

September 10, 2002

The Fund Manager  
Arizona Public Safety Personnel Retirement System  
Phoenix, Arizona

This report contains the consolidated results of the June 30, 2002 actuarial valuation of the Arizona Public Safety Personnel Retirement System. The valuations determine the 2003-2004 Fiscal Year employer contribution requirements and the June 30, 2002 actuarial present values associated with each unit's participation.


Participant data was provided by your Administrator. This data has been reviewed for reasonableness, but no attempt has been made to audit such information. Financial information was taken from the June 30, 2002 information submitted by your Administrator.

The valuations were made in accordance with generally accepted actuarial principles and practices. The valuation assumptions are the same as those used for the June 30, 2001 valuation. The actuarial assumptions used in the valuations are reasonably related to the past experience of the System and represent reasonable expectations of long-term future experience under the System.

Respectfully submitted,



Sandra W. Rodwan



Joseph A. Nichols

Members, American Academy of Actuaries

***Arizona Public Safety Personnel  
Retirement System***

*Actuarial Valuation as of June 30, 2002*

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**Enrolled Actuaries and Consultants**



***Section One:***

***Valuation Summary***



Enrolled Actuaries and Consultants

## **Purpose of Valuation**

The purpose of the annual actuarial valuation of the Arizona Public Safety Personnel Retirement System as of June 30, 2002 is to:

- ❖ Compute the liabilities associated with benefits likely to be paid on behalf of current retired and active members. This information is contained on page 9.
- ❖ Compare accrued assets with accrued liabilities to assess the funded condition. This information is contained on pages 6, 7 and 15 through 19.
- ❖ Compute the employers' recommended contribution rates for the Fiscal Year beginning July 1, 2003. This information is contained on pages 4 and 10 through 14.

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

## **Liabilities and Funded Condition of Retirement System**

Accrued liabilities of the Retirement System as of June 30, 2002, were computed to be \$4,144,211,267. The funding value of accrued assets was \$4,684,386,470. The ratio of the funding value of accrued assets to accrued liabilities was 113.0%.

## **Funding Value of Assets**

A smoothed market value of assets was used for the June 30, 2002 valuation. This method, which spreads the difference between actual and expected investment return over four years, is unchanged from prior years.

## **Aggregate Computed Contribution Rate**

Contribution rates are computed individually for each participating unit. In the aggregate, the normal cost contribution rate was computed to be 19.26% of member payroll. Deducting member contributions of 7.65% of payroll resulted in an aggregate employer normal cost of 11.61% of payroll.

In the aggregate, the excess of accrued assets over accrued liabilities produced a temporary 20-year amortization credit of 3.95% of payroll.

The aggregate net employer contribution for FY 2003/2004 was therefore computed to be 7.66% of payroll. After the application of the 2.00% minimum contribution required for each unit by Statute, the aggregate net employer contribution is 7.70% of Payroll.

## Retirement System Experience

Overall experience of the Retirement System during the year ended June 30, 2002 was significantly less favorable than assumed. Investment income was the primary source of unfavorable experience.

## Benefit Provision Changes

The following benefit provision changes were effective for this valuation pursuant to legislation enacted in 2002.

- ❖ Post-retirement surviving spouse pensions were increased to 80% of the member's pension from 75%.
- ❖ Duty death spouse pensions were increased to 100% of the member's average salary from 50%.
- ❖ A permanent tax equity increase in pensions of 2.00% is effective for members employed before September 15, 1989 and who retire on or after November 1, 2001.
- ❖ The Deferred Retirement Option Program (DROP) was made permanent.

## Assumption and Method Changes

There were no changes in assumptions or methods used for the valuation.

