETS L.P.,JERSEY CITY | 273,184 | 0.0226 | 6,186 |
| LAZARD CAPITAL MARKETS LLC, NEW YORK | 15,444 | 0.0295 | 455 |
| LEERINK SWANN \& CO, JERSEY CITY | 5,572 | 0.0255 | 142 |
| LEK SECURITIES CORP, NEW YORK | 11,550 | 0.0200 | 231 |
| LIQUIDNET INC, BROOKLYN | 253,125 | 0.0195 | 4,944 |
| LOOP CAPITAL MARKETS LLC | 6,306 | 0.0057 | 36 |
| MACQUARIE BANK LTD, HONG KONG | 5,552 | 0.0027 | 15 |
| MACQUARIE CAPITAL (USA) INC., NEW YORK | 25,043 | 0.0072 | 180 |
| MACQUARIE EQUITIES LTD, SYDNEY | 6,576 | 0.0071 | 47 |
| MACQUARIE SECURITIES LIMITED, HONG KONG | 1,950 | 0.0026 | 5 |
| MERRILL LYNCH INTL LONDON EQUITIES | 179,142 | 0.0033 | 591 |
| MERRILL LYNCH PIERCE FENNER SMITH INC NY | 62,661 | 0.0157 | 981 |
| MERRILL LYNCH PIERCE FENNER, WILMINGTON | 48,291 | 0.0053 | 257 |
| MISCHLER FINL/EQUITIES, CORONA DELMAR | 122 | 0.0082 | 1 |
| MKM PARTNERS LLC, GREENWICH | 10,238 | 0.0264 | 270 |
| MONNESS CRESPI HARDT \& CO INC, JERSEY | 6,682 | 0.0216 | 144 |
| MORGAN STANLEY \& CO INC, NY | 2,478,925 | 0.0048 | 11,837 |
| MORGAN STANLEY SECURITIES LTD, LONDON | 79,095 | 0.0010 | 79 |
| MS SECS SVCS INC INTL, BROOKLYN | 3,615 | 0.0136 | 49 |
| NATIONAL FINL SVCS CORP, NEW YORK | 2,755 | 0.0338 | 93 |
| NEEDHAM \& CO, NEW YORK | 40,547 | 0.0317 | 1,286 |


| BROKER | NUMBER OF SHARES TRADED | AVERAGE COMMISSION | $\begin{array}{r} \text { TOTAL } \\ \text { COMMISSIONS } \end{array}$ |
| :---: | :---: | :---: | :---: |
| NEWEDGE USA LLC, NEW YORK | 29 | 16.4138 | 476 |
| NOMURA SECS INTL INC, NEW YORK | 104,999 | 0.0146 | 1,532 |
| NOMURA SECS INTL, LONDON | 52,965 | 0.0015 | 79 |
| NON-BROKER CORP ACTIONS, BOSTON | 3,042 | 0.0141 | 43 |
| NORTHLAND SECS INC, JERSEY CITY | 5,207 | 0.0336 | 175 |
| OPPENHEIMER \& CO INC, NEW YORK | 56,239 | 0.0378 | 2,127 |
| PACIFIC CREST SECURITIES, PORTLAND | 12,663 | 0.0314 | 398 |
| PERSHING LLC, JERSEY CITY | 39,849 | 0.0134 | 533 |
| PERSHING SECURITIES LTD, LONDON | 708 | 0.0141 | 10 |
| PICKERING ENERGY PARTNERS, HOUSTON | 5,147 | 0.0451 | 232 |
| PIPER JAFFRAY \& CO, MINNEAPOLIS | 74,965 | 0.0309 | 2,315 |
| PULSE TRADING LLC, BOSTON | 365,997 | 0.0282 | 10,318 |
| RAYMOND JAMES \& ASSOC INC, ST PETERSBURG | 44,964 | 0.0363 | 1,633 |
| RBC CAPITAL MARKETS LLC, NEW YORK | 1,238,825 | 0.0054 | 6,699 |
| RBC DOMINION SECS INC, TORONTO (DOMA) | 13,027 | 0.0151 | 197 |
| ROCHDALE SECURITIES CORP | 328 | 0.0213 | 7 |
| ROTH CAPITAL PARTNERS LLC, IRVINE | 18,948 | 0.0281 | 532 |
| ROYAL BANK OF CANADA, TORONTO (RBCT) | 13,032 | 0.0039 | 51 |
| SANDLER O'NEILL \& PARTNERS, NEW YORK | 75,800 | 0.0330 | 2,499 |
| SCARSDALE EQUITIES LLC, JERSEY CITY | 9,763 | 0.0428 | 418 |
| SCOTIA CAPITAL (USA) INC, NEW YORK | 5,466 | 0.0494 | 270 |
| SG AMERICAS SECURITIES LLC, NEW YORK | 18,741 | 0.0240 | 450 |
| SG SEC (LONDON) LTD, LONDON | 14,356 | 0.0025 | 36 |
| SIDOTI \& CO LLC, NEW YORK | 49,813 | 0.0379 | 1,890 |
| STATE STREET BK \& TR CO (SEC), LONDON | 43,217 | 0.0032 | 137 |
| STEPHENS INC, LITTLE ROCK | 50,142 | 0.0383 | 1,922 |
| STERNE AGEE \& LEACH INC | 14,562 | 0.0431 | 627 |
| STIFEL NICOLAUS | 44,037 | 0.0305 | 1,345 |
| SUNTRUST CAPITAL MARKETS INC, ATLANTA | 11,504 | 0.0346 | 398 |
| TD WATERHOUSE SEC, TORONTO (GIST) | 327 | 0.0153 | 5 |
| THINKEQUITY PARTNERS LLC, MINNEAPOLIS | 5,359 | 0.0467 | 250 |
| UBS AG, AUSTRALIA BR, SYDNEY | 2,795 | 0.0039 | 11 |
| UBS EQUITIES, LONDON | 6,154 | 0.0034 | 21 |
| UBS FINANCIAL SERVICES INC, WEEHAWKEN | 2,925 | 0.0051 | 15 |
| UBS SECURITIES CANADA, TORONTO (BWIT) | 6,835 | 0.0145 | 99 |
| UBS SECURITIES LLC, STAMFORD | 8,652 | 0.0134 | 116 |
| UBS WARBURG AUSTRALIA EQUITIES, SYDNEY | 33,910 | 0.0058 | 196 |
| WEDBUSH MORGAN SECS INC, LOS ANGELES | 4,553 | 0.0389 | 177 |
| WEDGE SECURITIES LLC, JERSEY CITY | 880 | 0.0398 | 35 |
| WEEDEN \& CO, NEW YORK | 172,667 | 0.0245 | 4,232 |
| WILLIAM BLAIR \& CO, CHICAGO | 67,733 | 0.0273 | 1,851 |
| WILLIAMS CAPITAL GROUP LP, JERSEY CITY | 3,842 | 0.0141 | 54 |
| WUNDERLICH SECURITIES INC, MEMPHIS | 35,318 | 0.0382 | 1,350 |
| TOTAL COMMISSIONS | 10,416,748 | 0.0140 | 145,792 |

U.S. EQUITY PORTFOLIO

YEAR ENDED JUNE 30, 2013

| SHARES | DESCRIPTION | COST | FAIR VALUE | UNREALIZED <br> GAIN(LOSS) |
| ---: | :--- | ---: | ---: | ---: |
| 571,821 | ACADIAN US MANAGED | $20,459,912$ | $22,358,948$ | $1,899,036$ |
| $31,758,462$ | CRESTLINE ALPHA | $29,251,578$ | $31,758,462$ | $2,506,884$ |
| 722,640 | EAGLE SMALL CAR GR | $14,110,179$ | $17,425,582$ | $3,315,403$ |
| 305,010 | FRONTPOINT ALPHA | 353,113 | 305,010 | $(48,103)$ |
| 322,249 | GOTHAM INSTL SELECT | $8,653,886$ | $8,693,111$ | 39,225 |
| 293,016 | GOTHAM VALUE 1000 | $8,744,491$ | $8,837,645$ | 93,154 |
| 117,301 | GOTHAM VALUE 2000 | $1,948,552$ | $1,997,455$ | 48,903 |
| $12,940,786$ | KKR EQ STRATEGIES | $11,700,631$ | $12,940,786$ | $1,240,155$ |
| 491,849 | RANGER SMALL CAP | $12,192,765$ | $14,413,003$ | $2,220,238$ |
| $12,910,691$ | SOUTHPOINT | $11,700,631$ | $12,910,691$ | $1,210,060$ |
| 327 | RUSSELL 1000 MINI FUTURE | 0 | $(570,041)$ | $(570,041)$ |
| 25 | RUSSELL 2000 MINI IND FUTURE | 0 | $(28,767)$ | $(28,767)$ |
| $2,516,934$ | RUSSELL 3000 SECURITIES | $74,836,850$ | $106,921,799$ | $32,084,949$ |
| $1,564,701$ | THB MICRO CAP | $11,506,070$ | $14,850,184$ | $3,344,114$ |
| 195,183 | THB SMALL CAP VAL | $3,379,412$ | $3,830,164$ | 450,752 |
| $\mathbf{6 4 , 7 1 0 , 9 9 5}$ | TOTAL US EQUITY PORTFOLIO | $\mathbf{2 0 8 , 8 3 8 , 0 7 0}$ | $\mathbf{2 5 6 , 6 4 4 , 0 3 2}$ | $\mathbf{4 7 , 8 0 5 , 9 6 2}$ |
|  |  |  |  |  |

