

**ARIZONA CORRECTIONS OFFICER RETIREMENT PLAN
CONSOLIDATED REPORT**

JUNE 30, 2012

October 12, 2012

The Board of Trustees
Arizona Corrections Officer Retirement Plan
Phoenix, Arizona

Re: Arizona Corrections Officer Retirement Plan Actuarial Valuation as of June 30, 2012

Ladies and Gentlemen:

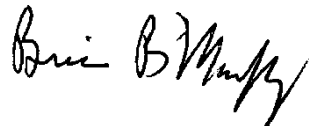
The results of the June 30, 2012 annual actuarial valuation of members covered by the Arizona Corrections Officer Retirement Plan (CORP) are presented in this report. The purpose of the valuation was to measure the System's funding progress, provide actuarial information in connection with applicable Governmental Accounting Standards Board Statements and to determine the employer contribution for the 2013-2014 fiscal year. This report should not be relied upon for any other purpose. This report may be distributed to parties other than the System only in its entirety and only with the permission of the Board.

The valuation was based upon information, furnished by the State Retirement System, concerning Retirement System benefits, financial transactions, and individual members, terminated members, retirees and beneficiaries. Data was checked for internal and year to year consistency, but was not otherwise audited by us. As a result, we are unable to assume responsibility for the accuracy or completeness of the data provided.

Future actuarial measurements may differ significantly from those presented in this report due to such factors as experience differing from that anticipated by actuarial assumptions, changes in plan provisions, actuarial assumptions/methods or applicable law. Due to the limited scope of this assignment, we did not perform an analysis of the potential range of future measurements.

To the best of our knowledge, this report is complete and accurate and the valuation was conducted in accordance with standards of practice prescribed by the Actuarial Standards Board and in compliance with the applicable state statutes. The undersigned are independent of the plan sponsor and are Members of the American Academy of Actuaries (MAAA) who meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. It is our opinion that the actuarial assumptions used for the valuation produce results which are reasonable.

Respectfully submitted,



Brian B. Murphy, FSA, EA, MAAA



Mark Buis, FSA, EA, MAAA

BBM/MB:mrb

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EXECUTIVE SUMMARY/BOARD SUMMARY

1. Required Employer Contributions to Support Retirement Benefits

The computed employer contribution and funded status for the fiscal year beginning July 1, 2013 is shown below.

| | Contribution | Funded Status |
|---------|---------------------|----------------------|
| Average | 13.68% | 67.8% |

2. Contribution Rate Comparison

The chart below compares the results for this valuation of the Retirement System with the results of the prior year's valuation:

| Valuation Date | Contribution | Funded Status |
|-----------------------|---------------------|----------------------|
| 6/30/2011 | 11.31% | 73.0% |
| 6/30/2012 | 13.68% | 67.8% |

3. Reasons for Change

There are three general reasons why contribution rates change from one valuation to the next. The first is a change in the benefits or eligibility conditions of the plan. The second is a change in the valuation assumptions or methods used to predict future occurrences. The third is the difference during the year between the plan's actual experience and what the assumptions predicted.

EXECUTIVE SUMMARY/BOARD SUMMARY

The following method and assumption changes were reflected in the valuation:

- The recommendations of the assumption study completed in May 2012, including demographic assumption changes.
- The investment return assumption was decreased to 8.00% from 8.25%.
- For the June 30, 2013 valuation, the Board adopted an investment return of 7.85% and wage inflation of 4.50%.

The contribution rate increased from 11.31% of payroll last year to 13.68% of payroll this year for the following reasons:

- Continued phase-in of asset losses from prior years.
- Changes in the actuarial assumptions.

4. Plan Experience

Experience during the year ended June 30, 2012 was overall unfavorable. On a market value basis, the System's return for the year ended June 30, 2012 was -0.8%. However, the market value smoothing techniques used in this valuation of the System recognize both past and present investment gains and losses. The resulting actuarial asset yield for the year was 3.6%. The effects of the asset losses were partially offset by gains attributable to demographic experience. Detailed information related to System experience is shown on page B-2.

EXECUTIVE SUMMARY/BOARD SUMMARY

5. Looking Ahead

If the Market Value of Assets were used as the basis of our calculations (instead of the smoothed value), the employer contribution would have been approximately 16% of payroll (instead of 13.68% of payroll) and the funded status would have been about 58% (instead of 67.8%). If equity markets do not improve significantly, the June 30, 2013 valuation will likely show yet another increase in the employer contribution amount (absent any liability gains).

6. Conclusion

The continuing effect of prior losses was dampened by the 7-year smoothing period, and further offset by the effect of lower than expected pay increases. There remains \$226 million of unrecognized investment losses that will, in the absence of other gains, drive the contribution rate up over the next several years. It is most important that this plan receive contributions at least equal to the rates shown in this report.

SECTION A
INTRODUCTION

FUNDING OBJECTIVE

The purpose of the annual actuarial valuation of the Arizona Corrections Officer Retirement Plan as of June 30, 2012 is to:

- Compute the liabilities associated with benefits likely to be paid on behalf of current retired and active members. This information is contained in Section B.
- Compare accrued assets with accrued liabilities to assess the funded condition. This information is contained in Section B.
- Compute the employers' recommended contribution rates for the fiscal year beginning July 1, 2013. This information is contained in Section A.

This objective is stated in Article 4, Chapter 5, Title 38, Sections 843B and 848N of the Arizona Revised Statutes.

CONTRIBUTION RATES

The Retirement System is supported by member contributions, employer contributions and investment income from Retirement System assets.

Contributions which satisfy the funding objective are determined by the annual actuarial valuation and are sufficient to:

- (1) Cover the actuarial present value of benefits allocated to the current year by the actuarial cost method described in Section E (the normal cost); and
- (2) Finance over a period of future years the actuarial present value of benefits not covered by valuation assets and anticipated future normal costs (the unfunded actuarial accrued liability).

Computed contribution rates for the fiscal year beginning July 1, 2013 are shown on page A-2.

CONTRIBUTION REQUIREMENTS

Development of Employer Contributions for the Indicated Valuation Date

| | June 30, | |
|---|-----------------|---------------|
| | 2011 | 2012 |
| Contribution for Fiscal Year | 2013 | 2014 |
| Pension | | |
| Normal cost requirement | | |
| Service pensions | 9.01% | 11.17% |
| Disability pensions | 0.34 | 0.25 |
| Survivors of active members | 1.51 | 1.06 |
| Refunds of members' accumulated contributions | <u>3.60</u> | <u>3.09</u> |
| Total normal cost requirement | 14.46% | 15.57% |
| Less member contributions | <u>8.38</u> | <u>8.40</u> |
| Employer normal cost requirement | 6.08% | 7.17% |
| Amortization of unfunded liabilities | <u>4.01%</u> | <u>5.41%</u> |
| Total pension contribution requirement | 10.09% | 12.58% |
| Health | | |
| Normal cost requirement | 0.39% | 0.33% |
| Amortization of unfunded liabilities | <u>0.83%</u> | <u>0.77%</u> |
| Total health contribution requirement | 1.22% | 1.10% |
| Total contribution requirement | 11.31% | 13.68% |

Actuarial accrued liability, \$2,231,544,260, exceeded the funding value of assets, which was \$1,512,989,421. The unfunded actuarial accrued liabilities were amortized as a level percent of payroll over a closed period of 24 years and added to the employer normal cost. The 24 year period is a one year decrease from last year. The results shown above are prior to the application of the statutory minimum of 6% of payroll.