## Participant Data

	<u>6/30/2002</u>	<u>6/30/2001</u>
Active Members	15,557	15,473
Active Member Payroll	\$854,248,911	\$826,739,742
Retirees and Beneficiaries	5,989	5,782
DROP participants	645	
Annual Pensions	\$215,378,952	\$170,281,580

## Financial Data

	<u>6/30/2002</u>	<u>6/30/2001</u>
Smoothed Valuation Assets	\$5,186,843,116*	\$5,324,839,502*
Market Value of Assets	\$3,696,318,235	\$4,421,967,619

\* The net smoothed value of assets used for the valuation after deducting the Future Benefit Increase Reserve was \$4,684,386,470 in 2002 and \$4,661,941,486 in 2001.

## Comments, Recommendations and Conclusion

**Comment 1:** This report contains the consolidated results of the individual actuarial valuations of the 194 units in the Arizona Public Safety Personnel Retirement System as of June 30, 2002. The aggregate results are indicative of the overall condition of the Retirement System. The condition of each unit, however, is dependent upon its particular experience and characteristics.

Of the 194 units, 143 had accrued valuation assets in excess of actuarial accrued liabilities. The amount of this excess was amortized over a period of 20 years and applied as a temporary credit to the employer normal cost contribution rate. In the remaining 51 units, unfunded actuarial accrued liabilities were amortized over a 20 year period and added to the normal cost to produce the total employer contribution rate.

**Comment 2:** The overall experience of the Retirement System was significantly less favorable than expected based upon the long-term assumptions. The rate of investment return was the primary source of negative experience. The increases in the computed employer contribution rates and the decrease in the funded ratio reflect this experience and the effect of the benefit provision changes.

**Comment 3:** The funding of the Arizona Public Safety Personnel Retirement System continues to be ahead of schedule, largely as a result of favorable investment returns in past years. It is important to note that the funding credits are not expected to continue indefinitely and may vary from year to year. ***For long-term budgeting, the employer normal cost should be viewed as the minimum annual cost.*** In the aggregate, the employer normal cost has been computed to be 11.61% of payroll.

**Comment 4:** The smoothed market value used for the valuation spreads differences between the assumed and actual investment return over 4 years. In the absence of actual investment return well in excess of the assumed rate or significant favorable experience in other risk areas, the employer contribution rates will continue to increase over the short term.

**Conclusion:** The accrued overall actuarial condition of the Retirement System continues to be excellent.





*Section Two:*

***Actuarial Calculations –  
Funding***



Enrolled Actuaries and Consultants

**Contribution Requirements – 2003/2004 Fiscal Year**

**Member:** 7.65% of covered compensation

**Employer:** The aggregate computed contribution rate before application of the statutory minimum was 7.66% of covered compensation, consisting of 11.61% for normal cost, (3.95)% for amortization of unfunded actuarial accrued liability\*.

**Components of Computed Normal Cost**

	<b>Percents of Covered Compensation</b>
Normal cost requirement	
Service pensions	16.30%
Disability pensions	0.89
Survivors of active members	1.16
Refunds of members' accumulated contributions	0.26
Health insurance	<u>0.65</u>
Total normal cost requirement	19.26%
Less member contribution	<u>7.65</u>
Employer normal cost requirement	11.61%

*\*In the aggregate, actuarial accrued liability, \$4,144,211,267, was exceeded by the funding value of accrued assets, \$4,684,386,470. Of the 194 units, 143 had assets in excess of accrued liabilities and 51 had unfunded accrued liabilities. The excess or the unfunded was amortized over 20 years and applied as a credit or an amortization payment, respectively.*

*These contribution rates are prior to the minimum 2.00% rate established for each unit by the State Legislature beginning with the 2001/2002 fiscal year. The total aggregate computed contribution after application of the minimum is 7.70% of payroll.*

In past years, the experience of the Retirement System was significantly more favorable than expected based on long-term assumptions. This favorable experience has resulted in the credit which partially offsets the normal cost which otherwise would be payable. The normal cost should be viewed as the long-term ongoing cost, and should be seen as the minimum contribution requirement over the long term.