NON-U.S. EQUITY PORTFOLIO
YEAR ENDED JUNE 30, 2013

| SHARES | DESCRIPTION | COST | FAIR VALUE | UNREALIZED <br> GAIN (LOSS) |
| ---: | :--- | ---: | ---: | ---: |
| $10,548,644$ | MCSI WORLD EX-US INDEX | $114,777,838$ | $126,967,224$ | $12,189,386$ |
| $1,319,901$ | BGI FRONTIER | $5,850,700$ | $8,657,169$ | $2,806,469$ |
| $9,807,278$ | ESG CBE | $9,750,526$ | $9,807,278$ | 56,752 |
| $1,027,408$ | GOTHAM 400 INTL | $6,610,198$ | $6,410,143$ | $(200,055)$ |
| 456,706 | GOTHAM INSTL INTL | $6,491,414$ | $6,339,011$ | $(152,403)$ |
| 81,904 | ISHARES MSCI CANADA ETF | $2,215,720$ | $2,141,801$ | $(73,919)$ |
| 25,546 | ISHARES MSCI EAFE ETF | $1,292,667$ | $1,463,807$ | 171,140 |
| 74,416 | ISHARES MSCI SOUTH KOREA | $4,405,685$ | $3,958,932$ | $(446,753)$ |
| 21,003 | VANGUARD FTSE ALL-WORLD EX-US | 905,123 | 928,736 | 23,613 |
| 717,053 | VANGUARD FTSE EMERGING MARKETS | $27,457,598$ | $27,818,060$ | 360,462 |
| 9,048 | VANGUARD FTSE EUROPE ETF | 384,942 | 435,504 | 50,562 |
| 4,187 | VANGUARD FTSE PACIFIC ETF | 212,566 | 233,775 | $\mathbf{2 1 , 2 0 9}$ |
| $\mathbf{6 6 , 3 0 4}$ | WISDOMTREE EMERGING MARKETS SM | $3,112,654$ | $3,052,617$ | $(60,037)$ |
| $\mathbf{2 4 , 1 5 9 , 3 9 8}$ | TOTAL NON-US EQUITY PORTFOLIO | $\mathbf{1 8 3 , 4 6 7 , 6 3 1}$ | $\mathbf{1 9 8 , 2 1 4 , 0 5 7}$ | $\mathbf{1 4 , 7 4 6 , 4 2 6}$ |


| PAR VALUE | DESCRIPTION | COUPON RATE | MATURITY | COST | FAIR VALUE |
| :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. GOVERNMENT SECURITIES |  |  |  |  |  |
| 205,827 | FHLMC POOL \#H1-0069 | 6.00\% | 11/01/2036 | 206,025 | 222,312 |
| 194,388 | FHLMC POOL \#H1-5010 | 6.00\% | 11/01/2036 | 194,569 | 209,748 |
| 1,264,795 | FHLMC MULTICLASS MTG 4012 MW | 3.50\% | 03/15/2042 | 1,270,873 | 1,256,105 |
| 1,950,105 | FHLMC MULTICLASS MTG 3740 KD | 4.00\% | 11/15/2038 | 1,908,289 | 2,006,873 |
| 2,145,116 | FNMA GTD REMIC P/T 11-8 AV | 4.00\% | 01/25/2030 | 2,100,258 | 2,232,872 |
| 1,950,105 | FHLMC MULTICLASS MTG 3561 B | 4.00\% | 08/15/2029 | 1,928,950 | 2,065,844 |
| 7,710,336 | TOTAL US GOVERNMENT SECURITIES |  |  | 7,608,964 | 7,993,754 |
| PAR VALUE | DESCRIPTION | COUPON RATE | MATURITY | COST | FAIR VALUE |
| CORPORATE BONDS |  |  |  |  |  |
| 457,291 | ACA ABS 2006-1 LTD 1A A3L 144A | 1.82\% | 06/10/2041 | 137,056 | 5 |
| 375,980 | ASSOCIATES CORP OF NORTH AMERI | 6.95\% | 11/01/2018 | 359,854 | 445,273 |
| 975,053 | AUSTRALIA \& NEW ZEALAND B 144A | 4.88\% | 01/12/2021 | 1,001,628 | 1,069,340 |
| 37,070 | AUTO BD RECEIVABLES TR 94-A | 6.40\% | 04/15/2009 | 37,070 | 0 |
| 2,535,137 | BANK OF AMERICA NA | 0.57\% | 06/15/2017 | 2,308,344 | 2,427,850 |
| 390,021 | BANK ONE CORP | 8.00\% | 04/29/2027 | 383,419 | 523,634 |
| 3,358,673 | BGI CORE ACTIVE BOND FUND | 0.00\% | 01/00/1900 | 66,611,255 | 77,833,610 |
| 906,323 | CAPITAL GUARDIAN EMERGING | 0.00\% | 01/00/1900 | 11,700,632 | 12,833,535 |
| 2,415,264 | CBO HLDGS III 04-3 CL A 144A | 1.00\% | 06/01/2019 | 2,406,911 | 2,406,911 |
| 2,034,550 | CBO HLDGS III 1A 04-1 C-2 144A | 7.00\% | 02/10/2038 | 2,115,808 | 2,115,808 |
| 975,053 | CHICAGO PARKING METERS LL 144A | 5.49\% | 12/30/2020 | 1,072,783 | 1,012,543 |
| 166,929 | CONAGRA FOODS INC | 9.75\% | 03/01/2021 | 186,235 | 217,505 |
| 292,516 | CON-WAY INC | 6.70\% | 05/01/2034 | 251,955 | 292,577 |
| 15,549,584 | FRANKLIN TEMPLETON EMD | 0.00\% | 01/00/1900 | 13,650,736 | 15,549,584 |
| 585,032 | GENERAL ELECTRIC CAPITAL CORP | 0.54\% | 08/07/2018 | 538,228 | 570,353 |
| 975,053 | GILEAD SCIENCES INC | 4.50\% | 04/01/2021 | 989,378 | 1,056,596 |
| 11,003,435 | GOLDENTREE HIGH YIELD VALUE | 0.00\% | 01/00/1900 | 9,750,526 | 11,003,435 |
| 682,537 | GOLDMAN SACHS GROUP INC/THE | 6.75\% | 10/01/2037 | 714,446 | 699,163 |
| 235 | GRACIE INTERNATIONAL CREDIT | 0.00\% | 01/00/1900 | 487,526 | 448,164 |
| 1,267,568 | HSBC FINANCE CORP | 0.70\% | 06/01/2016 | 1,213,897 | 1,256,693 |
| 9,003,194 | IGUAZU PARTNERS LP | 0.00\% | 01/00/1900 | 7,800,421 | 9,003,195 |
| 34,487 | JP MORGAN MBS SERI R2 3A1 144A | 4.84\% | 04/28/2026 | 34,828 | 34,937 |
| 682,537 | MORGAN STANLEY | 6.38\% | 07/24/2042 | 685,522 | 761,480 |
| 34,621 | MORGAN STANLEY ABS CAPI NC1 M2 | 2.52\% | 12/27/2033 | 30,501 | 34,469 |
| 27,380 | MORGAN STANLEY ABS CAPI NC2 M2 | 1.99\% | 12/25/2033 | 23,240 | 21,454 |
| 975,053 | NABORS INDUSTRIES INC | 9.25\% | 01/15/2019 | 1,219,737 | 1,209,777 |
| 235,272 | NORTH STREET REFE 3A CTFS 144A | 4.02\% | 04/30/2031 | 213,378 | 213,378 |
| 975,053 | NORTH STREET REFE 3A NOTE 144A | 1.27\% | 04/30/2031 | 338,664 | 166,276 |
| 945,801 | PACIFIC BELL TELEPHONE CO | 7.38\% | 07/15/2043 | 958,122 | 975,007 |
| 682,537 | PROTECTIVE LIFE CORP | 8.45\% | 10/15/2039 | 780,328 | 876,398 |


| PAR VALUE | DESCRIPTION | COUPON RATE | MATURITY | COST | FAIR VALUE |
| :---: | :--- | :---: | :---: | ---: | ---: |
| CORPORATE BONDS |  |  |  |  |  |
| $1,170,063$ | SECURITY MUTUAL LIFE CO OF NEW | $9.38 \%$ | $12 / 15 / 2016$ | $1,197,735$ | $1,197,735$ |
| $1,950,105$ | TRAINER WORTHAM FI 2A A3L 144A | $2.02 \%$ | $04 / 10 / 2037$ | $1,417,028$ | 20 |
| 932,429 | TRI-COMMAND MILITARY HOUS 144A | $5.38 \%$ | $02 / 15 / 2048$ | 835,865 | 760,946 |
| 390,021 | UNITED UTILITIES PLC | $4.55 \%$ | $06 / 19 / 2018$ | 368,067 | 405,134 |
| 390,021 | WACHOVIA CORP | $0.54 \%$ | $06 / 15 / 2017$ | 372,062 | 383,387 |
| 370,520 | WESTERN GROUP HOUSING LP 144A | $6.75 \%$ | $03 / 15 / 2057$ | 423,901 | 386,041 |
| $\mathbf{6 3 , 7 8 2 , 3 9 8}$ | TOTAL US CORPORATE BONDS |  |  | $\mathbf{1 3 2 , 6 1 7 , 0 8 6}$ | $\mathbf{1 4 8 , 1 9 2 , 2 1 3}$ |
|  |  |  |  |  |  |
| $\mathbf{7 1 , 4 9 2 , 7 3 4}$ | TOTAL FIXED INCOME PORTFOLIO | $\mathbf{1 4 0 , 2 2 6 , 0 5 0}$ | $\mathbf{1 5 6 , 1 8 5 , 9 6 7}$ |  |  |

## CREDIT OPPORTUNITIES PORTFOLIO

YEAR ENDED JUNE 30, 2013

| DESCRIPTION | COST | FAIR VALUE | UNREALIZED <br> GAIN (LOSS) |
| :--- | ---: | ---: | ---: |
| APOLLO EUR PRIN FIN | $15,269,850$ | $15,151,550$ | $(118,300)$ |
| BLACKROCK MTG INV PE | 0 | $5,897,555$ | $5,897,555$ |
| CASTLE CREEK TARP | $6,674,967$ | $6,809,984$ | 135,017 |
| CENTERBRIDGE SCI | 894,418 | $5,424,682$ | $4,530,264$ |
| CENTERBRIDGE SC II | $3,230,463$ | $3,460,330$ | 229,867 |
| CREDIT OPPS PUBLIC | $1,429,820$ | $1,484,052$ | 54,232 |
| EJF DEBT OPPS FUND | $7,800,421$ | $10,581,953$ | $2,781,532$ |
| ESG CME FUND | $14,625,789$ | $12,847,572$ | $(1,778,217)$ |
| GS CREDIT OPPS 2008 | 122,152 | 261,558 | 139,406 |
| HELIOS MARITIME | $5,850,316$ | $6,261,726$ | 411,410 |
| OHA STRATEGIC CREDIT | 973,256 | $2,770,465$ | $1,797,209$ |
| PAG ASIA OPP FUND | $7,800,421$ | $8,743,755$ | 943,334 |
| PAG SPEC SITUATIONS | $2,555,624$ | $2,591,009$ | 35,385 |
| PNMAC MORTG OPP | $25,351,368$ | $18,682,161$ | $(6,669,207)$ |
| SIC DIR LENDING II | $1,749,959$ | $1,739,713$ | $(10,246)$ |
| SJC DIRECT LENDING | $5,143,734$ | $5,344,924$ | 201,190 |
| STARK ABS OPPS | 121,564 | 176,975 | 55,411 |
| TENNENBAUM DIP | 147,426 | 102,547 | $(44,879)$ |
| TPG OP II | $10,683,053$ | $11,223,369$ | 540,316 |
| WEST FACE LT OPPS | $7,800,422$ | $7,695,364$ | $(105,058)$ |
| TOTAL CREDIT OPPORTUNITIES PORTFOLIO | $\mathbf{1 1 8 , 2 2 5 , 0 2 3}$ | $\mathbf{1 2 7 , 2 5 1 , 2 4 4}$ | $\mathbf{9 , 0 2 6 , 2 2 1}$ |