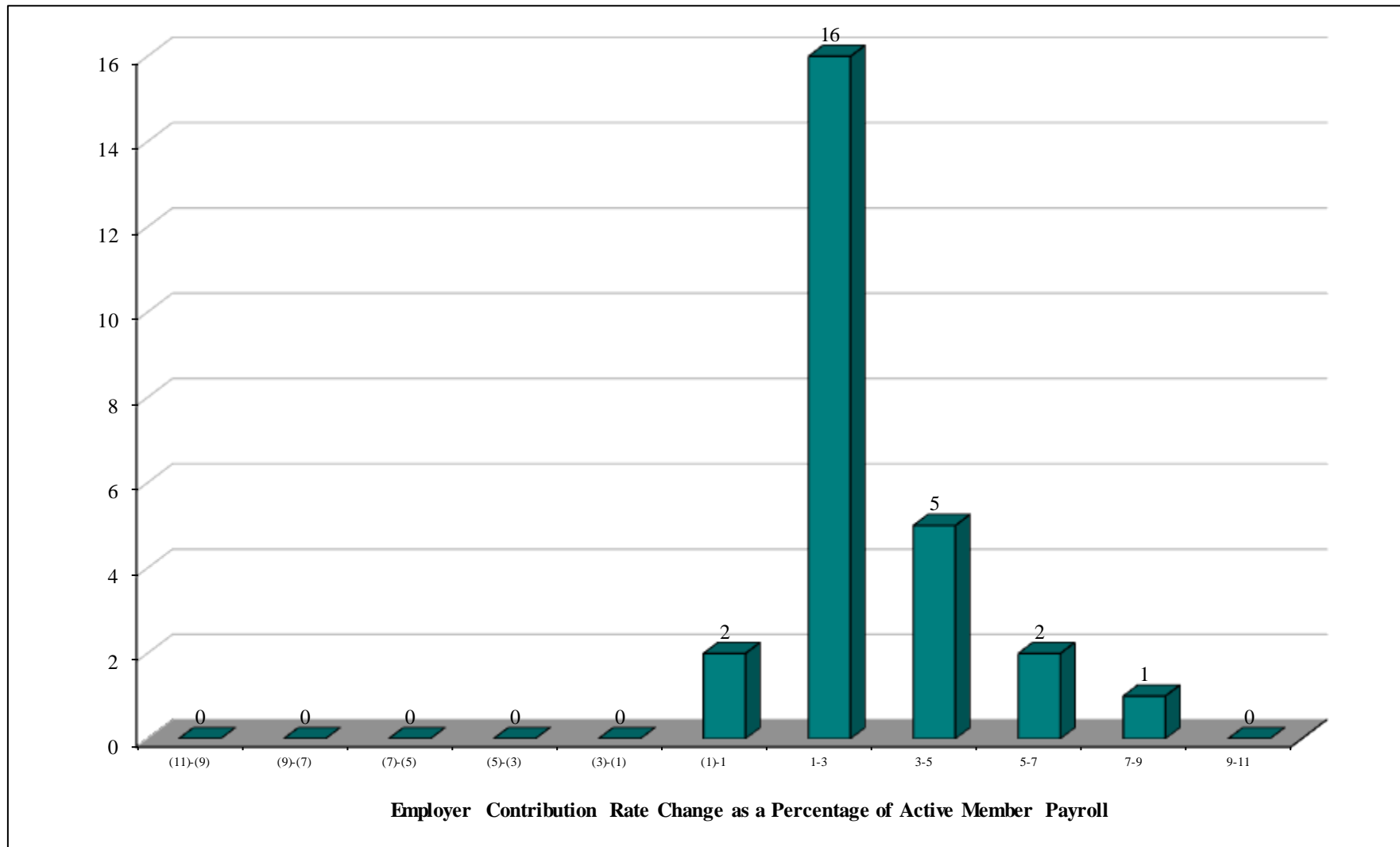
HISTORICAL SUMMARY OF EMPLOYER RATES

| Valuation Date June 30 | Fiscal Year Ending June 30 | Normal Cost | Unfunded Actuarial Accrued Liability | Total |
|---|---|--------------------|---|--------------|
| 2003 | 2005 | 5.74% | (1.67)% | 4.07% |
| 2004 | 2006 | 6.05 | (0.58) | 5.47 |
| 2005 | 2007 | 4.64 | (0.18) | 4.46 |
| 2006 | 2008 | 6.07 | 0.65 | 6.72 |
| 2007 | 2009 | 7.10 | 1.55 | 8.65 |
| 2008 | 2010 | 6.10 | 1.39 | 7.49 |
| 2009 | 2011 | 6.43 | 2.14 | 8.57 |
| 2010 | 2012 | 6.67 | 2.83 | 9.50 |
| 2011 | 2013 | 6.47 | 4.84 | 11.31 |
| 2012 | 2014 | 7.50 | 6.18 | 13.68 |

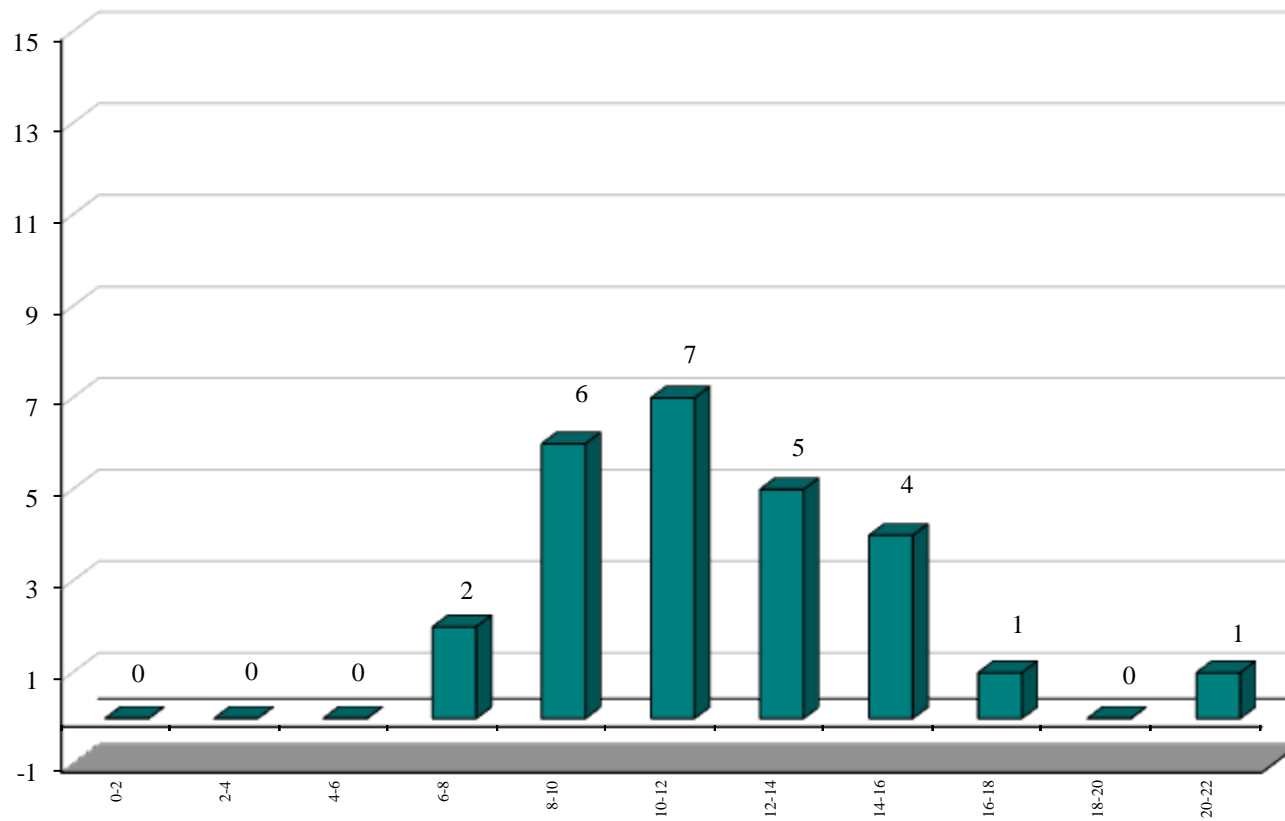
2005 results were revised pursuant to changes enacted by the 2006 Legislature and the CORP Board of Trustees.

Results prior to 2009 were calculated by the prior actuary.

EMPLOYER CONTRIBUTION RATE CHANGES AT JUNE 30, 2012
ALL EMPLOYERS



EMPLOYER CONTRIBUTION RATES - ALL EMPLOYERS AT JUNE 30, 2012



Employer Contribution Rate as a Percentage of Active Member Payroll

SECTION B
FUNDING RESULTS

PRESENT VALUE OF FUTURE BENEFITS AND ACCRUED LIABILITY

| | June 30, | |
|---|----------------|----------------|
| | 2011 | 2012 |
| A. Accrued Liability | | |
| 1. For retirees and beneficiaries | \$ 823,664,284 | \$ 918,771,303 |
| 2. For vested terminated members | 16,179,895 | 20,424,520 |
| 3. For present active members | | |
| a. Value of expected future benefit payments | 1,704,972,283 | 1,966,726,356 |
| b. Value of future normal costs | 536,247,017 | 674,377,919 |
| c. Active member accrued liability: (a) - (b) | 1,168,725,266 | 1,292,348,437 |
| 4. Total accrued liability | 2,008,569,445 | 2,231,544,260 |
| B. Present Assets (Funding Value) | 1,466,749,540 | 1,512,989,421 |
| C. Unfunded Accrued Liability: (A.4) - (B) | 541,819,905 | 718,554,839 |
| D. Stabilization Reserve | 1,495,268 | 858,113 |
| E. Net Unfunded Accrued Liability: (C) + (D) | \$ 543,315,173 | \$ 719,412,952 |
| F. Funding Ratio: (B) / (A.4) | 73.0% | 67.8% |

DERIVATION OF EXPERIENCE GAIN/(LOSS)

Actual experience will never (except by coincidence) exactly match assumed experience. Gains and losses often cancel each other over a period of years, but sizable year-to-year fluctuations are common. Detail on the derivation of the experience gain (loss) is shown below, along with a year-by-year comparative schedule.

| | June 30, | |
|---|---------------|-----------------|
| | 2011 | 2012 |
| (1) UAAL at start of year | \$339,861,626 | \$541,819,905 |
| (2) Normal cost from last valuation | 92,997,730 | 92,994,125 |
| (3) Actual contributions | 103,670,636 | 111,911,164 |
| (4) Interest accrual | 28,434,638 | 43,919,813 |
| (5) Expected UAAL before changes: (1) + (2) - (3) + (4) | 357,623,358 | 566,822,679 |
| (6) Changes from benefit increases | 21,989,010 | - |
| (7) Changes in actuarial methods and assumptions | 186,735,447 | 112,394,447 |
| (8) Change in reserve for future pension increases | (20,327,235) | - |
| (9) Expected UAAL after changes: (5) + (6) + (7) + (8) | 546,020,580 | 679,217,126 |
| (10) Actual UAAL at end of year | 541,819,905 | 718,554,839 |
| (11) Experience Gain/(Loss): (9) - (10) | \$ 4,200,675 | \$ (39,337,713) |

FY 2012 Gains and Losses by Source

| | Gain/(Loss) | % of Liability |
|-------------------|----------------|----------------|
| Investment Return | \$(68,020,880) | -3.4% |
| Salary Increases | 39,562,153 | 2.0% |
| Retirement | 3,527,737 | 0.2% |
| Turnover | (11,473,403) | -0.6% |
| Disability | 726,737 | 0.0% |
| Death-in-Service | 2,564,488 | 0.1% |
| Retiree Mortality | (2,785,652) | -0.1% |
| Other | (3,438,893) | -0.2% |
| Total | \$(39,337,713) | -2.0% |

**UNFUNDED ACTUARIAL ACCRUED LIABILITIES
COMPARATIVE STATEMENT**

(Dollar amounts in \$'000s)

| Valuation Date | (1) Actuarial Accrued Liabilities (AAL) | (2) Valuation Assets | (3) Unfunded AAL | (5) Funded Ratio (2)/(1) | (6) Financing Period | (7) Payroll | Liability Ratio | |
|----------------|---|----------------------------|------------------------|-----------------------------------|----------------------------|----------------|----------------------------|-------------------------|
| | | | | | | | (8) Unfunded (3)/(7) | (9) Total (1)/(7) |
| 2003 | \$ 709,298 | \$ 811,791 | \$(102,493) | 114.4% | 20 yrs. | \$ 358,161 | 0.0% | 198.0% |
| 2004 | 795,775 | 833,621 | (37,846) | 104.8 | 20 | 381,942 | 0.0 | 208.3 |
| 2005 | 863,791 | 872,981 | (9,190) | 101.1 | 20 | 404,156 | 0.0 | 213.7 |
| 2006 | 981,208 | 919,868 | 61,340 | 93.7 | 30 | 437,744 | 14.0 | 224.2 |
| 2007 | 1,110,801 | 940,126 | 170,675 | 84.6 | 29 | 515,428 | 33.1 | 215.5 |
| 2008 | 1,390,363 | 1,207,026 | 183,337 | 86.8 | 28 | 642,621 | 28.5 | 216.4 |
| 2009 | 1,584,293 | 1,309,124 | 275,169 | 82.6 | 27 | 630,825 | 43.6 | 251.1 |
| 2010 | 1,722,006 | 1,382,144 | 339,862 | 80.3 | 26 | 616,481 | 55.1 | 279.3 |
| 2011 | 2,008,569 | 1,466,750 | 541,819 | 73.0 | 25 | 609,243 | 88.9 | 329.7 |
| 2012 | 2,231,544 | 1,512,989 | 718,555 | 67.8 | 24 | 626,223 | 114.7 | 356.3 |

The Unfunded Liability ratio gives a general measure of the ability to collect contributions to pay off the unfunded liabilities. The Total Liability ratio gives a longer term indication of the volatility of the contribution rate.

