

PRESCOTT FIRE DEPT. (023)

**ARIZONA PUBLIC SAFETY PERSONNEL
RETIREMENT SYSTEM**

JUNE 30, 2014

October 27, 2014

The Board of Trustees
Arizona Public Safety Personnel Retirement System
Phoenix, Arizona

Re: Prescott Fire Dept.

Ladies and Gentlemen:

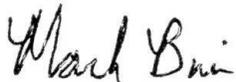
The results of the June 30, 2014 annual actuarial valuation of members covered by the Arizona Public Safety Personnel Retirement System (PSPRS) are presented in this report. The purpose of the valuation was to measure the System's funding progress, provide actuarial information in connection with applicable Governmental Accounting Standards Board Statements and to determine the employer contribution for the 2015-2016 fiscal year. The funding objective is stated in Article 4, Chapter 5, Title 38, Sections 843B and 848N of the Arizona Revised Statutes. 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 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. Mark Buis, James D. Anderson and Francois Pieterse 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,



Mark Buis, FSA, EA, MAAA



James D. Anderson, FSA, EA, MAA



Francois Pieterse, ASA, MAAA

MB/JDA:sc

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SECTION A
INTRODUCTION

FUNDING OBJECTIVE

The purpose of the annual actuarial valuation of the Arizona Public Safety Personnel Retirement System as of June 30, 2014 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, 2015. 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, 2015 are shown on page A-2.

CONTRIBUTION REQUIREMENTS

Development of Employer Contributions for the Indicated Valuation Date

Valuation Date	<u>June 30, 2013</u>	<u>June 30, 2014</u>
Contribution for Fiscal Year ending	2015	2016
Pension		
Normal cost requirement		
Service pensions	16.04 %	15.26 %
Disability pensions	1.30	1.60
Survivors of active members	0.64	0.78
Refunds of members' accumulated contributions	<u>1.24</u>	<u>1.38</u>
Total normal cost requirement	19.22 %	19.02 %
Employee Contributions		
Total employee rate	11.05	11.65
Less portion used to pay down unfunded liability	<u>3.40</u>	<u>4.00</u>
Net employee rate	<u>7.65 %</u>	<u>7.65 %</u>
Employer normal cost requirement	11.57 %	11.37 %
Amortization of unfunded liabilities	<u>46.34 %</u>	<u>63.12 %</u>
Total recommended pension contribution rate (before phase-in)	57.91 %	74.49 %
Total pension contribution rate (after phase-in)	N/A	63.44 %
Health		
Normal cost requirement	0.34 %	0.33 %
Amortization of unfunded liabilities	<u>1.41 %</u>	<u>(0.33) %</u>
Total health contribution requirement	1.75 %	0.00 %
Total contribution rate (before phase-in)	59.66 %	74.49 %
Total contribution rate (after phase-in)	N/A	63.44 %
Minimum contribution requirement (if applicable)	N/A	N/A

The results above are shown both prior to and after the application of the statutory minimum contribution requirement of 8% of payroll (5% of payroll if the actual employer contribution rate is less than 5% for the 2006/2007 Fiscal Year). Please see important comments regarding the contribution on page A-3.

CONTRIBUTION REQUIREMENTS

Comments

Comment 1. Unfunded liabilities were amortized as level percent of payroll over a closed period of 22 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.

Comment 2. A transfer of assets from the pension plan to the health plan was made this year. In accordance with IRS rules, assets dedicated to pay retiree health care benefits must be segregated from assets dedicated to pay pension benefits. The Retirement System provided the asset split for the year ending June 30, 2014. This resulted in an increase in the pension contribution rate with an equivalent decrease in the health contribution rate.

Comment 3. The pension contribution rate increased significantly for most employers. This arose primarily due to the repeal of certain aspects of SB1609 which resulted in much larger recognition of liabilities related to Permanent Benefit Increases (PBI). The contribution rate also increased due to the continued recognition of 2008-2009 asset losses, or in some cases population movements. While it is recommended that employers contribute the full amount, the Board adopted a policy to allow employers to phase-in the pension contribution rate increase over 3 years, if necessary. Results on page A-2 show the contribution rate before and after the phase-in. Plans that have a funded ratio below 50% are strongly encouraged to contribute the full amount prior to phase-in.