**Computed Employer Contribution Requirements**

<b>Valuation Date:</b> <b><u>June 30</u></b>	<b><u>Normal Cost</u></b>	<b><u>Unfunded Actuarial Accrued Liability</u></b>	<b><u>Total</u></b>
1977	11.37%	4.18%	15.55%
1980	9.15	2.71	11.86
1985	7.67	0.00	7.67
1990	8.26	(0.16)	8.10
1995	9.96	(1.85)	8.11
1996	9.94	(3.58)	6.36
1997	9.92	(4.10)	5.82
1998	9.76	(4.47)	5.29
1999	10.89	(5.68)	5.21
2000*	10.86	(6.65)	4.21
2001*	11.21	(7.46)	3.75
<b>2002*</b>	<b>11.61</b>	<b>(3.95)</b>	<b>7.66</b>

\* *Computed contribution rates are before application of the 2.00% minimum employer contribution for each participating unit. Minimum rate established by State Legislature in 2000 for fiscal years beginning 2001/2002.*

**Actuarial Accrued Liability**

The total contribution is made up of two parts, the normal cost and the amortization of the unfunded actuarial accrued liability. For 143 of the participating units, the valuation assets exceed the actuarial accrued liability so they have a credit against the normal cost. The remaining 51 units have a contribution greater than the normal cost to pay for a portion of the past service liability. The Legislature has established a policy of amortizing, or funding, the unfunded actuarial accrued liability over an open period of 20 years.

The aggregate valuation assets exceed the actuarial accrued liability by \$540,175,203.

	<b>June 30, 2002</b>
Actuarial Accrued Liability	
Retired members and survivors	\$1,905,915,966
Former members with vested benefits	4,537,528
Active members*	<u>2,233,757,773</u>
Total	\$4,144,211,267
Valuation Assets**	\$4,684,386,470
Unfunded Actuarial Accrued Liability	\$(540,175,203)

\* This amount includes liability for DROP participants of \$370,243,515.

\*\* This amount excludes the \$502,456,646 in investment income reserve held for future pension increases pursuant to state statute.

## History of Assets and Accrued Liabilities

<b>Valuation Date <u>June 30</u></b>	<b>Valuation <u>Assets</u></b>	<b>Actuarial Accrued <u>Liabilities</u></b>	<b>Funded <u>Ratio</u></b>	<b>Unfunded Actuarial Accrued <u>Liabilities</u></b>	<b>Financing <u>Period</u></b>
1977	\$ 198,449	\$ 252,662	78.5%	\$ 54,213	40 yrs.
1980	323,768	371,873	87.1	48,105	37
1985	693,159	706,779	98.1	13,620	32
1990	1,297,562	1,322,781	98.1	25,219	27
1995	2,181,351	2,117,732	103.0	-	22
1996	2,487,953	2,328,276	106.9	-	21
1997	2,915,173	2,533,435	115.1	-	20
1998	3,192,627	2,743,998	116.3	-	20
1999	3,709,251	3,082,202	120.3	-	20
2000	4,260,168	3,415,157	124.7	-	20
2001	4,661,941	3,674,758	126.9	-	20
<b>2002</b>	<b>4,684,386</b>	<b>4,144,211</b>	<b>113.0</b>	<b>-</b>	<b>20</b>

*Dollar amounts in \$000.*

**Results shown throughout this report for years prior to 2001 were prepared by the previous actuarial firm.**

**Aggregate Gain/Loss**

	<b>Year Ended June 30, 2002</b>
(1) UAAL <sup>a</sup> at start of year	\$(987,183)
(2) Normal cost	155,923
(3) Funding method contributions	114,470
(4) Interest accrual	(86,981)
(5) Expected UAAL before changes	(1,032,711)
(6) Change from amendments	63,700
(7) Change from assumption revision	None
(8) Expected UAAL after changes	(969,011)
(9) Actual UAAL	(540,175)
(10) Gain(Loss)	(428,836)
(11) Percent of AAL <sup>b</sup>	11.7%

<sup>a</sup> Unfunded Actuarial Accrued Liability

<sup>b</sup> Actuarial Accrued Liability at beginning of year

Dollar amounts in \$000.