2005 Results revised pursuant to changes in assumptions and methods enacted by the 2006 Legislature and the CORP Board of Trustees. Results prior to 2009 were calculated by the prior actuary.

SHORT CONDITION TEST

If the contributions to CORP are soundly executed, the System will *pay all promised benefits when due -- the ultimate test of financial soundness.*

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

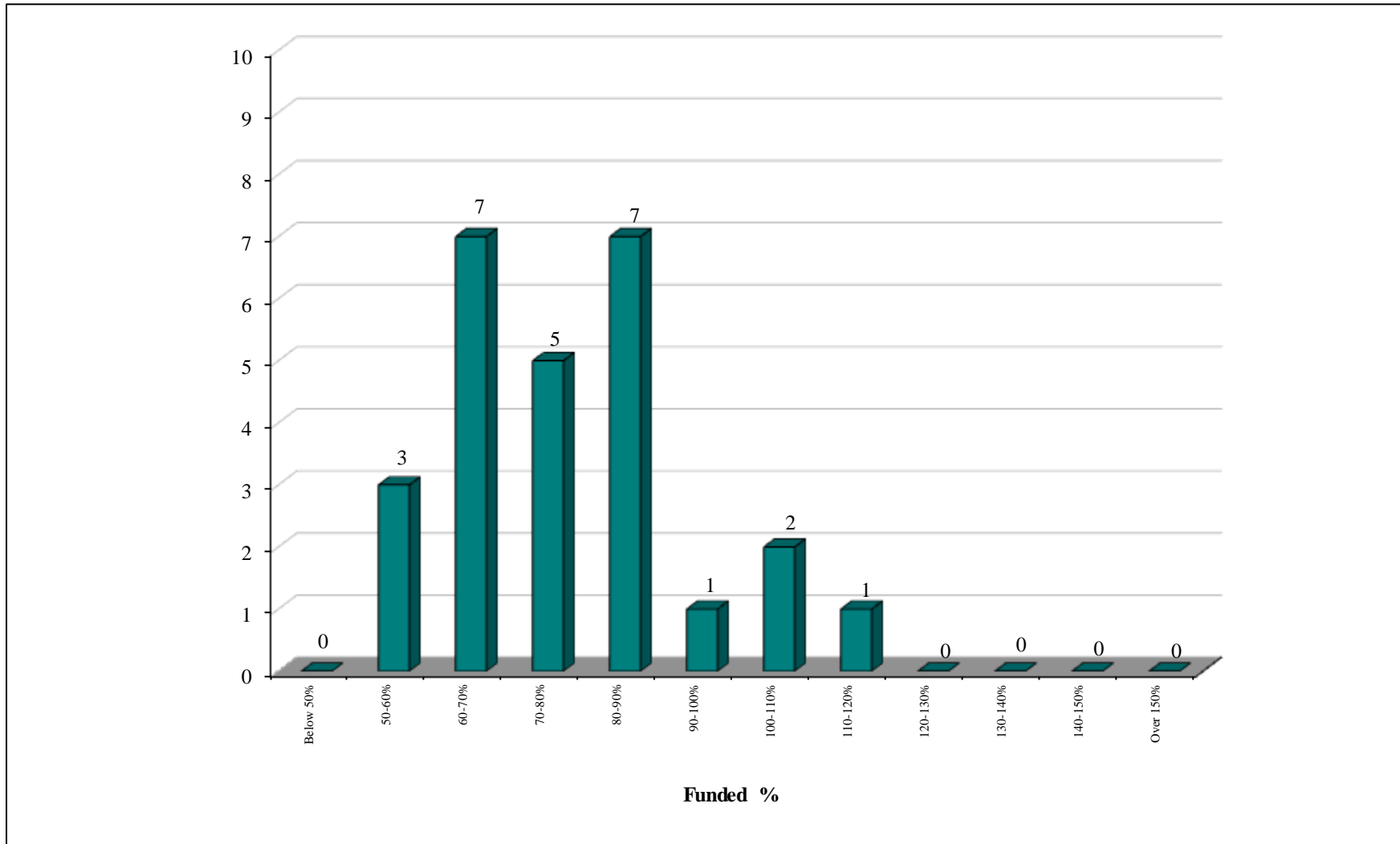
- 1) Member contributions on deposit;
- 2) The liabilities for future benefits to present retired lives; and
- 3) The liabilities for service already rendered by active and inactive members.

In a system that has been following the discipline of pre-funding, the liabilities for 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 and inactive members (liability 3) will be partially covered by the remainder of present assets. The larger the funded portion of liability 3, the stronger the condition of the system.

**Short Condition Test
(Including Health Insurance Subsidy)**
(in \$'000s)

| Calendar Year | Aggregate Actuarial Liabilities For | | | Actuarial Assets | Portion of Actuarial Liabilities Covered by Assets | | |
|---------------|-------------------------------------|-------------------|---|------------------|--|-------------|--------------|
| | (1) Non-Retired Contributions | (2) Annuitants | (3) Non-Retired Members (Employer Financed Portion) | | (1) | (2) | (3) |
| | | | | | | | |
| 2010 | 345,122 | 689,910 | 686,973 | 1,382,144 | 100% | 100% | 50.5% |
| 2011 | 353,892 | 823,664 | 831,013 | 1,466,750 | 100% | 100% | 34.8% |
| 2012 | 373,726 | 918,771 | 939,047 | 1,512,989 | 100% | 100% | 23.5% |

FUNDED PERCENTS - ALL EMPLOYERS AT JUNE 30, 2012



SECTION C
FUND ASSETS

DEVELOPMENT OF FUNDING VALUE OF ASSETS (7-YEAR SMOOTHING)

| Year Ended June 30: | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| A. Funding Value Beginning of Year | \$ 1,466,749,540 | | | | | | |
| B. Market Value End of Year | 1,286,978,947 | | | | | | |
| C. Market Value Beginning of Year | 1,303,797,792 | | | | | | |
| D. Non Investment Net Cash Flow | (6,478,825) | | | | | | |
| E. Investment Income | | | | | | | |
| E1. Total: B-C-D | (10,340,020) | | | | | | |
| E2. Amount for Immediate Recognition: (8.25%) | 120,739,586 | | | | | | |
| E3. Amount for Phased in Recognition: E1-E2 | (131,079,606) | | | | | | |
| F. Phased in Recognition of Investment Income | | | | | | | |
| F1. Current Year: E3 / 7 | (18,725,658) | | | | | | |
| F2. First Prior Year | 10,604,465 | \$ (18,725,658) | | | | | |
| F3. Second Prior Year | 2,249,932 | 10,604,465 | \$ (18,725,658) | | | | |
| F4. Third Prior Year | (46,269,096) | 2,249,932 | 10,604,465 | \$ (18,725,658) | | | |
| F5. Fourth Prior Year | (22,975,892) | (46,269,096) | 2,249,932 | 10,604,465 | \$ (18,725,658) | | |
| F6. Fifth Prior Year | 9,080,499 | (22,975,892) | (46,269,096) | 2,249,932 | 10,604,465 | \$ (18,725,658) | |
| F7. Sixth Prior Year | (1,985,130) | 9,080,496 | (22,975,892) | (46,269,097) | 2,249,930 | 10,604,465 | \$ (18,725,658) |
| F8. Funding Value Corridor Adjustment | 0 | | | | | | |
| F9. Total Recognized Investment Gain | (68,020,880) | (66,035,753) | (75,116,249) | (52,140,358) | (5,871,263) | (8,121,193) | (18,725,658) |
| G. Funding Value End of Year | | | | | | | |
| G1. Preliminary Funding Value End of Year: (A+D+E2+F1:F7) | 1,512,989,421 | | | | | | |
| G2. Upper Corridor: (120% x B) | 1,544,374,736 | | | | | | |
| G3. Lower Corridor: (80% x B) | 1,029,583,158 | | | | | | |
| G4. End of Year: (G1 subject to max of G2 and min of G3) | 1,512,989,421 | | | | | | |
| H. Difference Between Market Value & Funding Value: (B-G4) | (226,010,474) | (159,974,721) | (84,858,472) | (32,718,114) | (26,846,851) | (18,725,658) | 0 |
| I. Market Rate of Return | -0.8% | | | | | | |
| J. Recognized Rate of Return | 3.6% | | | | | | |
| K. Ratio of Funding Value to Market Value | 117.6% | | | | | | |

The funding value of assets recognizes assumed investment return (line E2) fully each year. Differences between actual and assumed investment return (line E3) are phased in over a closed 7-year period. During periods when investment performance exceeds the assumed rate, funding value of assets will tend to be less than market value. During periods when investment performance is less than the assumed rate, funding value of assets will tend to be greater than market value. The funding value of assets is **unbiased** with respect to market value. At any time it may be either greater or less than market value. If actual and assumed rates of investment return are exactly equal for 7 consecutive years, the funding value will become equal to market value.