SECTION B
FUNDING RESULTS

PRESENT VALUE OF FUTURE BENEFITS AND ACCRUED LIABILITY

	<u>June 30, 2013</u>	<u>June 30, 2014</u>
Pension		
A. Accrued Liability		
1. For retirees and beneficiaries	\$ 30,102,935	\$ 36,943,774
2. For DROP members	4,864,158	5,187,830
3. For vested terminated members	210,850	144,227
4. For present active members		
a. Value of expected future benefit payments	15,081,674	15,894,501
b. Value of future normal costs	<u>(5,293,068)</u>	<u>(5,672,551)</u>
c. Active member accrued liability: (a) - (b)	<u>9,788,606</u>	<u>10,221,950</u>
5. Total accrued liability	44,966,549	52,497,781
B. Present Assets (Funding Value)	19,144,554	16,724,687
C. Unfunded Accrued Liability: (A.5) - (B)	25,821,995	35,773,094
D. Stabilization Reserve	<u>-</u>	<u>-</u>
E. Net Unfunded Accrued Liability: (C) + (D)	<u>\$ 25,821,995</u>	<u>\$ 35,773,094</u>
F. Funding Ratio: (B) / (A.5)	<u>42.6%</u>	<u>31.9%</u>
Health		
A. Accrued Liability		
1. For retirees and beneficiaries	\$ 321,848	\$ 384,351
2. For DROP members	126,462	125,344
3. For present active members		
a. Value of expected future benefit payments	445,076	448,071
b. Value of future normal costs	<u>(95,783)</u>	<u>(101,150)</u>
c. Active member accrued liability: (a) - (b)	<u>349,293</u>	<u>346,921</u>
4. Total accrued liability	797,603	856,616
B. Present Assets (Funding Value)	<u>-</u>	<u>1,083,850</u>
C. Net Unfunded Accrued Liability: (A.4) - (B)	<u>\$ 797,603</u>	<u>\$ (227,234)</u>
D. Funding Ratio: (B) / (A.4)	<u>0.0%</u>	<u>126.5%</u>

SECTION C
FUND ASSETS

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

Year Ended June 30:	2014	2015	2016	2017	2018	2019	2020
A. Funding Value Beginning of Year (Including Future Benefit Increases)	\$ 5,905,509,127						
B. Market Value End of Year	5,935,524,128						
C. Market Value Beginning of Year	5,306,086,372						
D. Non Investment Net Cash Flow	(65,772,608)						
E. Investment Income							
E1. Total: B-C-D	695,210,364						
E2. Amount for Immediate Recognition: (8.00%)	461,000,892						
E3. Amount for Phased-in Recognition: E1-E2	234,209,472						
F. Phased-in Recognition of Investment Income							
F1. Current Year: E3 / 7	33,458,496						
F2. First Prior Year	9,542,555	\$ 33,458,496					
F3. Second Prior Year	(72,234,304)	9,542,555	\$ 33,458,496				
F4. Third Prior Year	40,557,028	(72,234,304)	9,542,555	\$ 33,458,496			
F5. Fourth Prior Year	9,473,791	40,557,028	(72,234,304)	9,542,555	\$ 33,458,496		
F6. Fifth Prior Year	(183,695,537)	9,473,791	40,557,028	(72,234,304)	9,542,555	\$ 33,458,496	
F7. Sixth Prior Year	(118,855,348)	(183,605,170)	9,473,791	40,557,031	(72,234,303)	9,542,556	\$ 33,458,496
F8. Funding Value Corridor Adjustment							
F9. Total Recognized Investment Gain	(281,753,319)	(162,807,604)	20,797,566	11,323,778	(29,233,252)	43,001,052	33,458,496
G. Funding Value End of Year							
G1. Preliminary Funding Value End of Year: (A+D+E2+F1:F7)	6,018,984,092						
G2. Upper Corridor: (120% x B)	7,122,628,954						
G3. Lower Corridor: (80% x B)	4,748,419,302						
G4. End of Year: (G1 subject to max of G2 and min of G3)	6,018,984,092						
H. Difference Between Market Value & Funding Value: (B-G4)	(83,459,964)	79,347,640	58,550,074	47,226,296	76,459,548	33,458,496	0
I. Market Rate of Return	13.2%						
J. Recognized Rate of Return	3.1%						
K. Ratio of Funding Value to Market Value	101.4%						
L. Market Value of Assets for Division	16,492,780						
M. Funding Value of Assets for Division	16,724,687						

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.