**Aggregate Actuarial Balance Sheet June 30, 2002****Actuarial Assets**

Accrued Assets		
Member accumulated contributions	\$ 495,565,136	
Employer and benefit payment reserves	4,044,990,321	
Funding value adjustment	646,287,659	
Total accrued assets*		\$5,186,843,116
Prospective assets (computed value)		
Member contributions	765,895,161	
Employer normal costs	1,030,593,617	
Employer unfunded actuarial accrued liability	(540,175,203)	
Total prospective assets		1,256,313,575
Total Actuarial Assets		<u>\$ 6,443,156,691</u>

\* Includes \$502,456,646 reserve for payment of ad-hoc pension increases. The net funding value of assets is \$4,684,386,470.

**Actuarial Present Values (Liability)**

Pensions in payment status		
Service pensions	\$1,416,971,533	
Disability pensions	243,957,326	
Survivor pensions	137,550,809	
Health insurance	107,436,298	
Total benefit values		\$1,905,915,966
Prospective pension payments (future retirements)		3,896,772,408
Prospective health insurance payments (future retirements)		127,850,105
Prospective refunds of member contributions		10,161,566
Reserve for future pension increases		<u>502,456,646</u>
Total Actuarial Present Values (Liability)		<u>\$6,443,156,691</u>

**Employer Contribution Requirements**  
**2003/2004 Fiscal Year**  
**Expressed as Percents of Covered Compensation**

<u>Employer</u>	<u>Normal Cost</u>	<u>Amort. Of Unf. Act. Accr. Liability*</u>	<u>Total Computed Emp. Contrib. Requirements</u>	<u>Total Required Emp. Contrib. Requirements</u>
Apache County Sheriffs	12.24%	3.22%	15.46%	15.46%
Apache Junction Fire District	10.14	0.83	10.97	10.97
Apache Junction Police	11.07	-1.74	9.33	9.33
Arizona Attorney General Investigators	10.57	-3.11	7.46	7.46
Arizona Department of Liquor Licenses	13.39	-6.00	7.39	7.39
Arizona State Capitol Police	11.69	-2.69	9.00	9.00
Arizona State Parks	11.34	1.97	13.31	13.31
ASU Police	12.55	-9.19	3.36	3.36
Avondale Fire Fighters	8.84	-1.06	7.78	7.78
Avondale Police	10.24	1.35	11.59	11.59
Avra Valley Fire District	11.14	-7.16	3.98	3.98
Benson Police	11.87	-3.77	8.10	8.10
Bisbee Fire Fighters	10.93	5.46	16.39	16.39
Bisbee Police	10.39	8.97	19.36	19.36
Buckeye Fire Fighters	10.26	-1.00	9.26	9.26
Buckeye Police	10.12	0.60	10.72	10.72
Buckskin Fire Fighters	10.18	-2.78	7.40	7.40
Bullhead City Fire Fighters	10.46	-5.58	4.88	4.88
Bullhead City Police	10.54	-1.74	8.80	8.80
Camp Verde Fire District	11.20	4.12	15.32	15.32
Camp Verde Marshals	10.64	-1.94	8.70	8.70
Casa Grande Fire Fighters	10.38	-0.42	9.96	9.96
Casa Grande Police	10.98	0.09	11.07	11.07
Central Yavapai Fire Fighters	9.86	-1.21	8.65	8.65
Chandler Fire Fighters	10.03	-3.26	6.77	6.77
Chandler Police	9.95	-0.92	9.03	9.03
Chino Valley Fire District	10.16	-1.28	8.88	8.88
Chino Valley Police	12.21	-3.56	8.65	8.65
Clarksdale Police	11.28	-3.25	8.03	8.03
Clifton Fire Fighters	13.18	-13.18	0.00	2.00
Clifton Police	8.71	-8.71	0.00	2.00
Cochise County Sheriffs	11.79	2.35	14.14	14.14
Coconino County Sheriffs	11.08	2.18	13.26	13.26
Coolidge Police	11.41	-2.23	9.18	9.18
Cottonwood Fire Fighters	11.42	-5.74	5.68	5.68
Cottonwood Police	12.37	3.57	15.94	15.94
D.E.M.A.	11.29	-3.15	8.14	8.14