REVENUES AND DISBURSEMENTS

| | 2011 | 2012 |
|---|-----------------|-----------------|
| Market Value at the Beginning of Year: | \$1,112,789,303 | \$1,303,797,792 |
| Revenues: | | |
| a. Member contributions | \$ 51,667,905 | \$ 52,818,760 |
| b. Employer contributions | 52,002,731 | 59,092,404 |
| c. Interest income (net of expenses) | 192,027,535 | (11,522,712) |
| d. Net transfers | (703,623) | (595,549) |
| e. Total | \$ 294,994,548 | \$ 99,792,903 |
| Disbursements: | | |
| a. Refunds of member contributions | \$ 24,927,660 | \$ 25,743,514 |
| b. Pension benefits (including DROP) | 76,359,270 | 87,977,793 |
| c. Health Subsidy | 2,699,129 | 2,890,441 |
| d. Total | \$ 103,986,059 | \$ 116,611,748 |
| Reserve Increase: | | |
| Total revenues minus total disbursements | \$ 191,008,489 | \$ (16,818,845) |
| Market Value at the End of Year: | \$1,303,797,792 | \$1,286,978,947 |

SECTION D
CENSUS DATA

JUNE 30, 2012 VALUATION DATA SUMMARY

For purposes of the June 30, 2012 valuation, information on 19,568 covered persons was furnished. These people may be briefly described as follows.

| | No. | Averages | | | |
|--------------------------|--------|----------|------------------|------------------------------------|----------|
| | | Age | Years of Service | Annual Pay or Retirement Allowance | |
| | | | | 2011 | 2010 |
| Actives | 14,991 | 39.8 | 7.7 | \$41,773 | \$41,829 |
| Retirees & Beneficiaries | 3,476 | 62.7 | | 25,293 | 25,073 |
| Inactive Vested | 1,101 | 38.7 | | | |
| | 19,568 | | | | |

ACTIVE MEMBERS

**Members in Active Service as of June 30, 2012
by Years of Service**

| Age | Years of Service | | | | | | | Total Count | Total Pay | Average Pay |
|--------------|------------------|--------------|--------------|--------------|------------|------------|-----------|----------------|-----------------------|-----------------|
| | 0 - 4 | 5 - 9 | 10 - 14 | 15 - 19 | 20 - 24 | 25 - 29 | 30 & Up | | | |
| Under 25 | 1,103 | 18 | | | | | | 1,121 | \$ 37,389,181 | \$33,353 |
| 25 - 29 | 1,690 | 567 | 2 | | | | | 2,259 | 81,410,389 | 36,038 |
| 30 - 34 | 1,033 | 998 | 199 | 2 | | | | 2,232 | 87,679,716 | 39,283 |
| 35 - 39 | 704 | 786 | 588 | 123 | | | | 2,201 | 93,333,244 | 42,405 |
| 40 - 44 | 629 | 585 | 515 | 413 | 47 | | | 2,189 | 97,268,599 | 44,435 |
| 45 - 49 | 410 | 410 | 338 | 313 | 199 | 14 | 1 | 1,685 | 76,584,380 | 45,451 |
| 50 - 54 | 300 | 337 | 292 | 255 | 134 | 67 | 7 | 1,392 | 63,360,141 | 45,517 |
| 55 - 59 | 201 | 255 | 236 | 172 | 98 | 46 | 13 | 1,021 | 46,970,392 | 46,004 |
| 60 - 64 | 102 | 166 | 143 | 126 | 54 | 42 | 12 | 645 | 30,735,073 | 47,651 |
| 65 and over | 32 | 79 | 67 | 37 | 22 | 6 | 3 | 246 | 11,491,951 | 46,715 |
| Total | 6,204 | 4,201 | 2,380 | 1,441 | 554 | 175 | 36 | 14,991 | \$ 626,223,066 | \$41,773 |

TERMINATED VESTED MEMBERS

| Age | Years of Service | | | | | Total Count |
|-------------|------------------|-------|---------|---------|---------|-------------|
| | 0 - 4 | 5 - 9 | 10 - 14 | 15 - 19 | 20 & Up | |
| Under 30 | 276 | 18 | | | | 294 |
| 30 - 39 | 255 | 65 | 14 | 1 | | 335 |
| 40 - 44 | 88 | 19 | 18 | 4 | | 129 |
| 45 - 49 | 58 | 14 | 17 | 7 | 1 | 97 |
| 50 - 54 | 42 | 15 | 18 | 5 | 2 | 82 |
| 55 - 59 | 33 | 18 | 30 | 8 | | 89 |
| 60 - 69 | 20 | 13 | 27 | 11 | 1 | 72 |
| 70 and over | 2 | 1 | | | | 3 |
| Total | 774 | 163 | 124 | 36 | 4 | 1,101 |

RETIREES AND BENEFICIARIES

| Attained Ages | Males | | Females | | Total | |
|------------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|
| | No. | Annual Pension Benefits | No. | Annual Pension Benefits | No. | Annual Pension Benefits |
| Under 25 | 0 | \$ 0 | 2 | \$ 38,386 | 2 | \$ 38,386 |
| 25-29 | 0 | 0 | 2 | 32,595 | 2 | 32,595 |
| 30-34 | 4 | 70,067 | 11 | 161,897 | 15 | 231,964 |
| 35-39 | 6 | 99,187 | 15 | 225,224 | 21 | 324,411 |
| 40-44 | 54 | 1,296,222 | 47 | 945,402 | 101 | 2,241,624 |
| 45-49 | 210 | 5,581,709 | 70 | 1,784,267 | 280 | 7,365,976 |
| 50-54 | 277 | 8,239,573 | 145 | 4,262,379 | 422 | 12,501,952 |
| 55-59 | 307 | 9,918,711 | 148 | 4,549,579 | 455 | 14,468,290 |
| 60-64 | 438 | 13,699,904 | 196 | 5,075,731 | 634 | 18,775,635 |
| 65-69 | 434 | 11,083,882 | 197 | 4,236,415 | 631 | 15,320,297 |
| 70-74 | 306 | 6,306,149 | 145 | 2,592,842 | 451 | 8,898,991 |
| 75-79 | 189 | 3,512,069 | 101 | 1,649,896 | 290 | 5,161,965 |
| 80-84 | 81 | 1,268,740 | 47 | 634,563 | 128 | 1,903,303 |
| 85-89 | 25 | 335,379 | 12 | 185,328 | 37 | 520,707 |
| 90-94 | 3 | 41,205 | 4 | 91,047 | 7 | 132,252 |
| 95-99 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 and Over | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals | 2,334 | \$61,452,797 | 1,142 | \$26,465,551 | 3,476 | \$87,918,348 |

| Pension Being Paid | | Number | Annual Pensions | Average Pensions |
|---------------------------------|-------------------------|--------------------|------------------------|----------------------------------|
| Retired Members | Service Pensions | 2,879 | \$77,707,783 | \$26,991 |
| | Disability Pensions | 111 | 2,270,452 | 20,455 |
| Totals | | 2,990 | 79,978,235 | 26,749 |
| Survivors of Members | Spouses | 455 | 7,501,504 | 16,487 |
| | Children with Guardians | 31 | 438,609 | 14,149 |
| Total | | 486 | 7,940,113 | 16,338 |
| Total Pension being Paid | | 3,476 | \$87,918,348 | \$25,293 |
| | | Average Age | Average Service | Average Age at Retirement |
| Normal retired members | | 63.3 | 19.7 | 56.7 |
| Disability retired members | | 55.4 | 9.7 | 45.6 |
| Spouse beneficiaries | | 64.9 | 11.9 | 52.0 |

**PENSIONS BEING PAID
HISTORICAL SCHEDULE**

| Valuation Date June 30 | No. | Annual Pensions | % Incr. in Annual Pensions | Average Pension | Present Value of Pensions | |
|---------------------------------------|--------------|----------------------------|---|----------------------------|----------------------------------|----------------|
| | | | | | Total | Average |
| 1990 | 115 | \$ 765,738 | 34.0% | \$ 6,659 | \$ 7,150,080 | \$ 62,175 |
| 1995 | 435 | 3,456,705 | 27.5 | 7,946 | 34,140,660 | 78,484 |
| 1996 | 504 | 4,274,602 | 23.7 | 8,481 | 41,777,424 | 82,892 |
| 1997 | 598 | 5,305,705 | 24.1 | 8,872 | 52,028,400 | 87,004 |
| 1998 | 708 | 6,884,614 | 29.8 | 9,724 | 66,342,827 | 93,705 |
| 1999 | 825 | 9,642,797 | 40.1 | 11,688 | 89,514,713 | 108,503 |
| 2000 | 925 | 11,042,151 | 14.5 | 11,937 | 107,650,253 | 116,379 |
| 2001 | 1,040 | 13,446,069 | 21.8 | 12,929 | 124,247,094 | 119,468 |
| 2002 | 1,218 | 17,660,065 | 31.3 | 14,499 | 166,073,532 | 136,349 |
| 2003 | 1,363 | 21,653,042 | 22.6 | 15,886 | 201,489,450 | 147,828 |
| 2004 | 1,536 | 26,261,143 | 21.3 | 17,097 | 255,272,652 | 166,193 |
| 2005 | 1,733 | 31,329,225 | 19.3 | 18,078 | 332,199,210 | 191,690 |
| 2006 | 1,955 | 37,272,183 | 19.0 | 19,065 | 384,512,841 | 196,682 |
| 2007 | 2,123 | 42,666,000 | 14.5 | 20,097 | 430,172,373 | 202,625 |
| 2008 | 2,428 | 51,062,647 | 19.7 | 21,031 | 504,461,674 | 207,768 |
| 2009 | 2,591 | 59,089,591 | 15.7 | 22,806 | 566,228,807 | 218,537 |
| 2010 | 2,908 | 69,769,056 | 18.1 | 23,992 | 666,416,976 | 229,167 |
| 2011 | 3,256 | 81,637,650 | 17.0 | 25,073 | 796,704,561 | 244,688 |
| 2012 | 3,476 | 87,918,348 | 26.0 | 25,293 | 889,093,751 | 255,781 |

Results prior to 2009 were calculated by the prior actuary.

SECTION E
METHODS AND ASSUMPTIONS

VALUATION METHODS

Actuarial Cost Method – Normal cost and the allocation of benefit values between service rendered before and after the valuation date were determined using an individual entry-age actuarial cost method having the following characteristics:

- (i) the annual normal costs for each individual active member, payable from the date of hire to the date of retirement, are sufficient to accumulate to the value of the member's benefits.
- (ii) each annual normal cost is a constant percentage of the member's year-by-year projected covered pay.

The entry-age actuarial cost method allocates the actuarial present value of each member's projected benefits on a level basis over the member's compensation between the entry age of the member and the assumed exit ages.

Actuarial Accrued Liability – The actuarial accrued liability is the portion of actuarial present value allocated to service rendered prior to the valuation date, including experience gains and losses. The actuarial accrued liability was computed using the assumptions summarized in this report.