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

Year Ended June 30:	2014	2015	2016	2017	2018	2019	2020
A. Funding Value Beginning of Year (Including Future Benefit Increases)	\$ 279,564,484						
B. Market Value End of Year	290,897,309						
C. Market Value Beginning of Year	251,188,046						
D. Non Investment Net Cash Flow	5,956,011						
E. Investment Income							
E1. Total: B-C-D	33,753,252						
E2. Amount for Immediate Recognition: (8.00%)	22,179,585						
E3. Amount for Phased-in Recognition: E1-E2	11,573,667						
F. Phased-in Recognition of Investment Income							
F1. Current Year: E3 / 7	1,653,381						
F2. First Prior Year	451,741	\$ 1,653,381					
F3. Second Prior Year	(3,419,544)	451,741	\$ 1,653,381				
F4. Third Prior Year	1,919,954	(3,419,544)	451,741	\$ 1,653,381			
F5. Fourth Prior Year	448,486	1,919,954	(3,419,544)	451,741	\$ 1,653,381		
F6. Fifth Prior Year	(8,696,075)	448,486	1,919,954	(3,419,544)	451,741	\$ 1,653,381	
F7. Sixth Prior Year	(5,626,565)	(8,691,797)	448,486	1,919,954	(3,419,544)	451,740	\$ 1,653,381
F8. Funding Value Corridor Adjustment							
F9. Total Recognized Investment Gain	(13,268,622)	(7,637,779)	1,054,018	605,532	(1,314,422)	2,105,121	1,653,381
G. Funding Value End of Year							
G1. Preliminary Funding Value End of Year: (A+D+E2+F1:F7)	294,431,458						
G2. Upper Corridor: (120% x B)	349,076,771						
G3. Lower Corridor: (80% x B)	232,717,847						
G4. End of Year: (G1 subject to max of G2 and min of G3)	294,431,458						
H. Difference Between Market Value & Funding Value: (B-G4)	(3,534,149)	4,103,630	3,049,612	2,444,080	3,758,502	1,653,381	0
I. Market Rate of Return	13.3%						
J. Recognized Rate of Return	3.2%						
K. Ratio of Funding Value to Market Value	101.2%						
L. Market Value of Assets for Division	1,070,841						
M. Funding Value of Assets for Division	1,083,850						

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.

SECTION D
CENSUS DATA

JUNE 30, 2014 VALUATION DATA SUMMARY

For purposes of the June 30, 2014 valuation, information on covered persons was furnished by the Board of Trustees. These people may be briefly described as follows.

	No.	Averages		
		Age	Service	Annual Pay or Retirement Allowance
Actives	53	39.5	10.4	\$67,577
Retirees & Beneficiaries	56			51,515
DROP	7			50,002
Inactive Vested	7			
	123			

ACTIVE MEMBERS

**Members in Active Service as of June 30, 2014
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	3							3	\$ 128,174	\$ 42,725
25 - 29	5	2						7	339,480	48,497
30 - 34	1	3						4	218,531	54,633
35 - 39	3	3	5	2				13	836,041	64,311
40 - 44	1	1	5	3				10	666,527	66,653
45 - 49	1	2	3	4	1			11	903,517	82,138
50 - 54				1			1	2	197,843	98,922
55 - 59	1			1				2	202,020	101,010
60 - 64				1				1	89,459	89,459
65 and over								-	0	0
Total	15	11	13	12	1	-	1	53	\$ 3,581,592	\$ 67,577

TERMINATED VESTED MEMBERS

Age	Years of Service					Total Count
	0 - 4	5 - 9	10 - 14	15 - 19	20 & Up	
Under 30	2					2
30 - 39	2	2				4
40 - 44	1					1
45 - 49						0
50 - 54						0
55 - 59						0
60 - 69						0
70 and over						0
Total	5	2	0	0	0	7

RETIREES AND BENEFICIARIES

Attained Ages	Males		Females		Total	
	No.	Annual Benefits	No.	Annual Benefits	No.	Annual Benefits
Under 25	0	\$ 0	0	\$ 0	0	\$ 0
25-29	0	0	2	127,659	2	127,659
30-34	0	0	3	196,655	3	196,655
35-39	0	0	1	101,483	1	101,483
40-44	0	0	0	0	0	0
45-49	2	96,961	0	0	2	96,961
50-54	7	359,107	1	36,756	8	395,863
55-59	8	419,848	2	76,702	10	496,550
60-64	11	603,019	0	0	11	603,019
65-69	12	575,976	1	40,500	13	616,476
70-74	2	100,319	0	0	2	100,319
75-79	0	0	2	69,971	2	69,971
80-84	1	42,095	0	0	1	42,095
85-89	0	0	1	37,791	1	37,791
90-94	0	0	0	0	0	0
95-99	0	0	0	0	0	0
100 and Over	0	0	0	0	0	0
Totals	43	\$ 2,197,325	13	\$ 687,517	56	\$ 2,884,842