| DESCRIPTION | COST | FAIR VALUE | UNREALIZED GAIN (LOSS) |
| :---: | :---: | :---: | :---: |
| ABRY PARTNERS | 2,591,168 | 2,460,459 | $(130,709)$ |
| ACTIS ENERGY 3 | 436,686 | 436,686 | 0 |
| APOLLO INV FD VII | 7,293,100 | 10,517,497 | 3,224,397 |
| AVALON VENTURES IX | 2,613,141 | 2,777,941 | 164,800 |
| AVALON VENTURES X | 468,025 | 398,159 | $(69,866)$ |
| BARING ASIA PEV | 2,445,173 | 2,906,493 | 461,320 |
| BCP V | 3,832,733 | 4,627,055 | 794,322 |
| BERKSHIRE PARTN VIII | 980,824 | 1,003,926 | 23,102 |
| CASTLE CREEK | 8,002,022 | 10,611,740 | 2,609,718 |
| CENTERBRIDGE CP II | 5,255,140 | 5,730,217 | 475,077 |
| CHARLESBANK VII | 3,214,034 | 3,896,938 | 682,904 |
| CORTECV | 1,900,752 | 2,301,653 | 400,901 |
| DAG II CO-INV | 3,422,858 | 983,434 | $(2,439,424)$ |
| DAG III CO-INV | 2,305,247 | 3,277,460 | 972,213 |
| DAG IV CO-INV | 4,234,776 | 5,626,281 | 1,391,505 |
| DAG IV DIRECT | 4,689,940 | 4,786,503 | 96,563 |
| DAG V COINV | 780,042 | 779,509 | (533) |
| DAG V DIRECT | 1,179,814 | 1,251,815 | 72,001 |
| DAG VENTURES II | 1,018,184 | 734,095 | $(284,089)$ |
| DAG VENTURES III | 2,490,152 | 2,402,777 | $(87,375)$ |
| DFJ MERCURY II | 3,113,979 | 3,689,725 | 575,746 |
| DRUG RYLTY II CO-INV | 952,370 | 940,081 | $(12,289)$ |
| DRUG RYLTY II DIRECT | 1,711,647 | 2,211,054 | 499,407 |
| EQT VI | 2,239,580 | 2,092,095 | $(147,485)$ |
| INSIGHT EQUITY II | 6,545,078 | 7,215,122 | 670,044 |
| INSIGHT MEZZANINEI | 214,380 | 236,030 | 21,650 |
| JMI EQUITY FUND VII | 2,409,018 | 2,367,192 | $(41,826)$ |
| LADDER | 4,425,874 | 5,857,855 | 1,431,981 |
| LITTLE JOHN FUND IV | 4,615,591 | 5,857,244 | 1,241,653 |
| LITTLEJOHN IV COINV | 731,260 | 1,633,877 | 902,617 |
| LONGWORTH VP III | 1,926,704 | 2,417,362 | 490,658 |
| MADRONA VENTURES V | 82,879 | 73,781 | $(9,098)$ |
| MESIROW FINANCIAL | 3,101,832 | 2,009,598 | $(1,092,234)$ |
| MIDOCEAN CO-INV | 1,151,137 | 1,869,643 | 718,506 |
| MIDOCEAN PTNS | 6,306,635 | 7,119,720 | 813,085 |
| MILLENNIUM TV II | 2,145,116 | 2,232,286 | 87,170 |
| OAKTREE EPF III | 4,674,096 | 4,753,904 | 79,808 |
| PATRIA BRAZIL IV | 220,325 | 229,182 | 8,857 |
| PENINSULA EQ PTNS | 831,942 | 838,648 | 6,706 |
| PROSPECTOR EQ CAP | 557,289 | 220,572 | $(336,717)$ |


| DESCRIPTION | COST | FAIR VALUE | UNREALIZED <br> GAIN(LOSS) |
| :--- | ---: | ---: | ---: |
| SP TRIDENT FUND V | $3,584,482$ | $3,841,518$ | 257,036 |
| SP TRIDENT V COINV | 866,361 | 972,713 | 106,352 |
| STEPSTONE SECONDARY | $10,380,120$ | $13,589,697$ | $3,209,577$ |
| STERLING GROUP III | $2,583,422$ | $3,929,628$ | $1,346,206$ |
| TOWERBROOK III | $4,355,467$ | $5,671,362$ | $1,315,895$ |
| TRUSTBRIDGE PARTN IV | $2,681,563$ | $2,775,413$ | 93,850 |
| VALLEY VENT III ANNX | 511,110 | 267,499 | $(243,611)$ |
| VALLEY VENTURES III | $\mathbf{1 , 5 4 8 , 4 0 5}$ | 660,442 | $(887,963)$ |
| VISTA EQUITY FUND IV | $4,308,126$ | $4,570,353$ | $\mathbf{2 6 2 , 2 2 7}$ |
| VIVO VENTURES VII | $\mathbf{1 , 9 4 1 , 2 2 8}$ | $\mathbf{2 , 4 0 6 , 8 9 8}$ | 465,670 |
| TOTAL PRIVATE EQUITY PORTFOLIO | $\mathbf{1 3 9 , 8 7 0 , 8 2 7}$ | $\mathbf{1 6 0 , 0 6 1 , 1 3 2}$ | $\mathbf{2 0 , 1 9 0 , 3 0 5}$ |

ABSOLUTE RETURN PORTFOLIO
YEAR ENDED JUNE 30, 2013

| DESCRIPTION | COST | FAIR VALUE | UNREALIZED <br> GAIN(LOSS) |
| :--- | ---: | ---: | ---: |
| DAVIDSON KEMPNER | $13,650,736$ | $15,233,116$ | $1,582,380$ |
| GSAM HF SEED 2011 | $8,757,783$ | $9,355,925$ | 598,142 |
| LSV SPEC OPP FD IV | $2,376,388$ | $4,457,703$ | $2,081,315$ |
| LSV SPEC OPPS FD III | $3,652,724$ | $7,122,518$ | $3,469,794$ |
| LUXOR CAP PARTNERS | $4,009,142$ | $4,609,217$ | 600,075 |
| OZ MASTER FUND | $\mathbf{1 3 , 6 5 0 , 7 3 6}$ | $\mathbf{1 7 , 1 8 4 , 4 4 7}$ | $3,533,711$ |
| TOTAL ABSOLUTE RETURN PORTFOLIO | $\mathbf{4 6 , 0 9 7 , 5 0 9}$ | $\mathbf{5 7 , 9 6 2 , 9 2 6}$ | $\mathbf{1 1 , 8 6 5 , 4 1 7}$ |


| DESCRIPTION | COST | FAIR VALUE | UNREALIZED <br> GAIN (LOSS) |
| :--- | ---: | ---: | ---: |
| ALTERNA I | $4,602,146$ | $6,296,262$ | $1,694,116$ |
| ALTERNA CORE CAPITAL ASSETS | 532,353 | 532,353 | 0 |
| CONSERVATION FORESTRY FUND I | $3,087,043$ | $2,875,424$ | $(211,619)$ |
| CONSERVATN FOREST II | $4,667,926$ | $5,126,594$ | 458,668 |
| DENHAM COMMODITY PARTNERS VI | $1,452,839$ | $1,367,375$ | $(85,464)$ |
| LD COMMODITIES ALPHA FD LTD | $4,875,263$ | $4,881,387$ | 6,124 |
| EIF US POWER FUND IV | $1,829,418$ | $1,072,501$ | $(756,917)$ |
| ENCAP ENERGY CAPITAL FUND IX | 384,035 | 378,686 | $(5,349)$ |
| TRUST IN ENERGY RECAP FUND | $1,865,366$ | $2,035,293$ | 169,927 |
| FUNDAMENTAL PARTNERS II | $6,022,090$ | $6,651,709$ | 629,619 |
| GEOSPHERE | 0 | 202,114 | 202,114 |
| HELIOS SUNBEAM OPPORTUNITIES | $4,875,263$ | $4,584,120$ | $(291,143)$ |
| JP MORGAN AIRRO FUND | $4,209,309$ | $5,143,378$ | 934,069 |
| JP MORGAN AIRRO SIDECAR LP | $4,403,037$ | $5,280,718$ | 877,681 |
| MACQUARIE EUR INFRASTRUCT III | $3,998,657$ | $5,533,854$ | $1,535,197$ |
| MACQUARIE INFRASTRUCTURE II US | $4,148,340$ | $6,101,628$ | $1,953,288$ |
| ORG SECONDARY - REAL ASSETS | $3,988,797$ | $5,819,586$ | $1,830,789$ |
| TAYLOR WOODS PARTNERS LP | $4,875,263$ | $5,392,195$ | 516,932 |
| FIRST TRUST ISE-REVERE NATURAL | $2,504,334$ | $2,494,818$ | $(9,516)$ |
| MARKET VECTORS GOLD MINERS ETF | 974,348 | 540,144 | $(434,204)$ |
| MARKET VECTORS - AGRIBUSINESS | $2,349,168$ | $2,309,971$ | $(39,197)$ |
| SPDR GOLD SHARES | $4,620,024$ | $3,402,859$ | $(1,217,165)$ |
| SPDR S\&P METALS \& MINING ETF | $2,534,005$ | $1,996,224$ | $(537,781)$ |
| ENERGY SELECT SECTOR SPDR FUND | $2,550,001$ | $2,750,005$ | 200,004 |
| UTILITIES SELECT SECTOR SPDR F | 976,939 | 978,188 | 1,249 |
| TVEST CROSSOVER III | $1,908,031$ | $1,774,612$ | $(133,419)$ |
| VIRIDIAN FUND LTD | $4,680,252$ | $4,166,238$ | $(514,014)$ |
| TOTAL REAL ASSETS PORTFOLIO | $\mathbf{8 2 , 9 1 4 , 2 4 7}$ | $89,688,236$ | $\mathbf{6 , 7 7 3 , 9 8 9}$ |
|  |  |  |  |