Actuarial Value of System Assets – The actuarial value of assets recognizes assumed investment income fully each year. Differences between actual and assumed investment income are phased in over a closed seven year period subject to a 20% corridor. During periods when investment performance exceeds the assumed rate, actuarial value of assets will tend to be less than market value. During periods when investment performance is less than the assumed rate, the actuarial value of assets will tend to be greater than market value.

Financing of Unfunded Actuarial Accrued Liabilities – The actuarial value of assets were subtracted from the computed actuarial accrued liability. Any unfunded amount would be amortized as level percent of payroll over a closed period of 24 years. If the actuarial value of assets exceeded the actuarial accrued liability, the excess was amortized over an open period of 20 years and applied as a credit to reduce the normal cost which otherwise would be payable.

Active member payroll was assumed to increase 5.0% annually for the purpose of computing the amortization payment (credit) as a level percent of payroll.

VALUATION ASSUMPTIONS

Beginning with the June 30, 2007 valuation and with each subsequent valuation, if the actuarial value of assets exceeds the actuarial accrued liabilities, one half of this excess in each year is allocated to a Stabilization Reserve. The Stabilization Reserve is excluded from the calculation of the employer contribution rates. The Stabilization Reserve continues to accumulate as long as the plan is over-funded. Once the plan becomes under-funded, the Stabilization Reserve will be used to dampen increases in the employer contribution rates.

The rate of investment return was 8.00% a year, compounded annually net of investment and administrative expenses.

The assumed real return is the rate of return in excess of wage growth. Considering other assumptions used in the valuation, the 8.00% nominal rate translates to a net real return over wage growth of 3.00% a year.

The rates of pay increase used for individual members are shown below. This assumption is used to project a member’s current pay to the pay upon which System benefits will be based.

| Sample Ages | Salary Increase Assumptions For an Individual Member | | |
|-------------|---|----------------|--------------------|
| | Merit & Seniority | Base (Economy) | Increase Next Year |
| 20 | 3.2% | 5.0% | 8.2% |
| 25 | 3.0% | 5.0% | 8.0% |
| 30 | 2.2% | 5.0% | 7.2% |
| 35 | 1.3% | 5.0% | 6.3% |
| 40 | 0.7% | 5.0% | 5.7% |
| 45 | 0.5% | 5.0% | 5.5% |
| 50 | 0.4% | 5.0% | 5.4% |
| 55 | 0.2% | 5.0% | 5.2% |
| 60 | 0.0% | 5.0% | 5.0% |
| Ref: | | | 382 |

Active Member Payroll is assumed to grow at 5.0% per year. Although no specific price inflation assumption is required to perform this valuation, since no benefits are linked to prices, a price inflation assumption on the order of 3.0% to 4.0% would be consistent with the other economic assumptions.

VALUATION ASSUMPTIONS

The healthy mortality table used to evaluate death after retirement in this valuation of the System was the RP 2000 Mortality table (adjusted by 105% for both males and females). This assumption was first used for the June 30, 2012 valuation of the System. Sample rates of mortality and years of life expectancy are shown below:

| Sample Attained Ages | Probability of Dying Next Year | | Future Life Expectancy (years) | |
|----------------------|----------------------------------|----------------------------------|--------------------------------|-------|
| | Men | Women | Men | Women |
| 50 | 0.21% | 0.17% | 30.37 | 33.14 |
| 55 | 0.36 | 0.27 | 25.76 | 28.47 |
| 60 | 0.67 | 0.51 | 21.35 | 23.95 |
| 65 | 1.27 | 0.97 | 17.24 | 19.72 |
| 70 | 2.22 | 1.67 | 13.54 | 15.86 |
| 75 | 3.78 | 2.81 | 10.27 | 12.40 |
| 80 | 6.44 | 4.59 | 7.50 | 9.38 |
| Ref: | 506 x 1.05 0 year set forward | 507 x 1.05 0 year set forward | | |

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

The disabled mortality table used to evaluate death after retirement in this valuation of the System was the RP 2000 Mortality table (set forward 10 years for both males and females). This assumption was first used for the June 30, 2012 valuation of the System. Sample rates of mortality and years of life expectancy are shown below:

| Sample Attained Ages | Probability of Dying Next Year | | Future Life Expectancy (years) | |
|----------------------|-----------------------------------|-----------------------------------|--------------------------------|-------|
| | Men | Women | Men | Women |
| 50 | 0.67% | 0.51% | 21.74 | 24.38 |
| 55 | 1.27 | 0.97 | 17.61 | 20.12 |
| 60 | 2.22 | 1.67 | 13.88 | 16.23 |
| 65 | 3.78 | 2.81 | 10.57 | 12.74 |
| 70 | 6.44 | 4.59 | 7.75 | 9.68 |
| 75 | 11.08 | 7.74 | 5.49 | 7.09 |
| 80 | 18.34 | 13.17 | 3.86 | 5.15 |
| Ref: | 506 x 1.00 10 year set forward | 507 x 1.00 10 year set forward | | |

VALUATION ASSUMPTIONS

For actives, the sample rates of mortality for death-in-service are shown below, and were first used for the June 30, 2012 valuation of the System.

| Sample Attained Ages | Probability of Dying Next Year | |
|----------------------|----------------------------------|----------------------------------|
| | Men | Women |
| 50 | 0.21% | 0.17% |
| 55 | 0.36 | 0.27 |
| 60 | 0.67 | 0.51 |
| 65 | 1.27 | 0.97 |
| Ref: | 506 x 0.80 0 year set forward | 507 x 0.80 0 year set forward |

The rates of regular retirement used to measure the probability of eligible members retiring during the next year are shown below. These assumptions was first used for the June 30, 2012 valuation of the System.

Retirement Rates: Age-related rates for members hired before January 1, 2012 are shown below:

| Age at Retirement | Rates |
|-------------------|-------|
| 60 | 60% |
| 61 | 60% |
| 62 | 60% |
| 63 | 60% |
| 64 | 60% |
| 65 | 60% |
| 66 | 60% |
| 67 | 60% |
| 68 | 60% |
| 69 | 60% |
| 70 | 60% |
| 71 | 60% |
| 72 | 60% |
| 73 | 60% |
| 74 | 60% |
| 75 | 100% |
| Ref. | 2153 |

These retirement rates are applicable to employees attaining age 62 before attaining 20 (25 for dispatchers) years of service.

VALUATION ASSUMPTIONS

Service-related rates for members hired before January 1, 2012 are shown below:

| Service at Retirement | Rates |
|-----------------------|-------|
| 20 | 28% |
| 21 | 28% |
| 22 | 22% |
| 23 | 20% |
| 24 | 17% |
| 25 | 33% |
| 26 | 33% |
| 27 | 25% |
| 28 | 17% |
| 29 | 17% |
| 30 | 30% |
| 31 | 30% |
| 32 | 50% |
| 33 | 50% |
| 34 | 75% |
| 35 | 75% |
| 36 | 75% |
| 37 | 100% |
| Ref. | 2154 |

These retirement rates are applicable to employees attaining 20 (25 for dispatchers) years of service before attaining age 62.

Age-related rates for members hired after January 1, 2012 are shown below:

| Age at Retirement | Rates |
|-------------------|-------|
| 53 | 40% |
| 54 | 40% |
| 55 | 30% |
| 56 | 15% |
| 57 | 15% |
| 58 | 30% |
| 59 | 30% |
| 60 | 65% |
| 61 | 65% |
| 62 | 100% |
| Ref. | 1744 |

VALUATION ASSUMPTIONS

Rates of separation from active membership used in the valuation are shown below (rates do not apply to members eligible to retire and do not include separation on account of death or disability). This assumption measures the probabilities of members remaining in employment. This assumption was first used for the June 30, 2012 valuation of the System.

| Sample Ages | Years of Service | % of Active Members Separating Within Next Year |
|-------------|------------------|---|
| All | 0 | 25.00% |
| | 1 | 20.00% |
| | 2 | 16.00% |
| | 3 | 14.00% |
| | 4 | 12.00% |
| | 5 | 9.00% |
| | 6 | 9.00% |
| | 7 | 9.00% |
| | 8 | 8.00% |
| | 9 | 8.00% |
| | 10 | 8.00% |
| | 11 | 5.00% |
| | 12 | 4.00% |
| | 13 | 4.00% |
| | 14 | 3.00% |
| | 15 | 3.00% |
| | 16 | 3.00% |
| | 17 | 2.00% |
| | 18 | 2.00% |
| 19 | 2.00% | |
| Ref. | | 729 |

VALUATION ASSUMPTIONS

Rates of disability among active members used in the valuation are shown below, and were first used for the June 30, 2012 valuation of the System.

| Sample Ages | % of Active Members Becoming Disabled within Next Year |
|--------------------|---|
| 20 | 0.03% |
| 25 | 0.03% |
| 30 | 0.03% |
| 35 | 0.04% |
| 40 | 0.05% |
| 45 | 0.06% |
| 50 | 0.08% |
| 55 | 0.08% |
| Ref | 592 75% |

**SUMMARY OF ASSUMPTIONS USED
JUNE 30, 2012**

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. This means that the pays received are assumed to be annual rates of pay on the valuation date as opposed to W-2 type earnings for the prior 12 months. |
| Decrement Timing: | Decrements of all types are assumed to occur mid-year. |
| Eligibility 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 the time of retirement. |
| Benefit Service: | Exact fractional service is used to determine the amount of benefit payable. |
| Health Care Utilization: | 70% of future retirees are expected to utilize retiree 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. |

SECTION F
PLAN PROVISIONS

**SUMMARY OF PLAN PROVISIONS
VALUED AND/OR CONSIDERED**

Normal Retirement (no reduction for age). A corrections officer may retire upon meeting one of the following age and service requirements:

- a) Any age with 20 (25 for dispatchers) or more years of credited service (effective August 9, 2001);
- b) Age 62 years with 10 or more years of credited service;
- c) A combination of age and credited service equal to 80 (effective July 1, 1995).

The amount of normal pension at 20 years of credited service is 50% of average monthly salary with 2% increments for every year over 20 years of credited service up to 25 years of credited service. With 25 or more years of credited service the accrual rate is 2.5% for each year. Maximum is 80% of average monthly salary.

Dispatchers hired on or after November 24, 2009 participate in the Arizona State Retirement System.

Early Retirement (reduction for age). No provision.