<u>Pension Being Paid</u>		<u>Number</u>	<u>Annual Pensions</u>	<u>Average Pensions</u>
Retired Members	Service Pensions	38	\$1,964,156	\$51,688
	Disability Pensions	5	233,169	46,634
Totals		43	2,197,325	51,101
Survivors of Members	Spouses	13	687,517	52,886
	Children with Guardians	0	0	0
Total		13	687,517	52,886
Total Pension being Paid		56	\$2,884,842	\$51,515
		<u>Average Age</u>	<u>Average Service</u>	<u>Average Age at Retirement</u>
Normal retired members		61.4	22.9	49.9
Disability retired members		62.4	18.8	46.3
Spouse beneficiaries		51.9	12.2	38.5

DROP MEMBERS

Attained Ages	Males		Females		Total	
	No.	Annual Benefits	No.	Annual Benefits	No.	Annual Benefits
Under 45	0	\$ 0	0	\$ 0	0	\$ 0
45-49	1	44,345	0	0	1	44,345
50-54	4	187,532	0	0	4	187,532
55-59	2	118,140	0	0	2	118,140
60-64	0	0	0	0	0	0
65 and Over	0	0	0	0	0	0
Totals	7	\$350,017	0	\$0	7	\$350,017

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 22 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 4.0% 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 7.85% 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 7.85% nominal rate translates to a net real return over wage growth of 3.85% 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.

Salary Increase Assumptions For An Individual Member									
Sample Ages	Merit & Seniority				Base (Economy)	Increase Next Year			
	Police Large	Police Small	Fire Large	Fire Small		Police Large	Police Small	Fire Large	Fire Small
20	4.00%	4.00%	4.00%	4.00%	4.00%	8.00%	8.00%	8.00%	8.00%
25	3.70%	3.16%	3.70%	3.70%	4.00%	7.70%	7.16%	7.70%	7.70%
30	2.60%	2.12%	2.90%	2.66%	4.00%	6.60%	6.12%	6.90%	6.66%
35	1.22%	1.17%	1.54%	1.32%	4.00%	5.22%	5.17%	5.54%	5.32%
40	0.52%	0.36%	0.48%	0.41%	4.00%	4.52%	4.36%	4.48%	4.41%
45	0.28%	0.10%	0.14%	0.12%	4.00%	4.28%	4.10%	4.14%	4.12%
50	0.14%	0.07%	0.04%	0.07%	4.00%	4.14%	4.07%	4.04%	4.07%
55	0.04%	0.02%	0.00%	0.02%	4.00%	4.04%	4.02%	4.00%	4.02%
60	0.00%	0.00%	0.00%	0.00%	4.00%	4.00%	4.00%	4.00%	4.00%
65	0.00%	0.00%	0.00%	0.00%	4.00%	4.00%	4.00%	4.00%	4.00%
Ref	383	384	385	386	4.00%				

Active Member Payroll is assumed to grow at 4.0% 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 projected to 2015 using projection scale AA (adjusted by 105% for males and females). This assumption was first used for the June 30, 2012 valuation of the System and includes margin for future improvements in mortality. 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	0.17%	0.14%	31.88	33.93
55	0.29	0.25	27.19	29.20
60	0.56	0.49	22.67	24.66
65	1.08	0.95	18.43	20.39
70	1.86	1.63	14.56	16.49
75	3.22	2.62	11.04	12.95
80	5.81	4.34	8.00	9.80
Ref:	397 x 1.05 0 year set forward	398 x 1.05 0 year set forward		

This assumption is used to measure the probabilities of each benefit payment being made after retirement.

The disabled mortality table used to evaluate death after retirement in this valuation of the System was the RP 2000 Mortality table projected to 2015 using projection scale AA 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	0.53%	0.47%	23.05	25.08
55	1.03	0.90	18.79	20.80
60	1.77	1.55	14.89	16.86
65	3.06	2.49	11.34	13.29
70	5.54	4.13	8.25	10.09
75	9.97	7.08	5.81	7.35
80	17.27	12.59	4.02	5.30
Ref:	397 x 1.00 10 year set forward	398 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	0.10%	0.08%
55	0.16	0.14
60	0.32	0.28
65	0.62	0.54
Ref:	397 x 0.60 0 year set back	398 x 0.60 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. This assumption was first used for the June 30, 2012 valuation of the System.