GTAA SECURITIES PORTFOLIO
YEAR ENDED JUNE 30, 2013

| DESCRIPTION |  | COST | FAIR VALUE | UNREALIZED <br> GAIN(LOSS) |
| ---: | ---: | ---: | ---: | ---: |
|  | BLACKROCK GBL ASCENT | $26,216,607$ | $25,220,467$ | $(996,140)$ |
|  | BLUETREND FUND | $17,697,738$ | $17,872,693$ | 174,955 |
|  | BRIDGEWATER GTAA | $30,454,731$ | $48,313,586$ | $17,858,855$ |
|  | BRIDGEWATER PAMM | $5,850,316$ | $5,755,872$ | $(94,444)$ |
|  | DE SHAW MULTI ASSET | $19,501,052$ | $23,454,665$ | $3,953,613$ |
| TOTAL ABSOLUTE RETURN PORTFOLIO | $\mathbf{9 9 , 7 2 0 , 4 4 4}$ | $\mathbf{1 2 0 , 6 1 7 , 2 8 3}$ | $\mathbf{2 0 , 8 9 6 , 8 3 9}$ |  |


| DESCRIPTION | COST | FAIR VALUE | UNREALIZED <br> GAIN(LOSS) |
| :--- | ---: | ---: | ---: |
| ALCION II | $3,119,799$ | $2,897,853$ | $(221,946)$ |
| APEX FUND I | $11,530,825$ | $4,392,807$ | $(7,138,018)$ |
| APEX FUND II | $1,983,890$ | $1,642,964$ | $(340,926)$ |
| AREA VEF DIR | $8,816,982$ | $9,142,829$ | 325,847 |
| BREP VI | $10,231,974$ | $14,474,376$ | $4,24,402$ |
| CATALYST EURO | $9,616,142$ | $8,071,365$ | $(1,544,777)$ |
| CLEARBELL II | 151,547 | 150,175 | $(1,372)$ |
| CLSA FUDO CAP II | $4,992,240$ | $5,523,206$ | 530,966 |
| DESERT TROON | $74,214,499$ | $60,251,424$ | $(13,963,075)$ |
| GREENFIELD VI | $3,350,874$ | $3,676,736$ | 325,862 |
| H2 CREDIT PARTNERS | $7,800,421$ | $9,555,740$ | $1,755,319$ |
| HARRISON ST RE | $10,616,298$ | $11,930,645$ | $1,314,347$ |
| HARRISON ST RE COINV | $1,462,579$ | $1,904,963$ | 442,384 |
| IRON POINT RE | $11,405,345$ | $13,029,518$ | $1,624,173$ |
| IRON POINT RE II | 591,071 | 566,942 | $(24,129)$ |
| LUBERT ADLER FD VIB B | $4,711,630$ | $4,907,062$ | 195,432 |
| MOUNT GRANGE | $5,874,500$ | $6,941,785$ | $1,067,285$ |
| ORG SECONDARY RE | $6,010,124$ | $7,619,952$ | $1,609,828$ |
| OWH BERKANA DEV | 978,795 | 423,173 | $(555,622)$ |
| OWH BERKANA HLD | $1,964,149$ | $2,180,218$ | 216,069 |
| PATRON IV | 358,392 | 377,934 | 19,542 |
| PEBBLECREEK | $7,420,150$ | $2,174,367$ | $(5,245,783)$ |
| PIVOTAL EQUITY | 487,526 | $1,813,595$ | $1,326,069$ |
| WALTON MEXICO | $7,693,165$ | $6,952,113$ | $(741,052)$ |
| WHISP CANYON OWC | $5,769,839$ | 975,052 | $(4,794,787)$ |
| TOTAL REAL ESTATE PORTFOLIO | $\mathbf{2 0 1 , 1 5 2 , 7 5 6}$ | $\mathbf{1 8 1 , 5 7 5}$ |  |
|  |  | $(19,575,962)$ |  |

RISK PARITY PORTFOLIO
YEAR ENDED JUNE 30, 2013

| DESCRIPTION | COST | FAIR VALUE | UNREALIZED <br> GAIN (LOSS) |
| :--- | ---: | ---: | ---: |
| ALL WEATHER PORTFOLIO | $23,388,010$ | $23,953,078$ | 565,068 |
| US TREAS-CPI INFLATION INDEX | $7,905,181$ | $7,458,672$ | $(446,509)$ |
| US TREAS BOND FUTURE (CBT) | 0 | 6,231 | 6,231 |
| USD/EUR SPOT OPTION 2013 | 5,850 | 5,818 | $(32)$ |
| TOTAL RISK PARITY PORTFOLIO | $\mathbf{3 1 , 2 9 9 , 0 4 1}$ | $\mathbf{3 1 , 4 2 3 , 7 9 9}$ | $\mathbf{1 2 4 , 7 5 8}$ |



October 28, 2013

The Board of Trustees
Arizona Corrections Officer Retirement Plan
3010 East Camelback Road, Suite 200
Phoenix, Arizona 85016-4416

## Re: Arizona Corrections Officer Retirement Plan

Attention: James Hacking, Administrator

The purpose of the annual actuarial valuation of the Arizona Corrections Officer Retirement Plan as of June 30, 2013 is to:

- Compute the liabilities associated with benefits likely to be paid on behalf of current retired and non-retired members.
- Compare assets with accrued liabilities to assess the funded condition.
- Compute the recommended employers' contribution for the Fiscal Year beginning July 1, 2014.

The valuation should not be relied upon for any other purpose.
The valuation process develops contribution rates that are sufficient to fund the plan's normal cost (i.e., the costs assigned by the valuation method to the year of service about to be rendered), as well as to fund unfunded actuarial accrued liabilities as a level percent of active member payroll over a finite period. The valuations were completed based upon population data, asset data, and plan provisions as of June 30, 2013.

The valuation was based upon information furnished by the plan's administrative staff concerning Retirement System benefits, financial transactions, and active members, terminated members, retirees and beneficiaries. We checked the data for internal and year to year consistency, but did not otherwise audit the data. As a result, we do not assume responsibility for the accuracy or completeness of the data provided. The actuary summarizes and tabulates population data in order to analyze longer-term trends. The following schedules were prepared by the actuary and provided to the administrative staff to be included in the "Actuarial Section" of the June 30, 2013 CAFR:

- Aggregate Actuarial Balance Sheet as of June 30, 2013
- Summary of Valuation Assumptions
- Solvency Test
- Summary of Active Member Data
- Summary of Retirees and Inactive Members
- Schedule of Experience Gain/(Loss) for year ended June 30, 2013

The Board of Trustees
October 28, 2013
Page 2

GRS did not prepare any of the schedules included in the "Financial Section" of the June 30, 2013 CAFR. However, we did provide certain pieces of information that were used in that section, such as the Actuarial Accrued Liability and the Actuarial Value of Assets.

Assets are valued on a market related basis. This method recognizes the assumed return fully each year and spreads each year's gain or loss above or below assumed return over a closed seven-year period. The continuing effect of prior asset losses was dampened by the 7-year smoothing period, and further offset by the effect of lower than assumed pay increases. There remains $\$ 143$ million of unrecognized investment losses that will in the absence of other gains, drive the contribution rate up over the next several years.

Actuarial valuations are based upon assumptions regarding future activity in specific risk areas including the rates of investment return and payroll growth, eligibility for the various classes of benefits, and longevity among retired lives. The Board of Trustees adopts these assumptions after considering the advice of the actuary and other professionals. The assumptions and the methods comply with the requirements of Statement No. 25 of the Governmental Accounting Standards Board. Each actuarial valuation takes into account all prior differences between actual and assumed experience in each risk area and adjusts the contribution rates as needed. The June 30, 2013 valuations were based upon assumptions that were recommended in connection with a study of experience covering the 2006-2011 period. Future actuarial measurements may differ significantly from those presented in the valuations due to such factors as experience differing from that anticipated by the actuarial assumptions, changes in plan provisions, changes in actuarial assumptions or methods, or changes in applicable law.

The June 30, 2013 actuarial valuation reflected the following changes:

- Assumption and method changes:
${ }^{\circ}$ Investment return was decreased from $8.00 \%$ to $7.85 \%$
${ }^{\circ}$ Wage inflation was decreased from $5.00 \%$ to $4.50 \%$.
In order to gain a full understanding of the actuarial condition of the plan, it is important to read the full actuarial report that we have provided to the System.

Gabriel Roeder Smith \& Company
One Towne Square
48.799.9000 phone

Suite 800

The Board of Trustees October 28, 2013 Page 3
Brian B. Murphy and Mark Buis are Members of the American Academy of Actuaries (M.A.A.A.), and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Respectfully submitted,


WhadBmi
Mark Buis, F.S.A, M.A.A.A

BBM/MB:sc

AGGREGATE ACTUARIAL BALANCE SHEET
YEAR ENDED JUNE 30, 2013

| ACTUARIAL ASSETS | 2013 |
| :--- | ---: |
| ACCRUED ASSETS |  |
| Member Accumulated Contributions | $382,417,196$ |
| Employer and Benefit Payment Reserves | $1,034,382,320$ |
| Funding Value Adjustment | $142,783,710$ |
| Total Accrued Assets | $\mathbf{1 , 5 5 9 , 5 8 3 , 2 2 6}$ |
|  |  |
| PROSPECTIVE ASSETS | $344,081,567$ |
| Member Contributions | $283,853,358$ |
| Employer Normal Costs | $770,654,535$ |
| Employer Unfunded Actuarial Accrued Liability | $\mathbf{1 , 3 9 8 , 5 8 9 , 4 6 0}$ |
| Total Prospective Assets |  |
| Total Actuarial Assets | $\mathbf{\$ 2 , 9 5 8 , 1 7 2 , 6 8 6}$ |
|  |  |
| ACTUARIAL PRESENT VALUES (LIABILITY) | $\mathbf{2 0 1 3}$ |
| PENSIONS IN PAYMENT STATUS |  |
| Pensions in payment status | $\mathbf{1 , 0 1 1 , 4 7 7 , 9 6 5}$ |
| PROSPECTIVE PAYMENTS | $\mathbf{1 , 7 8 5 , 9 0 0 , 0 1 8}$ |
| Retirement Payments | $75,852,333$ |
| Health Insurance Payments | $84,942,370$ |
| Member Contribution Refunds | $\mathbf{1 , 9 4 6 , 6 9 4 , 7 2 1}$ |
| Pension Increase Reserve |  |
| Total Prospective Payments |  |
| Total Actuarial Present Values (Liabilities) |  |

ACTUARIAL SECTION

## SUMMARY OF VALUATION ASSUMPTIONS

ECONOMIC ASSUMPTIONS
Interest Rate: 7.85\% (net of expenses)
Salary Increases: 4.50\% for inflation
HEALTHY MORTALITY TABLE
RP2000 Health Annuitant Mortality Table adjusted by 105\% for both males and females.
This assumption was first used for the FY2012 valuation of the System.
DISABLED MORTALITY TABLES
RP2000 Health Annuitant Mortality Table set forward 10 years for both males and females.
This assumption was first used for the FY2012 valuation of the System.