Vested Termination (deferred retirement). A member may be eligible for deferred retirement after completion of 10 or more years of credited service if member contributions are left on deposit in the plan. The amount of deferred pension is determined in the same manner as a normal retirement pension based on credited service, compensation and benefit provisions at the time of termination.

Disability Retirement. A member who is injured in the performance of his duties which totally and permanently prevent him from performing a reasonable range of duties in his department and was the result of either physical contact with an inmate, responding to a confrontational situation with an inmate or a job-related motor vehicle accident may be retired under accidental disability. A corrections officer who becomes incapacitated for any gainful employment, as the direct and proximate result of performance of duty as a corrections officer, may be retired by the Board of Trustees under total and permanent disability. The amount of pension for both types of disability is 50 percent of average monthly salary.

A member who has a total and permanent disability that prevents the performance of a reasonable range of duties in his department may be retired by the Board of Trustees under an ordinary disability (non-duty related). The amount of the pension is a percentage of normal retirement benefit. The percentage based on credited service divided by 20 (25 for dispatchers).

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).

Survivor Pensions. Payable to the eligible beneficiary of a retired corrections officer or an active corrections officer. An eligible beneficiary is a surviving spouse who was married to the retired or active corrections officer for at least two years. A surviving spouse's pension terminates upon death. The amount of a surviving spouse's pension is 80% of the pension being paid the deceased retired corrections officer and 40% (100% if duty-related) of the average monthly salary of the deceased active corrections officer. Eligible surviving children are paid equal shares of the pension which would have been payable to a surviving spouse if a surviving spouse pension is not being paid. If no pension is payable because of the death of an active member, a refund of twice the member's accumulated contributions is paid to the beneficiary.

Other Terminations. The member is paid a refund of accumulated member contributions, plus an additional amount if the member has at least five years of service credited. The additional amount is a percent, based on service credit, of the member contribution amount, ranging from 25% (with five years of service credited) to 100% (with 10 or more years of service credited).

Post-Retirement Adjustments: Contingent upon the excess investment earnings, effective July 1 of each year, eligible retired members or survivors may be entitled to a permanent benefit increase in their base benefit. To be eligible for the increase, the retired member or survivor must be either age 55 or older on July 1 of the current year and receiving benefits on or before July 31 of the previous year, or the retired member or survivor has been receiving benefits on or before July 31 of the previous two years. The maximum amount of the increase is 4% of the average normal benefit being received on the preceding June 30.

Prior to July 1, 2013 a COLA reserve is maintained and used to pay for the post-retirement adjustment. The investment return on the COLA reserve is the same as the return on the market value of assets (whether the return is positive or negative). Additional amounts are added to the COLA reserve in years when the investment return on the market value of assets exceeds 9.0%. Each year the present value of that year's post-retirement adjustment is subtracted from the COLA reserve. A post-retirement adjustment is paid as long as there is a positive balance in the COLA reserve.

Post-Retirement Health Insurance Subsidy: Payable on behalf of retired members and survivors who elect coverage provided by the state or participating employer. The monthly amounts cannot exceed:

| <u>Member Only</u> | | <u>With Dependents</u> | | |
|------------------------------|--------------------------|----------------------------------|------------------------------|--------------------------|
| <u>Not Medicare Eligible</u> | <u>Medicare Eligible</u> | <u>All Not Medicare Eligible</u> | <u>All Medicare Eligible</u> | <u>One With Medicare</u> |
| \$150 | \$100 | \$260 | \$170 | \$215 |

Member Contributions. 8.50% of base salary. For fiscal years 2007/2008 and 2008/2009, the member contribution rate is 7.96% pursuant to legislation adopted in 2005. Effective after 9/26/2008, non-dispatcher members contribute 8.41% until the Plan is 100% funded.

Employer Contributions. Percent of payroll normal cost plus 30 year (25 years remaining as of June 30, 2011) amortization of unfunded actuarial accrued liability (20 year amortization for credit). The minimum employer contribution rate is 6% for fiscal years beginning with FY 2007/2008 (5% for units under 5% as of June 30, 2005 valuation).

Changes in Plan Provisions for Existing Members and New Hires effective January 1, 2012

Existing Members

- Contribution rates are 8.41% (7.96% for dispatchers) for FY 2010-2011. For fiscal years 2011-2012 and after, 8.41% (7.96% for dispatchers), or a 50/50 split between employer and employee, whichever is lower. Minimum employee contribution rate of 7.65%, minimum employer contribution rate of 6%.
- Dispatcher contribution rate is .45% less than the non-dispatcher rate until the plan is 100% funded then rates are equal thereafter.
- Employer will contribute at the alternate contribution rate (ARC which is the amortization portion of the required rate) to System when members retire and return to work.

New Hires on or after January 1, 2012

Average Monthly Compensation: One-sixtieth of total compensation paid to member during the five years, out of the last 10 years of credited service, in which the amount paid was highest. Compensation is the amount including base salary, overtime pay, shift differential pay and holiday pay, paid to an employee on a regular payroll basis and longevity pay paid at least every six months for which contributions are made to the System.

Normal Retirement: First day of month following the attainment of age 52.5 and completion of 25 years of service or the attainment of age 62 and completion of 10 years of service.

Arizona Corrections Officer Retirement Plan Annual Actuarial Valuation

The amount of monthly normal pension is based on credited service and average monthly compensation as follows:

- **Age 62 and 10 years of service**, 2.5% of average monthly compensation per year of credited service.
- **Age 52.5 with 25 or more years of credited service**, 62.5% of average monthly compensation, plus 2.5% of average monthly compensation for each year of credited service over 25.
- **Age 52.5 with 25 years of service, but less than 25 years of credited service**, 2.5% of average monthly compensation multiplied total credited service.

The maximum amount payable as a normal retirement pension is 80% of the average monthly compensation.

- If ceases to hold office for any reason other than death or retirement, member can withdraw accumulated member contributions (no employer match of refund contributions) with interest at rate set by Board.
- Contribution rates are 8.41% (7.96% for dispatchers) for FY 2010-2011. For fiscal years 2011-2012 and after, 8.41% (7.96% for dispatchers), or a 50/50 split between employer and employee, whichever is lower. Minimum employee contribution rate of 7.65%, minimum employer contribution rate of 6%.
- Dispatcher contribution rate is .45% less than the non-dispatcher rate until the plan is 100% funded then rates are equal thereafter.
- Employer will contribute to System when members retire and return to work.

Existing Members and New Hires

- COLA provision – effective July 1, 2013
 - Effective May 31, 2011 no more excess investment earnings will be transferred to the current COLA reserve. Any remaining COLA reserve will be used to pay future COLA increases until the COLA reserve is depleted.
 - A COLA is only paid in a year when the return on the market value of assets exceeds 10.5% and the plan is at least 60% funded. 100% of the excess earnings is used to determine whether a COLA can be paid and the size of the COLA for that year.
 - No COLA reserve accumulates. The present value of that year's COLA for eligible retirees cannot exceed 100% of the earnings in excess of 10.5%. If the excess earnings is high enough to exceed the present value of that year's COLA, the excess stays in the fund.
 - To be eligible for an increase the retiree or the survivor must be:
 - In the case of a retired member who became a member of the plan before January 1, 2012, the retired member or survivor was receiving benefits on or before July 31 of the two previous years or
 - In the case of a retired member who became a member of the plan before January 1, 2012, the retired member or survivor was 55 or older on July 1 of the current year and was receiving benefits on or before July 31 of the previous year.

- In the case of a retired member who became a member of the plan on or after January 1, 2012, the retired member or survivor was at least 55 or older on July 1 and receiving benefits.
 - In the case of a retired member who became a member of the plan on or after January 1, 2012, if under 55 on July 1, was receiving accidental disability benefits for the preceding 2 years.
 - In the case of a member who became a member of the plan on or after January 1, 2012, if the survivor is under 55 on July 1, is the survivor of the member who was killed in the line of duty, and has been receiving a survivor benefits for the preceding 2 years.
- The amount of the COLA to be paid is determined as follows:
- Funded ratio is 60-64%, COLA is 2%
 - Funded ratio is 65-69%, COLA is 2.5%
 - Funded ratio is 70-74%, COLA is 3%
 - Funded ratio is 75-79%, COLA is 3.5%
 - Funded ratio is 80% or more, COLA is 4%

SECTION G
GLOSSARY

| | |
|---|---|
| <i>Actuarial Accrued Liability</i> | The difference between (i) the actuarial present value of future plan benefits, and (ii) the actuarial present value of future normal cost. Sometimes referred to as “accrued liability” or “past service liability.” |
| <i>Accrued Service</i> | The service credited under the plan which was rendered before the date of the actuarial valuation. |
| <i>Actuarial Assumptions</i> | Estimates of future plan experience with respect to rates of mortality, disability, turnover, retirement, rate or rates of investment income and salary increases. Decrement assumptions (rates of mortality, disability, turnover and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (salary increases and investment income) consist of an underlying rate in an inflation-free environment plus a provision for a long-term average rate of inflation. |
| <i>Actuarial Cost Method</i> | A mathematical budgeting procedure for allocating the dollar amount of the “actuarial present value of future plan benefits” between the actuarial present value of future normal cost and the actuarial accrued liability. Sometimes referred to as the “actuarial funding method.” |
| <i>Actuarial Equivalent</i> | A single amount or series of amounts of equal value to another single amount or series of amounts, computed on the basis of the rate(s) of interest and mortality tables used by the plan. |
| <i>Actuarial Present Value</i> | The amount of funds presently required to provide a payment or series of payments in the future. It is determined by discounting the future payments at a predetermined rate of interest, taking into account the probability of payment. |
| <i>Amortization</i> | Paying off an interest-bearing liability by means of periodic payments of interest and principal, as opposed to paying it off with a lump sum payment. |
| <i>Experience Gain/(Loss)</i> | A measure of the difference between actual experience and that expected based upon a set of actuarial assumptions during the period between two actuarial valuation dates, in accordance with the actuarial cost method being used. |
| <i>Normal Cost</i> | The annual cost assigned, under the actuarial funding method, to current and subsequent plan years. Sometimes referred to as “current service cost.” Any payment toward the unfunded actuarial accrued liability is not part of the normal cost. |

| | |
|--|--|
| <i>Reserve Account</i> | An account used to indicate that funds have been set aside for a specific purpose and is not generally available for other uses. |
| <i>Unfunded Actuarial Accrued Liability</i> | The difference between the actuarial accrued liability and valuation assets. Sometimes referred to as “unfunded accrued liability.” |
| <i>Valuation Assets</i> | The value of current plan assets recognized for valuation purposes. Generally based on market value plus a portion of unrealized appreciation or depreciation. |

APPENDIX I

ACCOUNTING DISCLOSURES

This information is presented in draft form for review by the System's auditor. Please let us know if there are any items that the auditor changes so that we may maintain consistency with the System's financial statements.