Retirement/DROP Rates: Age-related rates for employees who were hired before January 1, 2012 are shown below:

Age at Retirement	Rates			
	Police Large	Police Small	Fire Large	Fire Small
62	75%	75%	75%	75%
63	60%	60%	60%	60%
64	60%	60%	60%	60%
65	60%	60%	60%	60%
66	60%	60%	60%	60%
67	60%	60%	60%	60%
68	60%	60%	60%	60%
69	60%	60%	60%	60%
70	100%	100%	100%	100%
Ref.	2145	2145	2145	2145

These retirement rates are applicable to employees attaining age 62 before attaining 20 years of service.

VALUATION ASSUMPTIONS

Service-related rates for employees who were hired before January 1, 2012 are shown below:

Service at Retirement	Rates			
	Police Large	Police Small	Fire Large	Fire Small
20	25%	37%	14%	20%
21	17%	33%	12%	20%
22	17%	20%	7%	10%
23	10%	13%	7%	10%
24	10%	10%	7%	8%
25	40%	35%	27%	25%
26	40%	35%	30%	25%
27	35%	30%	25%	25%
28	32%	30%	37%	25%
29	32%	30%	37%	25%
30	38%	30%	37%	35%
31	42%	30%	40%	35%
32	75%	75%	50%	35%
33	75%	75%	50%	35%
34	100%	100%	100%	100%
Ref.	2146	2147	2148	2149

These retirement rates are applicable to employees attaining 20 years of service before attaining age 62.

Age-related rates for employees who were hired after January 1, 2012 are shown below:

Age at Retirement	Rates			
	Police Large	Police Small	Fire Large	Fire Small
53	10%	15%	10%	10%
54	10%	10%	10%	10%
55	45%	40%	30%	20%
56	45%	40%	45%	30%
57	45%	30%	30%	30%
58	45%	30%	45%	30%
59	45%	30%	45%	30%
60	50%	30%	45%	45%
61	50%	30%	50%	45%
62	80%	65%	50%	45%
63	80%	65%	50%	45%
64	100%	100%	100%	100%
Ref.	1737	1738	1739	1740

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	Service Index	% of Active Members Separating Within Next Year			
		Police Large	Police Small	Fire Large	Fire Small
All	1	16.00%	15.00%	8.50%	7.50%
	2	7.00%	10.00%	2.50%	6.00%
	3	4.00%	9.00%	1.00%	5.00%
	4	3.00%	7.00%	1.00%	5.00%
	5	2.50%	6.00%	1.00%	5.00%
	10	2.00%	5.30%	1.00%	3.00%
	15	0.60%	1.80%	0.10%	1.00%
	20	0.50%	1.80%	0.10%	1.00%
Ref.		757	603	758	605

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			
	Police Large	Police Small	Fire Large	Fire Small
20	0.08%	0.12%	0.02%	0.03%
25	0.08%	0.12%	0.02%	0.03%
30	0.17%	0.23%	0.04%	0.03%
35	0.22%	0.28%	0.09%	0.07%
40	0.36%	0.46%	0.16%	0.16%
45	0.51%	0.63%	0.16%	0.44%
50	0.78%	1.60%	0.40%	0.60%
55	1.02%	1.60%	0.93%	1.04%
Ref	588	589	590	591
	80%	80%	80%	80%

The Fire Small group assumptions were used for the Prescott Fire Dept. valuation.

SUMMARY OF ASSUMPTIONS USED
JUNE 30, 2014
MISCELLANEOUS AND TECHNICAL ASSUMPTIONS

Marriage Assumption:	85% 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. 85% 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.
Health Care Utilization:	75% of future retirees are expected to utilize retiree health care. 85% of those are assumed to be married.
Assumed Future Permanent Benefit Increases (PBI):	Members Retired on or before July 1, 2011: 2% compounded on average. Members Retired on or after August 1, 2011: 0.5% compounded on average. Since all current retirees receive the same dollar increase amount, approximation techniques were used to develop the assumed PBI for each member.

SECTION F
PLAN PROVISIONS

SUMMARY OF PLAN PROVISIONS VALUED AND/OR CONSIDERED

Membership: Persons who are employed in an eligible group, prior to attaining age 65 years, for at least 40 hours a week for more than six months per year.

Average Monthly Compensation:

For members hired before January 1, 2012:

One-thirty-sixth of total compensation paid to member during the three years, out of the last 20 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.

For members hired on or after January 1, 2012:

One-sixtieth of total compensation paid to member during the five years, out of the last 20 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:

For members hired before January 1, 2012:

First day of month following completion of 20 years of service or following 62nd birthday and completion of 15 years of service.