MORTALITY RATES AND LIFE EXPECTANCY
HEALTHY MORTALITY

|  | PROBABILITY OF <br> DYING NEXT YEAR |  | FUTURE LIFE <br> EXPECTANCY (YEARS) |  |
| :---: | :---: | :---: | :---: | :---: |
| SAMPLE <br> AGES | MEN | WOMEN | MEN | WOMEN |
| $\mathbf{5 0}$ | $.21 \%$ | $.17 \%$ | 30.37 | 33.14 |
| $\mathbf{5 5}$ | $.36 \%$ | $.27 \%$ | 25.76 | 28.47 |
| $\mathbf{6 0}$ | $.67 \%$ | $.51 \%$ | 21.35 | 23.95 |
| $\mathbf{6 5}$ | $1.27 \%$ | $.97 \%$ | 17.24 | 19.72 |
| $\mathbf{7 0}$ | $2.22 \%$ | $1.67 \%$ | 13.54 | 15.86 |
| $\mathbf{7 5}$ | $3.78 \%$ | $2.81 \%$ | 10.27 | 12.40 |
| $\mathbf{8 0}$ | $6.44 \%$ | $4.59 \%$ | 7.50 | 9.38 |

MORTALITY RATES AND LIFE EXPECTANCY
DISABLED MORTALITY

|  | PROBABILITY OF <br> SYMP <br> SAMPLE |  | FUTURE LIFE <br> AGES |  |
| :---: | :---: | :---: | :---: | :---: |
| MEN | WOMEN | MEN | WOMEN |  |
| $\mathbf{5 0}$ | $.67 \%$ | $.51 \%$ | 21.74 | 24.38 |
| $\mathbf{5 5}$ | $1.27 \%$ | $.98 \%$ | 17.61 | 20.12 |
| $\mathbf{6 0}$ | $2.22 \%$ | $1.67 \%$ | 13.88 | 16.23 |
| $\mathbf{6 5}$ | $3.78 \%$ | $2.81 \%$ | 10.57 | 12.74 |
| $\mathbf{7 0}$ | $6.44 \%$ | $4.59 \%$ | 7.75 | 9.68 |
| $\mathbf{7 5}$ | $11.08 \%$ | $7.74 \%$ | 5.49 | 7.09 |
| $\mathbf{8 0}$ | $18.34 \%$ | $13.17 \%$ | 3.86 | 5.15 |

ACTIVE MEMBERS MORTALITY TABLE
Sample rates of mortality for death-in-service set forward 0 years for both males and females.
This assumption was first used for the FY2012 valuation of the System.

MORTALITY RATES
ACTIVE MEMBERS

|  | PROBABILITY OF <br> SAMPLE <br> DYING NEXT YEAR |  |
| :---: | :---: | :---: |
| AGES |  |  |$\quad$| MEN | WOMEN |  |
| :---: | :---: | :---: |
| $\mathbf{5 0}$ | $.21 \%$ | $.17 \%$ |
| $\mathbf{5 5}$ | $.36 \%$ | $.27 \%$ |
| $\mathbf{6 0}$ | $.67 \%$ | $.51 \%$ |
| $\mathbf{6 5}$ | $1.27 \%$ | $.97 \%$ |

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
$80 \%$ 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 $80 \%$ Joint and Survivor form of payment with no reduction, for married members. $80 \%$ 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
$70 \%$ of future retirees are expected to utilize health care. $80 \%$ of those are assumed to be married.
FUTURE COST OF LIVING INCREASES
Future cost of living increases are not reflected in the liabilities. The 2012 Experience Study recommended reducing the expected rate of return by approximately $0.5 \%$ to account for this contingency.

## 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.

## AGGREGATE ACCRUED LIABILITIES

| YEAR ENDED JUNE 30, | ACTIVE MEMBER CONT. \$(1) | RETIRANTS AND BENEFICIARIES <br> \$(2) | ACTIVE <br> MEMBERS <br> (ER PORTION) $\$(3)$ | VALUATION ASSETS AVAILABLE FOR BENEFITS <br> \$(2) | PORTION OF ACCRUED LIABILITIES COVERED BY NET ASSETS AVAILABLE FOR BENEFITS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | (1) | (2) | (3) |
| 2004 | 165,145 | 278,403 | 352,227 | 833,621 | 100.00\% | 100.00\% | 100.00\% |
| 2005 | 178,353 | 332,199 | 395,473 | 872,981 | 100.00\% | 100.00\% | 91.60\% |
| 2006 | 193,819 | 384,513 | 402,876 | 919,868 | 100.00\% | 100.00\% | 84.80\% |
| 2007 | 213,688 | 430,172 | 466,941 | 940,126 | 100.00\% | 100.00\% | 63.40\% |
| 2008 | 296,317 | 504,462 | 589,584 | 1,027,026 | 100.00\% | 100.00\% | 68.90\% |
| 2009 | 314,100 | 586,596 | 683,597 | 1,309,124 | 100.00\% | 100.00\% | 59.70\% |
| 2010 | 345,122 | 689,910 | 686,973 | 1,382,144 | 100.00\% | 100.00\% | 50.50\% |
| 2011 | 353,892 | 823,664 | 831,013 | 1,466,750 | 100.00\% | 100.00\% | 34.80\% |
| 2012 | 373,726 | 918,771 | 939,047 | 1,512,989 | 100.00\% | 100.00\% | 23.50\% |
| 2013 | 382,417 | 1,011,478 | 936,343 | 1,559,583 | 100.00\% | 100.00\% | 17.70\% |

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 14,580 active members in the Plan as of June 30, 2013, compared to 14,991 for the prior year.

|  | YEARS OF SERVICE TO VALUATION DATE |  |  |  |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| ATTAINED <br> AGE | $\mathbf{0 - 4}$ | $\mathbf{5 - 9}$ | $\mathbf{1 0 - 1 4}$ | $\mathbf{1 5 - 1 9}$ | $\mathbf{2 0 - 2 4}$ | $\mathbf{2 5 - 2 9}$ | $\mathbf{3 0 +}$ | NO. | AVG. SALARY |
| $<25$ | 1,047 | 12 |  |  |  |  |  | 1,059 | 33,706 |
| $25-29$ | 1,797 | 538 | 3 |  |  |  |  | 2,338 | 35,698 |
| $30-34$ | 935 | 1,027 | 208 | 3 |  |  |  | 2,173 | 39,154 |
| $35-39$ | 601 | 772 | 585 | 134 |  |  |  | 2,092 | 42,111 |
| $40-44$ | 555 | 570 | 523 | 434 | 57 |  |  | 2,139 | 44,067 |
| $45-49$ | 369 | 410 | 358 | 314 | 180 | 17 |  | 1,648 | 45,133 |
| $50-54$ | 228 | 325 | 277 | 253 | 126 | 84 | 8 | 1,301 | 45,736 |
| $55-59$ | 180 | 218 | 256 | 180 | 97 | 53 | 12 | 996 | 45,522 |
| $60-69$ | 86 | 172 | 141 | 112 | 51 | 38 | 13 | 613 | 46,066 |
| $70+$ | 24 | 68 | 62 | 35 | 21 | 8 | 3 | 221 | 45,333 |
| Total | $\mathbf{5 , 8 2 2}$ | $\mathbf{4 , 1 1 2}$ | $\mathbf{2 , 4 1 3}$ | $\mathbf{1 , 4 6 5}$ | $\mathbf{5 3 2}$ | $\mathbf{2 0 0}$ | $\mathbf{3 6}$ | $\mathbf{1 4 , 5 8 0}$ | $\mathbf{4 1 , 4 3 1}$ |

COMPARATIVE SCHEDULE

| YEAR ENDED <br> JUNE 30, | ACTIVE <br> MEMEBERS | PAYROLL <br> +000 | AGE <br> (YEARS) | SERVICE <br> (YEARS) | AVERAGE <br> SALARY | INCREASE IN <br> AVG. PAY |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2004 | 11,583 | 381,942 | 38.7 | 6.0 | 32,974 | $0.90 \%$ |
| 2005 | 11,752 | 404,156 | 39.6 | 6.0 | 34,390 | $4.30 \%$ |
| 2006 | 11,914 | 437,744 | 39.3 | 6.2 | 36,742 | $6.80 \%$ |
| 2007 | 12,780 | 515,428 | 39.0 | 6.0 | 40,331 | $9.80 \%$ |
| 2008 | 14,716 | 642,621 | 39.6 | 7.0 | 43,668 | $8.30 \%$ |
| 2009 | 14,580 | 630,825 | 40.2 | 7.4 | 43,266 | $(0.90) \%$ |
| 2010 | 14,319 | 616,481 | 40.3 | 7.8 | 43,053 | $(0.50) \%$ |
| 2011 | 14,565 | 609,243 | 40.1 | 7.7 | 41,829 | $(2.80) \%$ |
| 2012 | 14,991 | 626,223 | 39.8 | 7.7 | 41,773 | $(0.10) \%$ |
| 2013 | 14,580 | 604,068 | 39.7 | 8.0 | 41,431 | $(0.80) \%$ |

## 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 | ANNUAL ALLOWANCES ADDED TO ROLES | ANNUAL PENSIONS | PERCENT INCREASE | $\begin{aligned} & \text { AVERAGE } \\ & \text { PENSION } \end{aligned}$ |
| 2004 | 32 | 205 | 1,536 | 435,860 | 5,033,961 | 26,261,143 | 21.30\% | 17,097 |
| 2005 | 61 | 258 | 1,733 | 3,761,718 | 8,829,800 | 31,329,225 | 19.30\% | 18,078 |
| 2006 | 46 | 232 | 1,919 | 2,405,616 | 4,807,848 | 37,272,180 | 19.00\% | 19,065 |
| 2007 | 68 | 272 | 2,123 | 971,820 | 6,365,640 | 42,666,000 | 14.00\% | 20,097 |
| 2008 | 100 | 405 | 2,428 | 2,197,553 | 10,594,200 | 51,062,647 | 19.70\% | 21,031 |
| 2009 | 118 | 281 | 2,591 | 1,532,671 | 9,559,615 | 59,089,591 | 15.70\% | 22,806 |
| 2010 | 52 | 369 | 2,908 | 850,373 | 11,529,838 | 69,769,056 | 18.10\% | 23,992 |
| 2011 | 48 | 396 | 3,256 | 880,983 | 12,749,577 | 81,637,650 | 17.00\% | 25,073 |
| 2012 | 64 | 284 | 3,476 | 1,078,072 | 7,358,770 | 87,918,348 | 7.70\% | 25,293 |
| 2013 | 69 | 403 | 3,810 | 1,418,636 | 9,965,863 | 96,465,575 | 9.70\% | 25,319 |