GASB STATEMENT NO. 25 SUPPLEMENTARY INFORMATION

**SCHEDULE OF FUNDING PROGRESS
(EXCLUDING HEALTH INSURANCE SUBSIDY BEGINNING
JUNE 30, 2008)**

SCHEDULE OF FUNDING PROGRESS

| Year Ended June 30 | Actuarial Value of Assets (a) | Actuarial Accrued Liability (AAL) (b) | Unfunded AAL (UAAL) (b)-(a) | Funded Ratio (a)/(b) | Covered Payroll (c) | UAAL as a Percent of Covered Payroll [(b)-(a)]/(c) |
|---------------------------|--------------------------------------|--|------------------------------------|-----------------------------|----------------------------|---|
| 2002 | \$ 782,445,913 | \$ 632,237,814 | \$(150,208,099) | 123.8 % | \$330,427,800 | 0.00 % |
| 2003 | 811,791,293 | 709,297,998 | (102,493,295) | 114.4 % | 358,160,933 | 0.00 % |
| 2004 | 833,620,994 | 795,774,862 | (37,846,132) | 104.8 % | 381,942,220 | 0.00 % |
| 2005 | 872,980,916 | 906,025,039 | 33,044,123 | 96.4 % | 404,155,903 | 8.18 % |
| 2006 | 919,867,995 | 981,207,708 | 61,339,713 | 93.7 % | 437,743,658 | 14.01 % |
| 2007 | 940,126,081 | 1,110,801,013 | 170,674,932 | 84.6 % | 515,427,641 | 33.11 % |
| 2008 | 1,207,026,191 | 1,336,662,478 | 129,636,287 | 90.3 % | 642,621,478 | 20.17 % |
| 2009 | 1,309,124,035 | 1,515,562,589 | 206,438,554 | 86.4 % | 630,824,994 | 32.73 % |
| 2010 | 1,382,144,020 | 1,648,733,153 | 266,589,133 | 83.8 % | 616,481,375 | 43.24 % |
| 2011 | 1,466,749,540 | 1,914,464,397 | 447,714,857 | 76.6 % | 609,243,354 | 73.49 % |
| 2012 | 1,512,989,421 | 2,140,662,415 | 627,672,994 | 70.7 % | 626,223,066 | 100.23 % |

Results before 2009 were calculated by the prior actuary.

GASB STATEMENT NO. 25 SUPPLEMENTARY INFORMATION

SCHEDULE OF EMPLOYER CONTRIBUTIONS

| Fiscal Year Ended June 30 | Annual Required Contribution |
|--|---|
| 2000 | \$16,876,163 |
| 2001 | 14,927,396 |
| 2002 | 7,101,111 |
| 2003 | 7,397,596 |
| 2004 | 14,555,335 |
| 2005 | 16,291,914 |
| 2006 | 24,028,050 |
| 2007 | 24,622,693 |
| 2008 | 45,932,170 |
| 2009 | 56,015,138 |
| 2010 | 54,437,078 |
| 2011 | 52,097,600 (est.) |
| 2012 | 56,813,980 (est.) |
| 2013 | 67,773,601 (est.) |
| 2014 | 86,853,695 (est.) |

Fiscal Years prior to 2011 provided by the prior actuary.

Beginning with the 2011 fiscal year, this schedule shows the estimated annual required contribution (calculated based on recommended contribution rate and the projected payroll for the fiscal year). Actual amounts reported in the employer's financial statements may be different, due to differences between the projected payroll and the actual payroll during the fiscal year.

GASB STATEMENT NO. 25 SUPPLEMENTARY INFORMATION

SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS

The information presented in the required supplementary schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation follows:

| | |
|-------------------------------|---|
| Valuation date | June 30, 2012 |
| Actuarial cost method | Entry Age Normal |
| Amortization method | Level percent-of-pay closed |
| Remaining amortization period | 24 years |
| Asset valuation method | 7-year smoothed market 80%/120% market |
| Actuarial assumptions: | |
| Investment rate of return | 8.00% |
| Projected salary increases | 5.0% - 8.25% |
| Payroll growth | 5.0% |
| Cost-of-living adjustments | None |

GASB STATEMENT NO. 45 SUPPLEMENTARY INFORMATION

The following information is presented concerning the post-retirement health insurance subsidy. The liabilities and computed contribution for the post-retirement health insurance subsidy were based on the same assumptions and actuarial cost methods as indicated for GASB Statement No. 25.

As of the June 30, 2012 valuation, an 8.00% interest rate assumption was used. It is our understanding that currently assets are not segregated to fund these liabilities. As a result, according to GASB Statement No. 45, these benefits may not be considered to be pre-funded. In that case the 8.00% interest rate assumption may not be appropriate. This issue should be discussed with the auditors and with legal counsel.

SCHEDULE OF FUNDING PROGRESS

| Valuation Date | Actuarial Value of Assets | Actuarial Accrued Liability (AAL) | Unfunded AAL (UAAL) | Funded Ratio | Annual Covered Payroll | UAAL as a % of Covered Payroll |
|-----------------------|----------------------------------|--|----------------------------|---------------------|-------------------------------|---------------------------------------|
| June 30 | (a) | (b) | (b-a) | (a/b) | (c) | ((b-a)/c) |
| 2006 | \$0 | \$45,454,331 | \$45,454,331 | 0.00% | \$437,743,658 | 10.4% |
| 2007 | 0 | 48,990,212 | 48,990,212 | 0.00 | 515,427,641 | 9.5% |
| 2008 | 0 | 53,700,864 | 53,700,864 | 0.00 | 642,621,478 | 8.4% |
| 2009 | 0 | 68,730,755 | 68,730,755 | 0.00 | 630,824,994 | 10.9% |
| 2010 | 0 | 73,272,493 | 73,272,493 | 0.00 | 616,481,375 | 11.9% |
| 2011 | 0 | 94,105,048 | 94,105,048 | 0.00 | 609,243,354 | 15.4% |
| 2012 | 0 | 90,881,845 | 90,881,845 | 0.00 | 626,223,066 | 14.5% |

ANNUAL REQUIRED CONTRIBUTION

| Valuation Date June 30 | Fiscal Year Ended June 30 | Normal Cost (a) | Actuarial Accrued Liability (b) | Total (a+b) | Dollar Amount |
|-----------------------------------|--------------------------------------|----------------------------|--|------------------------|----------------------|
| 2005 | 2007 | 0.59% | 0.59% | 1.18% | \$5,742,051 |
| 2006 | 2008 | 0.43% | 0.41% | 0.84% | 5,398,020 |
| 2007 | 2009 | 0.51% | 0.44% | 0.95% | 6,245,994 |
| 2008 | 2010 | 0.43% | 0.41% | 0.84% | 5,178,444 |
| 2009 | 2011 | 0.61% | 0.54% | 1.15% | 8,074,426 |
| 2010 | 2012 | 0.62% | 0.60% | 1.22% | 8,371,142 |
| 2011 | 2013 | 0.39% | 0.83% | 1.22% | 8,194,628 |
| 2012 | 2014 | 0.33% | 0.77% | 1.10% | 7,594,520 |

Fiscal Years prior to 2011 provided by the prior actuary.

Health Insurance Subsidy Payment Reported for FY 2012: \$2,890,441

Note: GASB Statement No. 45 Supplementary information is shown individually in the separate reports for each participating unit.

APPENDIX II

SUMMARY OF POPULATION DATA BY INDIVIDUAL EMPLOYERS

Arizona Corrections Officer Retirement Plan Annual Actuarial Valuation

| Division Number | Employer Name | Number of Actives | Active Payroll | Number of Retirees | Annual Retiree Benefits | Number of Vested Inactive | Annual Vested Benefits |
|------------------------|---|--------------------------|-----------------------|---------------------------|--------------------------------|----------------------------------|-------------------------------|
| 575 | ADMINISTRATIVE OFFICE OF THE COURTS | 2,069 | \$ 99,993,909 | 318 | \$ 11,983,134 | 149 | \$ 2,527,931 |
| 520 | APACHE COUNTY - Detention | 25 | 726,536 | 5 | 91,338 | 6 | 32,607 |
| 506 | CITY OF AVONDALE - Detention | 9 | 513,216 | - | - | - | - |
| 562 | CITY OF SOMERTON - Dispatchers | 6 | 169,726 | 1 | 31,707 | 1 | 7,507 |
| 525 | COCHISE COUNTY - Detention | 60 | 2,040,244 | 23 | 341,601 | 9 | 92,077 |
| 530 | COCONINO COUNTY - Detention | 92 | 3,334,290 | 5 | 129,182 | 27 | 179,981 |
| 500 | DEPARTMENT OF CORRECTIONS - Detention | 8,701 | 350,701,871 | 2,264 | 52,906,676 | 394 | 11,184,223 |
| 501 | DEPT OF JUVENILE CORRECTIONS - Detention | 506 | 19,339,530 | 212 | 5,407,786 | 143 | 2,648,424 |
| 563 | DEPARTMENT OF PUBLIC SAFETY - Dispatchers | 59 | 2,884,224 | 4 | 158,699 | 3 | 71,110 |
| 503 | GILA COUNTY - Detention | 64 | 2,286,873 | 5 | 66,402 | 12 | 65,292 |
| 558 | GILA COUNTY - Dispatchers | 9 | 372,217 | 2 | 50,231 | 5 | 84,594 |
| 504 | GRAHAM COUNTY - Detention | 32 | 1,203,742 | 4 | 102,304 | 7 | 88,591 |
| 560 | GRAHAM COUNTY - Dispatchers | 9 | 307,905 | - | - | 2 | 6,055 |
| 505 | MARICOPA COUNTY - Detention | 2,010 | 86,771,260 | 372 | 10,228,805 | 118 | 1,203,750 |
| 535 | MOHAVE COUNTY - Detention | 116 | 4,017,855 | 11 | 169,110 | 27 | 140,363 |
| 545 | NAVAJO COUNTY - Detention | 51 | 1,722,806 | 6 | 129,908 | 11 | 134,265 |
| 515 | PIMA COUNTY - Detention | 504 | 21,743,079 | 159 | 4,132,380 | 69 | 764,329 |
| 502 | PINAL COUNTY - Detention | 268 | 13,102,063 | 13 | 429,508 | 29 | 390,039 |
| 555 | PINAL COUNTY - Dispatchers | 22 | 861,529 | 2 | 52,470 | 8 | 69,556 |
| 540 | SANTA CRUZ COUNTY - Detention | 48 | 1,486,605 | 4 | 96,856 | 12 | 71,815 |
| 557 | TOWN OF MARANA - Dispatchers | 11 | 530,695 | - | - | 3 | 9,488 |
| 556 | TOWN OF ORO VALLEY - Dispatchers | 9 | 451,808 | 3 | 64,891 | 2 | 1,875 |
| 559 | TOWN OF WICKENBURG - Dispatchers | 4 | 179,348 | 2 | 28,213 | 1 | 2,322 |
| 550 | YAVAPAI COUNTY - Detention | 150 | 5,759,053 | 37 | 694,941 | 41 | 357,487 |
| 561 | YAVAPAI COUNTY - Dispatchers | 8 | 298,012 | 1 | 37,760 | 2 | 13,933 |
| 510 | YUMA COUNTY - Detention | 149 | 5,424,670 | 23 | 584,446 | 20 | 276,906 |
| TOTAL | | 14,991 | \$ 626,223,066 | 3,476 | \$ 87,918,348 | 1,101 | \$ 20,424,520 |