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

- ***For retirement with 25 or more years of credited service,*** 50% of average monthly compensation for the first 20 years of credited service, plus 2-1/2% of average monthly compensation for each year of credited service above 20 years.
- ***For retirement with 20 years of credited service but less than 25 years of credited service,*** 50% of average monthly compensation for the first 20 years of credited service, plus 2% of average monthly compensation for each year of credited service between 20 and 25 years.
- ***For retirement with less than 20 years of credited service,*** the percent of average monthly compensation is reduced at a rate of 4% for each year less than 20 years of credited service.

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

For members hired on or after January 1, 2012:

First day of month following the attainment of age 52.5 and completion of 25 years of service.

SUMMARY OF PLAN PROVISIONS VALUED AND/OR CONSIDERED

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

- **For retirement with 25 years of credited service**, 62.5% of average monthly compensation.
- **For retirement with less than 25 years of credited service**, the monthly benefit is reduced at a rate of 4% for each year less than 25 years of credited service.
- **For retirement with more than 25 years of credited service**, the monthly benefit is increased by 2.5% of the average monthly compensation multiplied by the numbers of credited years greater than 25 years.

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

Vested Termination (deferred retirement): Termination of covered position employment with 10 or more years of credited service. Pension is calculated based on twice the member's accumulated contributions with payments commencing at age 62. Benefit is forfeited if accumulated contributions are refunded. The following schedule shows additional money which would be payable to members who receive a refund of their accumulated member contributions.

<u>Years of Credited Service</u>	<u>Additional Monies (% of Contributions)</u>
0-4	0%
5-6	25-40
7-8	55-70
9-10	85-100

For members hired on or after January 1, 2012 that cease to hold office for any reason other than death or retirement, member can withdraw their accumulated contributions less any benefit payments already received or any amount the member owes the plan (no employer match of refund contributions) with interest at rate set by Board.

Ordinary Disability Retirement (not duty-related): Physical condition which totally and permanently prevents performance of a reasonable range of duties or a mental condition which totally and permanently prevents any substantial gainful employment. The amount of pension is a percentage of normal pension on employee's credited service (maximum of 20 years divided by 20).

Accidental Disability Retirement (duty-related): Total and presumably permanent disability, incurred in performance of duty, preventing performance of a reasonable range of duties within the employee's job classification. No credited service requirement. Pension is computed in the same manner as normal pension based on credited service and average monthly compensation at time of termination of employment. Pension is 50% of average monthly compensation, or normal pension amount, whichever is greater.

SUMMARY OF PLAN PROVISIONS VALUED AND/OR CONSIDERED

Temporary Disability: Termination of employment prior to normal retirement eligibility by reason of temporary disability. Pension is 1/12 of 50% of compensation during the year preceding the date disability was incurred. Payments terminate after 12 months of prior recovery.

Catastrophic Disability: Pension is 90% of average monthly compensation. After 60 months, the pension is the greater of 62.5% of average monthly compensation or the member's accrued normal pension.

Survivor Pension: Death while a member is employed by an employer, or death after retirement. No credited service requirement.

Spouse Pension: 80% of pension deceased active member would have been paid for accidental disability retirement or, in the case of retired member, 80% of the retired member's pension. Requires two years of marriage*. Terminates upon death. For member killed in line of duty, 100% of average compensation, reduced by child's pension.

* If retired.

Child's Pension: 20% of the pension each month based on the calculation for an accidental disability retirement. Payable to a dependent child under age 18 or until age 23 if a full-time student.

Guardian's Pension: Same amount as spouse's pension. Payable only during periods no spouse is being paid and there is at least one child under age 18 or until age 23 if a full time student. 80% of the member's pension and the child's pension will be paid to the guardian.

Other Termination of Employment: Member is paid his/her accumulated contributions.

Permanent Benefit Increases:

For members retired on or before July 1, 2011:

Effective July 1 of each year, each retired member or survivor of a retired member may be entitled to a Permanent Benefit Increase (PBI) in base benefit. The maximum amount of the increase is four percent (4%) of the average normal PSPRS benefit being received on the preceding June 30 and is contingent upon sufficient excess investment earnings for the fund. To be eligible for the increase the member or survivor must be age 55 or older on July 1 of the current year and began receiving benefits on or before July 31 of the previous year. A member or survivor is also eligible if he began receiving benefits on or before July 31 of the two previous years regardless of age. A PBI reserve is maintained and used to pay for the post-retirement adjustment. The investment return on the PBI 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 PBI 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 PBI reserve. A post-retirement adjustment is paid as long as there is a positive balance in the PBI reserve.