*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 30,2013 , there were 1,463 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 |  |
| $<30$ | 373 | 14 |  |  |  | 387 |  |
| $30-39$ | 354 | 81 | 18 | 1 |  | 454 |  |
| $40-44$ | 125 | 24 | 23 | 4 |  | 176 |  |
| $45-49$ | 92 | 13 | 17 | 3 |  | 125 |  |
| $50-54$ | 58 | 18 | 19 | 7 | 3 | 105 |  |
| $55-59$ | 58 | 18 | 35 | 12 | 2 | 125 |  |
| $60-69$ | 40 | 11 | 28 | 7 | 3 | 89 |  |
| $70+$ | 2 |  |  |  |  | 2 |  |
| Total | $\mathbf{1 , 1 0 2}$ | $\mathbf{1 7 9}$ | $\mathbf{1 4 0}$ | $\mathbf{3 4}$ | $\mathbf{8}$ | $\mathbf{1 , 4 6 3}$ |  |

## SCHEDULE OF EXPERIENCE GAIN (LOSS)

YEAR ENDED JUNE 30, 2013

| (1) UAAL* at start of year | $718,554,839$ |
| :--- | ---: |
| (2) | Normal cost from last valuation |
| (3) | Actual Contributions |
| (4) | Interest accrual |
| (5) | Expected UAAL before changes (1) +(2)-(3)+(4) |
| (6) | Change from benefit increases |
| (7) | Changes in actuarial methods \& actuary |
| (8) | Change in Reserve for future pension increases |
| (9) | Expected UAAL after changes: (5) + (6) + (7) + (8) |
| (10) | Actual UAAL at end of year |
| (11) | Experience Gain (Loss) (9)-(10) |

* Unfunded Actuarial Accrued Liability

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## Statistical Summary

Changes in Plan Net Position - Last Ten Fiscal Years
Schedule of Revenue by Source- Last Ten Fiscal Years 1 oc of 78
Schedule of Expenses by Type Last Ten Fiscal Years :a

- Defucus urom Plannet Position for Benefits and Refunds by Type 78

An V Valution issets v/s. Pension Liabilities - Last Ten Fiscal Years $\quad 79$



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## 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.


## CHANGES IN PLAN NET POSITION LAST 10 FISCAL YEARS

(IN THOUSANDS)

|  | 2013 | 2012 | 2011 | 2010 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ADDITIONS |  |  |  |  |  |
| Member Contributions | \$ 50,649 | \$ 51,968 | \$ 50,891 | \$ 54,481 | \$ 53,098 |
| Employer Contributions | 68,441 | 59,092 | 52,003 | 54,437 | 56,015 |
| Net Investment Gain (Loss) | 138,268 | $(15,165)$ | 193,212 | 129,267 | $(216,314)$ |
| Member Service Purchase | 814 | 851 | 777 | 733 | 429 |
| Transfers IN | 185 | 368 | 242 | 543 | 352 |
| Total Additions (Reductions) | 258,357 | 97,114 | 297,125 | 239,461 | $(106,419)$ |
| DEDUCTIONS |  |  |  |  |  |
| Pension \& Insurance Benefits | 97,643 | 90,867 | 79,058 | 66,412 | 57,697 |
| Refunds To Terminated Members | 31,179 | 25,744 | 24,928 | 19,775 | 14,879 |
| Administrative Expenses | 1,267 | 1,183 | 1,185 | 915 | 1,065 |
| Transfers OUT | 841 | 964 | 945 | 586 | 512 |
| Total Deductions | 130,930 | 118,758 | 106,116 | 87,688 | 74,153 |
| NET INCREASE (DECREASE) | 127,427 | $(21,644)$ | 191,009 | 151,773 | $(180,572)$ |
| NET POSITION HELD IN TRUST |  |  |  |  |  |
| Beginning of Fiscal Year, July 1 | 1,282,154 | 1,303,798 | 1,112,789 | 961,016 | 1,141,588 |
| End of Fiscal Year, June 30 | \$ 1,409,581 | \$ 1,282,154 | \$1,303,798 | \$1,112,789 | \$961,016 |
|  | 2008 | 2007 | 2006 | 2005 | 2004 |
| ADDITIONS |  |  |  |  |  |
| Member Contributions | \$ 111,098 | \$ 41,355 | \$ 37,134 | \$34,590 | \$31,338 |
| Employer Contributions | 150,729 | 24,623 | 24,028 | 16,292 | 14,555 |
| Net Investment Gain (Loss) | $(68,040)$ | 144,850 | 64,198 | 66,277 | 91,300 |
| Member Service Purchase | 871 | 930 | 994 | 719 | 0 |
| Transfers IN | 3,217 | 456 | 1,234 | 1,071 | 1,460 |
| Total Additions (Reductions) | 197,875 | 212,214 | 127,588 | 118,948 | 138,653 |
| DEDUCTIONS |  |  |  |  |  |
| Pension \& Insurance Benefits | 51,046 | 41,630 | 36,709 | 31,098 | 26,624 |
| Refunds To Terminated Members | 16,212 | 16,634 | 15,741 | 16,653 | 14,053 |
| Administrative Expenses | 1,103 | 732 | 674 | 922 | 541 |
| Transfers OUT | 864 | 2,063 | 1,555 | 637 | 1,139 |
| Total Deductions | 69,225 | 61,060 | 54,679 | 49,310 | 42,357 |
| NET INCREASE (DECREASE) | 128,650 | 151,155 | 72,909 | 69,639 | 96,297 |
| NET POSITION HELD IN TRUST |  |  |  |  |  |
| Beginning of Fiscal Year, July 1 | 1,012,938 | 861,783 | 788,874 | 719,235 | 622,939 |
| End of Fiscal Year, June 30 | \$1,141,588 | \$1,012,938 | \$861,783 | \$788,874 | \$719,235 |

*See Note 14.

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 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| 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 | $54,480,961$ | $54,437,078$ | $7.49 \%$ | $129,267,190$ | $1,276,087$ | $239,461,316$ |
| 2011 | $50,891,168$ | $52,002,731$ | $8.57 \%$ | $193,212,289$ | $1,018,286$ | $297,124,474$ |
| 2012 | $51,967,894$ | $59,092,404$ | $9.50 \%$ | $(15,165,360)$ | $1,219,350$ | $97,114,288$ |
| 2013 | $50,648,775$ | $68,440,925$ | $11.31 \%$ | $138,267,533$ | 999,077 | $258,356,310$ |

*See Note 14.

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> TO OTHER <br> PLANS | TOTAL |
| :---: | ---: | ---: | ---: | ---: | ---: |
| 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 | $87,688,129$ |
| 2011 | $79,058,399$ | $1,184,756$ | $24,927,660$ | 945,170 | $106,115,985$ |
| 2012 | $90,868,234$ | $1,182,692$ | $25,743,514$ | 964,033 | $118,758,473$ |
| 2013 | $97,643,078$ | $1,266,690$ | $31,179,499$ | 840,629 | $130,929,896$ |

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 | TOTAL <br> BENEFITS | DROP <br> PROGRAM | SEPARATION <br> REFUNDS | HEALTH <br> INSURANCE <br> SUBSIDF* |
| :---: | :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2004 | $19,442,835$ | $3,677,576$ | $1,178,761$ | $24,299,172$ | - | $14,053,002$ | $2,324,447$ |
| 2005 | $23,519,992$ | $3,871,675$ | $1,305,434$ | $28,697,101$ | - | $16,652,638$ | $2,400,849$ |
| 2006 | $28,928,172$ | $4,472,559$ | $1,449,215$ | $34,849,946$ | - | $15,741,460$ | $1,858,582$ |
| 2007 | $33,341,839$ | $4,860,093$ | $1,514,939$ | $39,716,871$ | - | $16,634,320$ | $1,913,186$ |
| 2008 | $39,831,873$ | $5,934,454$ | $1,625,680$ | $47,392,007$ | $1,580,656$ | $16,211,929$ | $2,073,245$ |
| 2009 | $46,752,709$ | $6,685,021$ | $1,805,702$ | $55,243,432$ | 245,457 | $14,879,342$ | $2,207,889$ |
| 2010 | $54,722,001$ | $6,740,427$ | $1,914,842$ | $63,377,270$ | 662,404 | $19,774,873$ | $2,372,104$ |
| 2011 | $65,448,261$ | $7,467,220$ | $2,105,741$ | $75,021,222$ | $1,338,048$ | $24,927,660$ | $2,699,129$ |
| 2012 | $74,822,948$ | $8,602,328$ | $2,259,626$ | $85,684,902$ | $2,292,891$ | $25,743,514$ | $2,890,441$ |
| 2013 | $81,829,318$ | $9,043,592$ | $2,306,541$ | $93,179,451$ | $1,633,892$ | $31,179,499$ | $2,829,735$ |

[^1]

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 |
| :---: | ---: | ---: | ---: | ---: |
| 2004 | 833,621 | $(37,846)$ | 795,775 | $104.80 \%$ |
| 2005 | 872,981 | $(9,190)$ | 863,791 | $101.10 \%$ |
| 2006 | 919,867 | 61,340 | 981,207 | $93.70 \%$ |
| 2007 | 940,126 | 170,675 | $1,110,801$ | $84.60 \%$ |
| 2008 | $1,207,026$ | 183,337 | $1,390,363$ | $86.80 \%$ |
| 2009 | $1,309,124$ | 275,169 | $1,584,293$ | $82.60 \%$ |
| 2010 | $1,382,144$ | 339,862 | $1,722,006$ | $80.30 \%$ |
| 2011 | $1,466,750$ | 541,820 | $2,008,569$ | $73.00 \%$ |
| 2012 | $1,512,989$ | 718,555 | $2,231,544$ | $67.80 \%$ |
| 2013 | $1,559,583$ | 770,655 | $2,330,238$ | $66.90 \%$ |