<u>Employer</u>	<u>Normal Cost</u>	<u>Amort. Of</u>		
		<u>Unf. Act. Accr. Liability*</u>	<u>Total Computed Emp. Contrib. Requirements</u>	<u>Total Required Emp. Contrib. Requirements</u>
Daisy Mountain Fire District	9.89	-0.83	9.06	9.06
Department of Public Safety	12.78%	-9.47%	3.31%	3.31%
Diamond Star Fire Fighters	9.42	4.12	13.54	13.54
Douglas Fire Fighters	13.74	0.50	14.24	14.24
Douglas Police	11.30	-4.36	6.94	6.94
Drexel Heights Fire Fighters	11.10	-5.23	5.87	5.87
Eagar Police	11.02	-0.85	10.17	10.17
El Mirage Fire Fighters	10.36	-2.37	7.99	7.99
El Mirage Police	10.18	-1.15	9.03	9.03
Eloy Police	11.29	-3.02	8.27	8.27
Flagstaff Fire Fighters	13.17	-8.45	4.72	4.72
Flagstaff Police	10.75	-1.42	9.33	9.33
Florence Fire Fighters	11.76	-2.70	9.06	9.06
Florence Police	10.40	-9.42	0.98	2.00
Fort McDowell Tribal Fire Department	11.07	-4.02	7.05	7.05
Fort McDowell Tribal Police Dept.	8.58	3.20	11.78	11.78
Fort Mohave Mesa Fire District	10.70	-3.29	7.41	7.41
Fountain Hills Marshals	10.71	-0.39	10.32	10.32
Fredonia Marshals	9.66	-0.46	9.20	9.20
Fry Fire Fighters	9.18	-2.28	6.90	6.90
Game & Fish Department	13.06	3.21	16.27	16.27
Gila County Sheriffs	12.47	-2.10	10.37	10.37
Gila River Fire Fighters	9.54	0.91	10.45	10.45
Gila River Police	9.98	0.16	10.14	10.14
Gilbert Fire Fighters	9.87	-1.93	7.94	7.94
Gilbert Police	9.93	-0.11	9.82	9.82
Glendale Fire Fighters	12.47	-6.71	5.76	5.76
Glendale Police	10.33	0.78	11.11	11.11
Globe Fire Fighters	10.91	-4.71	6.20	6.20
Globe Police	11.31	3.21	14.52	14.52
Golden Valley Fire District	10.81	-5.68	5.13	5.13
Golder Ranch Fire District	10.61	-1.16	9.45	9.45
Goodyear Fire Fighters	9.34	-1.90	7.44	7.44
Goodyear Police	10.14	-0.83	9.31	9.31
Graham County Sheriffs	11.09	0.84	11.93	11.93
Green Valley Fire District	9.42	1.97	11.39	11.39
Greenlee County Attorney Investigators	0.00	0.00	0.00	2.00
Greenlee County Sheriffs	12.32	-7.08	5.24	5.24
Guadalupe Fire Fighters	9.81	-0.46	9.35	9.35
Guadalupe Police	0.00	0.00	0.00	2.00
Hayden Police	9.97	1.52	11.49	11.49
Heber-Overgaard Fire Fighters	10.42	-0.77	9.65	9.65