SUMMARY OF PLAN PROVISIONS VALUED AND/OR CONSIDERED

For members retired on or after August 1, 2011:

A PBI is only paid in a year when the annual return on the market value of assets of the prior fiscal year exceeds 10.5% and the plan is at least 60% funded. 100% of the excess earnings is used to determine whether a PBI can be paid and the size of the PBI for that year. No PBI reserves will accumulate and the present value of that year's PBI 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 PBI, 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;
- 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; or
- 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 PBI to be paid is determined as follows:

- Funded ratio is 60-64%, PBI is 2%
- Funded ratio is 65-69%, PBI is 2.5%
- Funded ratio is 70-74%, PBI is 3%
- Funded ratio is 75-79%, PBI is 3.5%
- Funded ratio is 80% or more, PBI is 4%

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:

Member Only		With Dependents		
Not Medicare Eligible	Medicare Eligible	All Not Medicare Eligible	All Medicare Eligible	One With Medicare
\$150	\$100	\$260	\$170	\$215

SUMMARY OF PLAN PROVISIONS VALUED AND/OR CONSIDERED

Deferred Retirement Option Plan (DROP): A member hired before January 1, 2012 with 20 or more years of credited service under the System may enter into the DROP program with his employer. Under the DROP program, the member must voluntarily and irrevocably elect to enter into the program with his employer for a period of up to 60 months. During the DROP period, the member remains in the employ of the employer as a full-time paid firefighter or full-time paid certified Peace officer but no member or employer contributions are made to the System, therefore no additional years of credited service are accrued on the member's behalf. The member's monthly pension is calculated based upon the years of credited service and average monthly compensation at the beginning of the DROP period. This monthly pension amount is credited to a DROP participation account with interest credited monthly to the account. The interest rate credited to the DROP account is 8.25% for the fiscal year beginning July 1, 2010, 8.0% for the fiscal year beginning July 1, 2011 and 7.85% for the fiscal years beginning July 1, 2012, July 1, 2013 and July 1, 2014.

At the end of the DROP period or prior to that time if the member terminates employment, the monies in the DROP participation account will be either paid to the member in a lump-sum amount or paid in a lump-sum distribution to an eligible retirement plan or individual retirement account. The member will then begin receiving the monthly pension amount directly from the System in the same amount as was being credited to the DROP participation account.

For members with less than 20 years of credited service on January 1, 2012 the monthly pension amount is credited to a DROP participation account with interest calculated as the average return on the actuarial value of assets, with a minimum of 2% and maximum equal to the actuarial assumed rate. The interest credited to the DROP account is 4.40% for the fiscal year beginning July 1, 2012, 3.20% for the fiscal year that starts July 1, 2013 and 3.40% for the fiscal year that starts July 1, 2014.

For members with less than 20 years of credited service on January 1, 2012, during the DROP period, the member remains in the employ of the employer as a full-time paid Firefighter or full-time paid certified Peace Officer and refundable member contributions are made to the System.

A member hired on or after January 1, 2012 may NOT enter into the DROP.

Reverse DROP: Expired effective July 1, 2010.

Employer Contributions: Percent of payroll normal cost plus 30-year (22 years remaining as of June 30, 2014) amortization of unfunded actuarial accrued liability (20-year amortization for credit). The statutory minimum is 8% of payroll (5% of payroll if the actual employer contribution rate is less than 5% for the 2006/2007 fiscal year). Employer will contribute to the system when members return to work.

SUMMARY OF PLAN PROVISIONS VALUED AND/OR CONSIDERED

Member Contributions: Member contribution rates are shown in the schedule below. Additional member contributions DO NOT reduce the employer contribution; this means there is a “maintenance of effort” provision.

- FY 2010-2011 – 7.65%
- FY 2011-2012 – 8.65%
- FY 2012-2013 – 9.55%
- FY 2013-2014 – 10.35%
- FY 2014-2015 – 11.05%
- FY 2015-2016 and after: the lesser of 11.65%; or 33.3% of the sum of the member’s contribution rate from the preceding fiscal year plus the aggregate computed employer contribution rate; subject to a minimum employee contribution rate of 7.65%
- The result for FY 2015-2016 is 11.65%.

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 A

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.

Please note that Employer Reporting Information under GASB Statement No. 27 is being replaced by GASB Statement No. 68. In future years, Employers will receive a separate report for accounting disclosures under GASB Statement No. 68.