## SCHEDULE OF BENEFITS BY TYPE AND RANGE

FISCAL YEAR 2013

| MONTHLY <br> BENEFIT <br> AMOUNT | NORMAL <br> BENEFITS | SURVIVOR <br> BENEFITS | DISABILITY <br> BENEFITS | TOTAL <br> BENEFITS |
| :---: | ---: | ---: | ---: | ---: |
| Under 1,000 | 12 | 7 | 5 | 24 |
| $1,001-2,000$ | 285 | 100 | 5 | 390 |
| $2,001-3,000$ | 410 | 262 | 24 | 696 |
| $3,001-4,000$ | 636 | 111 | 58 | 805 |
| $4,001-5,000$ | 800 | 24 | 16 | 840 |
| $5,001-6,000$ | 461 | 18 | 4 | 483 |
| $6,001-7,000$ | 248 | 6 | 2 | 256 |
| $7,001-8,000$ | 124 | 1 | 0 | 125 |
| $8,001-9,000$ | 82 | 1 | 1 | 84 |
| $9,001-10,000$ | 46 | 0 | 0 | 46 |
| Over 10,001 | 61 | 0 | 0 | 61 |
| Totals | $\mathbf{3 , 1 6 5}$ | $\mathbf{5 3 0}$ | $\mathbf{1 1 5}$ | $\mathbf{3 , 8 1 0}$ |



CONTRIBUTION RATES
LAST TEN FISCAL YEARS

| YEAR <br> ENDING <br> JUNE 30, | AVERAGE <br> EMPLOYER <br> RATE | EMPLOYEE <br> RATE |
| :---: | ---: | ---: |
| 2004 | $3.95 \%$ | $8.50 \%$ |
| 2005 | $4.07 \%$ | $8.50 \%$ |
| 2006 | $5.47 \%$ | $8.50 \%$ |
| 2007 | $4.46 \%$ | $7.96 \%$ |
| 2008 | $6.72 \%$ | $7.93 \%$ |
| 2009 | $8.65 \%$ | $7.96 \%$ |
| 2010 | $7.49 \%$ | $7.96 \%$ |
| 2011 | $8.57 \%$ | $7.96 \%$ |
| 2012 | $9.50 \%$ | $8.41 \%$ |
| 2013 | $11.31 \%$ | $8.41 \%$ |



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 |
| :---: | ---: | ---: | ---: | ---: |
| 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 |
| 2011 | 14,565 | 3,256 | 1,300 | 19,121 |
| 2012 | 14,991 | 3,476 | 1,101 | 19,568 |
| 2013 | 14,580 | 3,810 | 1,463 | 19,853 |



PRINCIPAL PARTICIPATING EMPLOYERS
LAST TEN FISCAL YEARS

| EMPLOYER | 2013 |  |  | 2004 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 | 8,786 | 1 | 60.26\% | 8,198 | 1 | 70.77\% |
| MARICOPA COUNTY | 2,089 | 2 | 14.33\% | 1,318 | 2 | 11.38\% |
| PIMA COUNTY | 475 | 3 | 3.26\% | 427 | 3 | 3.69\% |
| PINAL COUNTY | 265 | 4 | 1.82\% | 113 | 6 | 0.98\% |
| YAVAPAI COUNTY | 162 | 5 | 1.11\% | 190 | 4 | 1.64\% |
| YUMA COUNTY | 143 | 6 | 0.98\% | 150 | 5 | 1.30\% |
| MOHAVE COUNTY | 112 | 7 | 0.77\% | 74 | 7 | 0.64\% |
| COCONINO COUNTY | 98 | 8 | 0.67\% | 70 | 8 | 0.60\% |
| GILA COUNTY | 63 | 9 | 0.43\% | 45 | 10 | 0.39\% |
| COCHISE COUNTY | 55 | 10 | 0.38\% | 66 | 9 | 0.57\% |
| ALL OTHERS | 2,332 |  | 15.99\% | 932 |  | 8.04\% |
| TOTAL | 14,580 |  | 100.00\% | 11,583 |  | 100.00\% |

SUMMARY OF BENEFIT INCREASES
LAST TEN FISCAL YEARS

| YEAR <br> ENDING <br> UUNE 30, | EIELDESS <br> STATUTE | EXCESS <br> EARNINGS | UTILIZED TO <br> FUND COLA | EXCESS <br> EARNINGS <br> AVAILABLE | BENEFIT <br> INCREASE <br> 4\% CAP |
| :---: | ---: | ---: | ---: | ---: | ---: |
| 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 | $0.00 \%$ | - | $(11,506,060)$ | $33,292,645$ | $4.00 \%$ |
| 2007 | $7.77 \%$ | $35,123,022$ | $(13,572,783)$ | $60,426,061$ | $4.00 \%$ |
| 2008 | $0.00 \%$ | - | $(15,533,554)$ | $40,633,678$ | $4.00 \%$ |
| 2009 | $0.00 \%$ | - | $(18,197,108)$ | $15,124,946$ | $4.00 \%$ |
| 2010 | $4.47 \%$ | $22,836,733$ | $(21,264,230)$ | $18,734,779$ | $4.00 \%$ |
| 2011 | $0.00 \%$ | - | $(21,989,010)$ | - | $4.00 \%$ |
| 2012 | - | - | - | - | - |
| 2013 | - | - | - | - | - |

SUMMARY OF GROWTH OF THE SYSTEM
LAST TEN FISCAL YEARS

| YEAR <br> ENDING <br> JUNE 30, | TOTAL <br> ASSEES <br> AT BOOK | INVESTMENT <br> REALIZED <br> EARNINGS | ASSUMED <br> ACTUARIAL <br> YIELD | NET <br> EFFECTIVE <br> YIELD | AVERAGE <br> EMPLOYER <br> RATE |
| :---: | ---: | ---: | ---: | ---: | ---: |
| 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 | $1,095,569,678$ | $(322,346)$ | $8.50 \%$ | $1.50 \%$ | $7.49 \%$ |
| 2011 | $1,162,499,803$ | $56,158,378$ | $8.25 \%$ | $6.43 \%$ | $8.57 \%$ |
| 2012 | $1,205,454,963$ | $38,880,876$ | $8.00 \%$ | $4.27 \%$ | $9.50 \%$ |
| 2013 | $1,283,208,335$ | $68,918,508$ | $7.85 \%$ | $7.20 \%$ | $11.31 \%$ |

BENEFITS PAYABLE JUNE 30, 2013
BY TYPE OF BENEFIT

| PENSIONS <br> BEING PAID | NO. | ANNUAL <br> PENSIONS | AVERAGE <br> PENSIONS |
| :--- | ---: | ---: | ---: |
| RETIRED MEMBERS |  |  |  |
| $\quad$ Service Pensions | 3,164 | $85,438,594$ | 27,003 |
| Disability Pensions | 115 | $2,342,222$ | 20,367 |
| Total Retired Members | $\mathbf{3 , 2 7 9}$ | $\mathbf{8 7 , 7 8 0 , 8 1 6}$ | $\mathbf{2 6 , 7 7 1}$ |
|  |  |  |  |
| SURVIVORS OF MEMBERS | 494 | $8,191,426$ | 16,582 |
| Spouses | 37 | 493,333 | 13,333 |
| Children w/Guardians | $\mathbf{5 3 1}$ | $\mathbf{8 , 6 8 4 , 7 5 9}$ | $\mathbf{1 6 , 3 5 5}$ |
| Total Survivors of Members |  |  |  |
| TOTAL PENSIONS BEING PAID | $\mathbf{3 , 8 1 0}$ | $\mathbf{9 6 , 4 6 5 , 5 7 5}$ | $\mathbf{2 5 , 3 1 9}$ |


|  | AVERAGE <br> AGE | AVERAGE <br> SERVICE | AVG. AGE AT <br> RETIREMENT |
| :--- | ---: | ---: | ---: |
| Normal retired members | 63.5 | 19.8 | 56.7 |
| Disability retired members | 55.6 | 9.6 | 45.7 |
| Spouse beneficiaries | 65.7 | 12.2 | 52.2 |

## AVERAGE MONTHLY BENEFIT AMOUNTS

LAST TEN FISCAL YEARS
YEARS OF CREDITED SERVICE BY CATEGORY

| YEAR ENDING JUNE 30, | YEARS OF CREDITED SERVICE BY CATEGORY |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | <5 | 5-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30+ | $\begin{array}{r} \text { ALL } \\ \text { MEMBERS } \end{array}$ |
| 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 |
| 2011 | Average monthly benefit | 1,235 | 1,172 | 1,169 | 1,733 | 2,364 | 3,424 | 4,322 | 2,089 |
|  | Average final average salary |  |  |  |  |  |  |  | 3,682 |
|  | Number of retirees | 138 | 176 | 715 | 458 | 1,272 | 399 | 98 | 3,256 |
| 2012 | Average monthly benefit | 1,233 | 1,185 | 1,168 | 1,733 | 2,363 | 3,392 | 4,435 | 2,108 |
|  | Average final average salary |  |  |  |  |  |  |  | 3,743 |
|  | Number of retirees | 142 | 170 | 740 | 477 | 1,406 | 434 | 107 | 3,476 |
| 2013 | Average monthly benefit | 1,243 | 1,189 | 1,176 | 1,721 | 2,357 | 3,373 | 4,333 | 2,110 |
|  | Average final average salary |  |  |  |  |  |  |  | 3,808 |
|  | Number of retirees | 148 | 169 | 811 | 524 | 1,566 | 477 | 115 | 3,810 |