APPENDIX III

SUMMARY OF LIABILITY AND ASSET INFORMATION BY INDIVIDUAL EMPLOYERS

Arizona Corrections Officer Retirement Plan Annual Actuarial Valuation

| Division Number | Employer Name | Total AAL | Total Assets | Reserve for future Pension Increases | Net Assets | Funded Percent | Unfunded Liability |
|--------------------|---|------------------|------------------|---|------------------|-------------------|-----------------------|
| 575 | ADMINISTRATIVE OFFICE OF THE COURTS | \$ 443,125,469 | \$ 288,936,048 | - | \$ 288,936,048 | 65.20% | \$ 154,189,421 |
| 520 | APACHE COUNTY - Detention | 1,777,708 | 1,483,800 | - | 1,483,800 | 83.50% | 293,908 |
| 506 | CITY OF AVONDALE - Detention | 1,084,456 | 807,901 | - | 807,901 | 74.50% | 276,555 |
| 562 | CITY OF SOMERTON - Dispatchers | 802,020 | 404,239 | - | 404,239 | 50.40% | 397,781 |
| 525 | COCHISE COUNTY - Detention | 7,458,134 | 5,424,907 | - | 5,424,907 | 72.70% | 2,033,227 |
| 530 | COCONINO COUNTY - Detention | 7,125,625 | 6,105,365 | - | 6,105,365 | 85.70% | 1,020,260 |
| 500 | DEPARTMENT OF CORRECTIONS - Detention | 1,207,820,816 | 821,350,701 | - | 821,350,701 | 68.00% | 386,470,115 |
| 501 | DEPT OF JUVENILE CORRECTIONS - Detention | 95,447,303 | 67,528,600 | - | 67,528,600 | 70.70% | 27,918,703 |
| 563 | DEPARTMENT OF PUBLIC SAFETY - Dispatchers | 11,133,660 | 7,880,376 | - | 7,880,376 | 70.80% | 3,253,284 |
| 503 | GILA COUNTY - Detention | 3,710,361 | 3,396,424 | - | 3,396,424 | 91.50% | 313,937 |
| 558 | GILA COUNTY - Dispatchers | 1,725,476 | 1,426,850 | - | 1,426,850 | 82.70% | 298,626 |
| 504 | GRAHAM COUNTY - Detention | 2,363,701 | 1,903,185 | - | 1,903,185 | 80.50% | 460,516 |
| 560 | GRAHAM COUNTY - Dispatchers | 447,233 | 452,760 | - | 452,760 | 101.20% | (5,527) |
| 505 | MARICOPA COUNTY - Detention | 284,594,043 | 194,081,165 | - | 194,081,165 | 68.20% | 90,512,878 |
| 535 | MOHAVE COUNTY - Detention | 5,516,552 | 6,208,354 | - | 6,208,354 | 112.50% | (691,802) |
| 545 | NAVAJO COUNTY - Detention | 3,789,772 | 3,397,424 | - | 3,397,424 | 89.60% | 392,348 |
| 515 | PIMA COUNTY - Detention | 86,686,756 | 51,797,240 | - | 51,797,240 | 59.80% | 34,889,516 |
| 502 | PINAL COUNTY - Detention | 27,812,698 | 21,767,215 | - | 21,767,215 | 78.30% | 6,045,483 |
| 555 | PINAL COUNTY - Dispatchers | 2,084,535 | 1,417,935 | - | 1,417,935 | 68.00% | 666,600 |
| 540 | SANTA CRUZ COUNTY - Detention | 2,052,859 | 2,213,643 | - | 2,213,643 | 107.80% | (160,784) |
| 557 | TOWN OF MARANA - Dispatchers | 1,185,335 | 757,933 | - | 757,933 | 63.90% | 427,402 |
| 556 | TOWN OF ORO VALLEY - Dispatchers | 1,966,574 | 1,173,314 | - | 1,173,314 | 59.70% | 793,260 |
| 559 | TOWN OF WICKENBURG - Dispatchers | 640,365 | 397,001 | - | 397,001 | 62.00% | 243,364 |
| 550 | YAVAPAI COUNTY - Detention | 15,989,487 | 10,194,348 | - | 10,194,348 | 63.80% | 5,795,139 |
| 561 | YAVAPAI COUNTY - Dispatchers | 807,849 | 683,940 | - | 683,940 | 84.70% | 123,909 |
| 510 | YUMA COUNTY - Detention | 14,395,473 | 11,798,753 | - | 11,798,753 | 82.00% | 2,596,720 |
| TOTAL | | \$ 2,231,544,260 | \$ 1,512,989,421 | - | \$ 1,512,989,421 | | \$ 718,554,839 |

APPENDIX IV

SUMMARY OF CONTRIBUTION INFORMATION BY
INDIVIDUAL EMPLOYERS

Arizona Corrections Officer Retirement Plan Annual Actuarial Valuation

| Division Number | Employer Name | ER NC% | UAL Pmt % | Calculated ER Cont | Required ER Cont |
|--------------------|---|-----------|--------------|-----------------------|---------------------|
| 575 | ADMINISTRATIVE OFFICE OF THE COURTS | 7.32% | 8.26% | 15.58% | 15.58% |
| 520 | APACHE COUNTY - Detention | 7.60% | 2.18% | 9.78% | 9.78% |
| 506 | CITY OF AVONDALE - Detention | 7.15% | 2.88% | 10.03% | 10.03% |
| 562 | CITY OF SOMERTON - Dispatchers | 7.61% | 12.70% | 20.31% | 20.31% |
| 525 | COCHISE COUNTY - Detention | 7.70% | 5.38% | 13.08% | 13.08% |
| 530 | COCONINO COUNTY - Detention | 7.72% | 1.67% | 9.39% | 9.39% |
| 500 | DEPARTMENT OF CORRECTIONS - Detention | 7.52% | 5.93% | 13.45% | 13.45% |
| 501 | DEPT OF JUVENILE CORRECTIONS - Detention | 7.59% | 7.80% | 15.39% | 15.39% |
| 563 | DEPARTMENT OF PUBLIC SAFETY - Dispatchers | 6.84% | 6.15% | 12.99% | 12.99% |
| 503 | GILA COUNTY - Detention | 8.80% | 0.77% | 9.57% | 9.57% |
| 558 | GILA COUNTY - Dispatchers | 6.79% | 4.41% | 11.20% | 11.20% |
| 504 | GRAHAM COUNTY - Detention | 7.77% | 2.11% | 9.88% | 9.88% |
| 560 | GRAHAM COUNTY - Dispatchers | 7.76% | 0.00% | 7.76% | 7.76% |
| 505 | MARICOPA COUNTY - Detention | 7.56% | 5.61% | 13.17% | 13.17% |
| 535 | MOHAVE COUNTY - Detention | 8.16% | 0.00% | 8.16% | 8.16% |
| 545 | NAVAJO COUNTY - Detention | 8.07% | 1.27% | 9.34% | 9.34% |
| 515 | PIMA COUNTY - Detention | 7.25% | 8.61% | 15.86% | 15.86% |
| 502 | PINAL COUNTY - Detention | 7.70% | 2.50% | 10.20% | 10.20% |
| 555 | PINAL COUNTY - Dispatchers | 6.93% | 4.22% | 11.15% | 11.15% |
| 540 | SANTA CRUZ COUNTY - Detention | 7.94% | 0.00% | 7.94% | 7.94% |
| 557 | TOWN OF MARANA - Dispatchers | 6.78% | 4.41% | 11.19% | 11.19% |
| 556 | TOWN OF ORO VALLEY - Dispatchers | 6.80% | 9.49% | 16.29% | 16.29% |
| 559 | TOWN OF WICKENBURG - Dispatchers | 8.30% | 7.27% | 15.57% | 15.57% |
| 550 | YAVAPAI COUNTY - Detention | 7.63% | 5.41% | 13.04% | 13.04% |
| 561 | YAVAPAI COUNTY - Dispatchers | 7.93% | 2.31% | 10.24% | 10.24% |
| 510 | YUMA COUNTY - Detention | 7.68% | 2.61% | 10.29% | 10.29% |
| TOTAL | | 7.50% | 6.18% | 13.68% | 13.68% |

October 12, 2012

Mr. James Hacking
Administrator
Arizona Corrections Officer Retirement Plan
3010 E. Camelback Road, Suite 200
Phoenix, Arizona 85016

Re: Report of the June 30, 2012 Actuarial Valuation of CORP

Dear Mr. Hacking:

Enclosed please find 5 copies of this report.

Any questions or comments you may develop will be welcomed.

Sincerely,

A handwritten signature in black ink that reads "Mark Buis". The signature is written in a cursive, slightly slanted style.

Mark Buis, FSA, EA, MAAA

MB:mr
Enclosures