<u>Employer</u>	<u>Normal Cost</u>	<u>Amort. Of</u>		
		<u>Unf. Act. Accr. Liability*</u>	<u>Total Computed Emp. Contrib. Requirements</u>	<u>Total Required Emp. Contrib. Requirements</u>
Highlands Fire District	10.29	6.12	16.41	16.41
Holbrook Police	10.99%	0.01%	11.00%	11.00%
Hualapai Valley Fire Fighters	9.99	-2.57	7.42	7.42
Kearny Police	10.28	4.36	14.64	14.64
Kingman Fire Fighters	11.13	-0.94	10.19	10.19
Kingman Police	11.27	-0.92	10.35	10.35
La Paz County Attorney Investigators	16.75	-10.27	6.48	6.48
La Paz County Sheriffs	10.97	0.68	11.65	11.65
Lake Havasu City Fire Fighters	11.55	-7.28	4.27	4.27
Lake Havasu City Police	10.41	-1.93	8.48	8.48
Lakeside Fire Fighters	10.59	-0.17	10.42	10.42
Mammoth Police	11.55	7.43	18.98	18.98
Marana Police	12.24	-4.29	7.95	7.95
Maricopa County Attorney Investigators	12.06	-3.86	8.20	8.20
Maricopa County Park Rangers	12.19	0.16	12.35	12.35
Maricopa County Sheriffs	12.42	-4.55	7.87	7.87
Mayer Fire District	10.28	-0.52	9.76	9.76
Mesa Fire Fighters	12.07	-5.31	6.76	6.76
Mesa Police	11.67	-2.70	8.97	8.97
Miami Fire Fighters	0.00	0.00	0.00	2.00
Miami Police	11.39	-1.56	9.83	9.83
Mohave County Sheriffs	11.41	-5.94	5.47	5.47
Mohave Valley Fire Fighters	11.30	-8.07	3.23	3.23
Montezuma/Rimrock Fire Fighters	14.17	-4.93	9.24	9.24
NAU Police	12.71	-8.15	4.56	4.56
Navajo County Attorney Investigators	15.44	-15.43	0.01	2.00
Navajo County Sheriffs	10.74	-3.43	7.31	7.31
Nogales Fire Fighters	11.17	3.52	14.69	14.69
Nogales Police	11.24	-2.10	9.14	9.14
Northwest Fire District	10.19	-1.35	8.84	8.84
Oro Valley Police	10.56	-0.44	10.12	10.12
Page Fire Fighters	11.48	8.89	20.37	20.37
Page Police	10.83	-6.90	3.93	3.93
Paradise Valley Police	10.09	0.90	10.99	10.99
Parker Police	11.81	-8.23	3.58	3.58
Patagonia Marshals	12.52	-6.04	6.48	6.48
Payson Fire Fighters	10.64	-3.90	6.74	6.74
Payson Police	11.99	2.77	14.76	14.76
Peoria Fire Fighters	10.19	-3.76	6.43	6.43
Peoria Police	10.03	-0.25	9.78	9.78
Phoenix Fire Fighters	12.33	-5.74	6.59	6.59
Phoenix Police	11.73	-5.30	6.43	6.43