GASB STATEMENT NO. 27 SUPPLEMENTARY INFORMATION
SCHEDULE OF FUNDING PROGRESS
(EXCLUDING HEALTH INSURANCE SUBSIDY BEGINNING
JUNE 30, 2008)

Year Ended June 30	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) Entry Age (b)	Unfunded AAL (UAAL) (b)-(a)	Funded Ratio (a)/(b)	Covered Payroll (c)	UAAL as a Percent of Covered Payroll [(b)-(a)]/(c)
2003	\$18,500,014	\$ 19,967,900	\$ 1,467,886	92.6 %	\$ 2,727,989	53.8 %
2004	18,403,108	22,002,449	3,599,341	83.6 %	2,922,346	123.2 %
2005	18,547,038	24,917,704	6,370,666	74.4 %	3,165,228	201.3 %
2006	18,334,323	27,586,727	9,252,404	66.5 %	3,474,512	266.3 %
2007	18,277,316	30,982,052	12,704,736	59.0 %	3,709,276	342.5 %
2008	17,937,835	30,883,588	12,945,753	58.1 %	4,320,143	299.7 %
2009	18,741,981	31,054,176	12,312,195	60.4 %	4,080,036	301.8 %
2010	19,118,127	32,796,075	13,677,948	58.3 %	4,001,892	341.8 %
2011	19,864,483	36,064,123	16,199,640	55.1 %	4,099,794	395.1 %
2012	19,247,445	39,296,872	20,049,427	49.0 %	3,636,198	551.4 %
2013	19,144,554	44,966,549	25,821,995	42.6 %	3,252,687	793.9 %
2014	16,724,687	52,497,781	35,773,094	31.9 %	3,581,592	998.8 %

Results before 2009 were calculated by the prior actuary.

**GASB STATEMENT NO. 27 SUPPLEMENTARY INFORMATION
SCHEDULE OF EMPLOYER CONTRIBUTIONS**

Fiscal Year Ended June 30	Annual Required Contribution
2003	\$ 152,262
2004	273,701
2005	433,037
2006	389,932
2007	690,476
2008	927,617
2009	1,138,302
2010	1,187,079
2011	1,167,084 (est.)
2012	1,255,641 (est.)
2013	1,461,775 (est.)
2014	1,680,133 (est.)
2015	2,056,972 (est.)
2016*	2,885,631 (est.)

** This is the estimated Annual Required Contribution before the phase-in plan.*

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 the 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. 27 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, 2014
Actuarial cost method	Entry Age Normal
Amortization method	Level percent-of-pay closed
Remaining amortization period	22 years for underfunded 20 years for overfunded
Asset valuation method	7-year smoothed market 80%/120% market
Actuarial assumptions:	
Investment rate of return	7.85%
Projected salary increases	4.0% - 8.0%
Payroll growth	4.0%
Permanent Benefit Increases	Members Retired on or before July 1, 2011: 2% compounded on average. Members Retired on or after August 1, 2011: 0.5% compounded on average. Since all current retirees receive the same dollar increase amount, approximation techniques were used to develop the assumed PBI for each member.

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. 27.

SCHEDULE OF FUNDING PROGRESS

Valuation Date June 30	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio (a/b)	Annual Covered Payroll (c)	UAAL as a % of Covered Payroll ((b-a)/c)
2006	\$0	\$894,902	\$894,902	0.00%	\$ 3,474,512	25.76%
2007	0	902,019	902,019	0.00	3,709,276	24.32%
2008	0	900,425	900,425	0.00	4,320,143	20.84%
2009	0	731,571	731,571	0.00	4,080,036	17.93%
2010	0	793,901	793,901	0.00	4,001,892	19.84%
2011	0	945,485	945,485	0.00	4,099,794	23.06%
2012	0	850,856	850,856	0.00	3,636,198	23.40%
2013	0	797,603	797,603	0.00	3,252,687	24.52%
2014	1,083,850	856,616	(227,234)	126.53	3,581,592	0.00%

ANNUAL REQUIRED CONTRIBUTION

Valuation Date June 30	Fiscal Year Ended June 30	Normal Cost (a)	Actuarial Accrued Liability (b)	Total (a+b)	Dollar Amount
2006	2008	0.44%	1.19%	1.63%	\$70,418
2007	2009	0.54	1.15	1.69	73,010
2008	2010	0.45	1.01	1.46	63,074
2009	2011	0.53	0.87	1.40	63,577
2010	2012	0.53	1.00	1.53	68,149
2011	2013	0.34	1.24	1.58	71,416
2012	2014	0.32	1.24	1.56	62,539
2013	2015	0.34	1.41	1.75	62,160
2014	2016	0.33	(0.33)	0.00	0

Fiscal Years prior to 2011 were provided by the prior actuary.

Health Insurance Subsidy Payment Reported for FY2014: \$38,039