* 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, 2013

| SYSTEM | 2012 <br> BALLANCES | RESERVE <br> TRANSFERS | CONTRIBUTIONS <br> RECEIVED | WITHDRAWN <br> MEMBERS | 2013 <br> BALANCES |
| :--- | ---: | ---: | ---: | ---: | ---: |
| ADMIN. OFFICE OF THE COURT | $71,102,740$ | $(3,350,334)$ | $8,481,808$ | $(1,488,428)$ | $74,745,785$ |
| APACHE COUNTY - DETENTION | 299,359 | 232 | 51,608 | $(67,384)$ | 283,815 |
| CITY OF AVONDALE - DETENTION | 291,035 | 0 | 46,391 | 0 | 337,426 |
| CITY OF SOMERTON - DISPATCHERS | 108,487 | 0 | 15,223 | $(9,707)$ | 114,003 |
| COCHISE COUNTY - DETENTION | $1,242,393$ | $(58,046)$ | 175,968 | $(109,487)$ | $1,250,828$ |
| COCONINO COUNTY - DETENTION | $1,689,715$ | $(166,776)$ | 369,593 | $(73,297)$ | $1,819,235$ |
| DEPARTMENT OF CORRECTIONS - DETENTION | $200,804,052$ | $(12,346,338)$ | $28,059,221$ | $(14,033,288)$ | $202,483,646$ |
| DEPARTMENT OF PUBLICSAFETY | $2,407,155$ | $(71,862)$ | 221,803 | $(73,034)$ | $2,484,062$ |
| D.P.S. - DETENTION | 0 | 0 | 14,523 | 0 | 14,523 |
| DEPT OF JUVENILE CORRECTIONS-DETENTION | $12,883,604$ | $(822,935)$ | $1,657,549$ | $(930,598)$ | $12,787,620$ |
| GILA COUNTY - DETENTION | 996,733 | $(42,920)$ | 193,300 | $(49,086)$ | $1,098,027$ |
| GILA COUNTY - DISPATCHERS | 287,327 | $(40,622)$ | 21,738 | $(19,868)$ | 248,575 |
| GRAHAM COUNTY - DETENTION | 490,059 | $(2,110)$ | 93,219 | $(62,011)$ | 519,156 |
| GRAHAM COUNTY - DISPATCHERS | 144,759 | 0 | 21,885 | $(23,324)$ | 143,320 |
| MARICOPA COUNTY - DETENTION | $52,272,346$ | $(2,804,393)$ | $7,501,303$ | $(1,659,291)$ | $55,309,966$ |
| MOHAVE COUNTY - DETENTION | $1,386,242$ | $(55,530)$ | 319,153 | $(248,656)$ | $1,401,210$ |
| NAVAJO COUNTY - DETENTION | 788,347 | $(72,075)$ | 150,264 | $(54,598)$ | 811,939 |
| PIMA COUNTY - DETENTION | 347,488 | 0 | 34,575 | $(10,629)$ | 371,434 |
| PINAL COUNTY - DETENTION | $12,279,282$ | $(773,979)$ | $1,694,174$ | $(663,542)$ | $12,535,935$ |
| PINAL COUNTY - DISPATCHERS | $6,739,773$ | $(223,135)$ | $1,099,703$ | $(271,464)$ | $7,344,877$ |
| SANTA CRUZ COUNTY - DETENTION | 468,590 | $(6,391)$ | 58,216 | $(34,600)$ | 485,814 |
| TOWN OF MARANA - DISPATCHERS | 419,395 | $(4,654)$ | 120,096 | $(72,806)$ | 462,031 |
| ORO VALLEY - DISPATCHERS | 308,101 | 0 | 38,219 | $(34,529)$ | 311,791 |
| TOWN OF WICKENBURG-DISPATCHERS | 93,793 | 0 | 13,678 | 0 | 107,470 |
| YAVAPAI COUNTY - DETENTION | $3,152,352$ | $(62,855)$ | 521,096 | $(252,335)$ | $3,358,258$ |
| YAVAPAI COUNTY - DISPATCHERS | 148,334 | 0 | 22,190 | $(27,745)$ | 142,779 |
| YUMA COUNTY - DETENTION | $2,684,342$ | $(98,757)$ | 466,775 | $(131,859)$ | $2,920,501$ |
| TOTAL | $373,835,801$ | $(21,003,481)$ | $51,463,274$ | $(20,401,566)$ | $383,894,028$ |

SCHEDULE OF CHANGES IN EMPLOYER RESERVE BALANCES AND UNFUNDED ACTUARIAL ACCRUED LIABILITIES
FISCAL YEAR ENDED JUNE 30， 2013
UNFUNDED
AAL 2012

|  |
| :---: |









## 2012 BALANCES $\begin{gathered}\text { RESERVE } \\ \text { TRANSFERS }\end{gathered} \quad \begin{gathered}\text { CONTRIB } \\ \text { RECEIVED }\end{gathered}$


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| $\begin{array}{c}\text { SUBSIDY } \\ \text { PAYMENTS }\end{array}$ | $\begin{array}{c}\text { DROP } \\ \text { PAYMENT }\end{array}$ |
| :---: | :---: |

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－$(600)$
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SCHEDULE OF CHANGES IN EMPLOYER EARNINGS DISTRIBUTION

| SYSTEM | $\begin{gathered} 2012 \\ \text { EMPLOYER } \\ \text { RESERVE } \end{gathered}$ | $\begin{gathered} 2013 \\ \text { EMPLOYER } \\ \text { RESERVE } \end{gathered}$ | $\begin{array}{r} 2012 \\ \text { MEMBER } \\ \text { RESERVE } \end{array}$ | $\begin{array}{r} 2013 \\ \text { MEMBER } \\ \text { RESERVE } \end{array}$ | COMBINED RESERVES | $\begin{aligned} & \text { MEAN } \\ & \text { BALANCE } \end{aligned}$ | FACTOR | INVESTMENT EARNINGS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ADMIN. OFFIE OF THE COURT | 173,765,140 | 176,007,677 | 71,102,740 | 74,745,785 | 495,621,341 | 123,905,335 | 19.400\% | 26,578,334 |
| APACHECOUNTY - CORP | 957,942 | 857,525 | 299,359 | 283,815 | 2,398,642 | 599,661 | 0.094\% | 128,630 |
| CITY OF AVONDALE - Detention | 393,607 | 444,051 | 291,035 | 337,426 | 1,466,118 | 366,530 | 0.057\% | 78,622 |
| CITY OF SOMERTON - DISPATCHERS | 234,045 | 225,912 | 108,487 | 114,003 | 682,447 | 170,612 | 0.027\% | 36,597 |
| COCHISE COUNTY - CORP | 3,354,576 | 3,196,524 | 1,242,393 | 1,250,828 | 9,044,321 | 2,261,080 | 0.354\% | 485,013 |
| COCONINO COUNTY - CORP | 3,484,180 | 3,588,225 | 1,689,715 | 1,819,235 | 10,581,356 | 2,645,339 | 0.414\% | 567,439 |
| DEPARTMENT OF CORRECTIONS - CORP | 495,223,587 | 477,297,388 | 200,804,052 | 202,483,646 | 1,375,808,673 | 343,952,168 | 53.853\% | 73,779,516 |
| DEPARTMENT OF PUBLLC SAFETY | 4,271,272 | 4,364,446 | 2,407,155 | 2,484,062 | 13,526,935 | 3,381,734 | 0.529\% | 725,399 |
| DEPARTMENT OF PUBLIC SAFETY DETENTION | 0 | $(7,177)$ | 0 | 14,523 | 7,346 | 1,837 | 0.000\% | 394 |
| DEPT OF JUVENLLE CORRECTIONS-CORP | 44,335,047 | 41,186,585 | 12,883,604 | 12,787,620 | 111,192,855 | 27,798,214 | 4.352\% | 5,962,860 |
| GILA COUNTY - CORP | 1,881,936 | 2,015,650 | 996,733 | 1,098,027 | 5,992,346 | 1,498,087 | 0.235\% | 321,347 |
| GILA COUNTY - DISPATCHERS | 921,625 | 894,327 | 287,327 | 248,575 | 2,351,854 | 587,964 | 0.092\% | 126,121 |
| GRAHAM COUNTY - DETENTION | 1,123,060 | 1,099,581 | 490,059 | 519,156 | 3,231,856 | 807,964 | 0.127\% | 173,312 |
| GRAHAM COUNTY - DISPATCHERS | 238,769 | 236,703 | 144,759 | 143,320 | 763,550 | 190,888 | 0.030\% | 40,946 |
| MARICOPA COUNTY - CORP | 112,199,566 | 111,998,880 | 52,272,346 | 55,309,966 | 331,780,758 | 82,945,189 | 12.987\% | 17,792,171 |
| MOHAVE COUNTY - CORP | 3,875,322 | 3,935,230 | 1,386,242 | 1,401,210 | 10,598,004 | 2,649,501 | 0.415\% | 568,332 |
| NAVAJO COUNTY - CORP | 2,091,000 | 2,147,343 | 788,347 | 811,939 | 5,838,629 | 1,459,657 | 0.229\% | 313,104 |
| PIMA COUNTY - CORP | 31,613,198 | 30,291,605 | 12,279,282 | 12,535,935 | 86,720,019 | 21,680,005 | 3.394\% | 4,650,473 |
| PINAL COUNTY - CORP | 11,709,120 | 12,486,575 | 6,739,773 | 7,344,877 | 38,280,345 | 9,570,086 | 1.498\% | 2,052,833 |
| PINAL COUNTY - DISPATCHERS | 733,036 | 730,056 | 468,590 | 485,814 | 2,417,495 | 604,374 | 0.095\% | 129,641 |
| SANTA CRUZ COUNTY - CORP | 1,456,521 | 1,428,532 | 419,395 | 462,031 | 3,766,480 | 941,620 | 0.147\% | 201,982 |
| TOWN OF MARANA - DISPATCHERS | 334,331 | 360,459 | 308,101 | 311,791 | 1,314,681 | 328,670 | 0.051\% | 70,501 |
| ORO VALLEY - DISPATCHERS | 646,775 | 632,455 | 347,488 | 371,434 | 1,998,153 | 499,538 | 0.078\% | 107,154 |
| TOWN OF WICKENBURG-DISPATCHERS | 242,646 | 238,729 | 93,793 | 107,470 | 682,638 | 170,660 | 0.027\% | 36,607 |
| Yavapal county - CORP | 5,486,003 | 5,427,738 | 3,152,352 | 3,358,258 | 17,424,351 | 4,356,088 | 0.682\% | 934,403 |
| Yavapal county - DISPatchers | 431,265 | 406,570 | 148,334 | 142,779 | 1,128,947 | 282,237 | 0.044\% | 60,541 |
| YUMA COUNTY - CORP | 7,314,239 | 7,193,563 | 2,684,342 | 2,920,501 | 20,112,644 | 5,028,161 | 0.787\% | 1,078,567 |
| TOTALS | 908,317,806 | 888,685,150 | 373,835,801 | 383,894,028 | 2,554,732,786 | 638,683,197 | 100.000\% | 137,000,843 |

[^2]
## PARTICIPATING EMPLOYERS

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

CITY OF AVONDALE - DETENTION OFFICERS

APACHE COUNTY - AOC
COCHISE COUNTY - AOC
COCONINO COUNTY - AOC
GILA COUNTY - AOC
GRAHAM COUNTY - AOC
GREENLEE COUNTY - AOC
LA PAZ COUNTY - AOC
MARICOPA COUNTY - AOC
MOHAVE COUNTY - AOC
NAVAJO COUNTY - AOC
PIMA COUNTY - AOC
PINAL COUNTY - AOC
SANTA CRUZ COUNTY - AOC
YAVAPAI COUNTY - AOC
YUMA COUNTY - AOC

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

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[^0]:    * Total Employer Contributions received during FY2007 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 FY2008 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.

[^1]:    * Health Insurance Subsidy payments are reported as an offset to Employer Contributions. The detail appears in the notes below the Schedule of Employer Contributions on page 39.

[^2]:    * See Note 14.