<u>Employer</u>	<u>Normal Cost</u>	<u>Amort. Of Unf. Act. Accr. Liability*</u>	<u>Total Computed Emp. Contrib. Requirements</u>	<u>Total Required Emp. Contrib. Requirements</u>
Picture Rocks Fire Fighters	10.70	-5.95	4.75	4.75
Pima Community College Police	10.97%	-2.78%	8.19%	8.19%
Pima County Attorney Investigators	10.98	-4.88	6.10	6.10
Pima County Sheriffs	11.92	-4.21	7.71	7.71
Pima Police	11.10	-6.05	5.05	5.05
Pinal County Sheriffs	13.14	-4.62	8.52	8.52
Pine-Strawberry Fire Fighters	12.94	0.47	13.41	13.41
Pinetop Fire Fighters	10.79	2.25	13.04	13.04
Pinetop-Lakeside Police	11.85	0.92	12.77	12.77
Prescott Fire Fighters	10.91	-2.61	8.30	8.30
Prescott Police	11.28	4.46	15.74	15.74
Prescott Valley Police	10.81	-1.35	9.46	9.46
Quartzsite Marshals	10.45	-0.76	9.69	9.69
Rio Rico Fire District	10.77	1.72	12.49	12.49
Safford Police	11.46	3.88	15.34	15.34
Sahuarita Police	11.64	-2.19	9.45	9.45
Salt River Pima-Maricopa Fire Fighters	10.13	1.84	11.97	11.97
Salt River Pima-Maricopa Police	9.56	3.69	13.25	13.25
San Luis Fire Fighters	10.66	-0.90	9.76	9.76
San Luis Police	10.58	-0.73	9.85	9.85
Santa Cruz County Sheriffs	10.57	3.64	14.21	14.21
Scottsdale Police	11.89	-4.12	7.77	7.77
Sedona Fire District	10.72	-1.01	9.71	9.71
Sedona Police	11.22	-3.67	7.55	7.55
Show Low Fire Fighters	10.86	-1.76	9.10	9.10
Show Low Police	10.82	-2.18	8.64	8.64
Sierra Vista Fire Fighters	12.37	-12.37	0.00	2.00
Sierra Vista Police	10.42	-1.29	9.13	9.13
Snowflake Police	11.02	3.77	14.79	14.79
Somerton Fire Fighters	10.77	1.69	12.46	12.46
Somerton Police	10.26	3.18	13.44	13.44
South Tucson Fire Fighters	10.66	-3.38	7.28	7.28
South Tucson Police	10.61	11.34	21.95	21.95
Springerville Police	10.75	-4.66	6.09	6.09
St. John's Police	11.84	-3.32	8.52	8.52
Summit Fire District	10.48	-0.03	10.45	10.45
Sun City Fire Fighters	9.99	1.70	11.69	11.69
Sun City West Fire District	9.37	-1.35	8.02	8.02
Sun Lakes Fire District	9.51	-2.38	7.13	7.13
Superior Police	13.30	-6.56	6.74	6.74
Surprise Fire Fighters	10.54	-3.08	7.46	7.46
Surprise Police	10.53	-1.52	9.01	9.01

<u>Employer</u>	<u>Normal Cost</u>	<u>Amort. Of Unf. Act. Accr. Liability*</u>	<u>Total Computed Emp. Contrib. Requirements</u>	<u>Total Required Emp. Contrib. Requirements</u>
Taylor	0.00	0.00	0.00	0.00
Tempe Fire Fighters	12.50%	-7.34%	5.16%	5.16%
Tempe Police	9.85	-0.12	9.73	9.73
Thatcher Police	13.74	-7.21	6.53	6.53
Three Points Fire District	12.49	-2.38	10.11	10.11
Tolleson Fire Fighters	10.51	-2.38	8.13	8.13
Tolleson Police	11.61	-2.59	9.02	9.02
Tombstone Marshals	16.34	-7.35	8.99	8.99
Tri-City Fire District	12.21	-1.50	10.71	10.71
Tubac Fire District	11.60	-2.55	9.05	9.05
Tucson Airport Authority Fire Fighters	12.30	-2.26	10.04	10.04
Tucson Airport Authority Police	10.27	5.13	15.40	15.40
Tucson Estates Fire Fighters	0.00	0.00	0.00	2.00
Tucson Fire Fighters	12.96	-6.32	6.64	6.64
Tucson Police	12.15	-4.96	7.19	7.19
U of A Police	10.59	-1.79	8.80	8.80
Verde Valley Fire District	12.52	-5.68	6.84	6.84
Wellton Police	10.63	-3.21	7.42	7.42
Wickenburg Police	12.12	6.99	19.11	19.11
Willcox Police	14.06	-0.81	13.25	13.25
Williams Police	10.47	-6.71	3.76	3.76
Winslow Fire Fighters	11.34	-11.34	0.00	2.00
Winslow Police	10.59	-6.47	4.12	4.12
Yavapai County Attorney Investigators	10.87	2.36	13.23	13.23
Yavapai County Sheriffs	10.73	2.42	13.15	13.15
Youngtown Police	13.10	-6.29	6.81	6.81
Yuma County Sheriffs	12.18	-2.07	10.11	10.11
Yuma Fire Fighters	13.04	-2.27	10.77	10.77
Yuma Police	12.61	-7.21	5.40	5.40
<b>Totals</b>	<b>11.61%</b>	<b>(3.95)%</b>	<b>7.66%</b>	<b>7.70%</b>

\* Twenty years from July 1, 2002.

## Actuarial Accrued Liability – Valuation Assets – Amortization Payment

<u>Employer</u>	<u>Actuarial Accrued Liability</u>	<u>Members</u>	<u>Employers</u>	<u>Emp. Unf Act. Acc. Liability</u>	<u>Amortization Payment*</u>
Apache County Sheriffs	\$3,998,022	\$564,112	\$2,753,412	\$680,498	3.22%
Apache Junction Fire District	6,498,490	1,349,383	4,662,225	486,882	0.83
Apache Junction Police	8,476,313	1,690,678	7,462,054	-676,419	0.00
Arizona Attorney General Investigators	7,515,923	1,247,610	6,952,736	-684,423	0.00
Arizona Department of Liquor Licenses	1,654,482	576,607	1,954,320	-876,445	0.00
Arizona State Capitol Police	1,345,671	386,925	1,333,424	-374,678	0.00
Arizona State Parks	4,375,622	1,275,926	2,599,242	500,454	1.97
ASU Police	9,620,665	1,167,661	11,778,975	-3,325,971	0.00
Avondale Fire Fighters	2,707,219	676,379	2,360,801	-329,961	0.00
Avondale Police	5,390,454	1,112,381	3,561,118	716,955	1.35
Avra Valley Fire District	333,209	106,326	635,191	-408,308	0.00
Benson Police	1,290,066	186,275	1,365,435	-261,644	0.00
Bisbee Fire Fighters	4,665,678	396,574	3,596,015	673,089	5.46
Bisbee Police	3,474,121	382,737	2,297,200	794,184	8.97
Buckeye Fire Fighters	39,471	40,883	92,811	-94,223	0.00
Buckeye Police	1,945,201	339,891	1,512,239	93,071	0.60
Buckskin Fire Fighters	1,809,310	200,050	1,774,988	-165,728	0.00
Bullhead City Fire Fighters	9,199,258	1,361,957	10,654,943	-2,817,642	0.00
Bullhead City Police	10,028,658	2,201,156	8,827,951	-1,000,449	0.00
Camp Verde Fire District	606,255	44,939	164,563	396,753	4.12
Camp Verde Marshals	1,140,723	216,166	1,114,072	-189,515	0.00
Casa Grande Fire Fighters	7,266,996	623,277	6,749,201	-105,482	0.00
Casa Grande Police	12,301,470	1,709,437	10,547,475	44,558	0.09
Central Yavapai Fire Fighters	9,551,693	1,782,058	8,382,605	-612,970	0.00
Chandler Fire Fighters	25,675,248	5,138,767	25,361,659	-4,825,178	0.00
Chandler Police	39,896,296	8,051,742	34,307,671	-2,463,117	0.00
Chino Valley Fire District	1,389,724	352,345	1,192,065	-154,686	0.00
Chino Valley Police	1,217,362	340,683	1,265,053	-388,374	0.00
Clarksdale Police	723,398	164,318	701,509	-142,429	0.00
Clifton Fire Fighters	277,980	43,729	488,631	-254,380	0.00
Clifton Police	147,272	44,902	422,606	-320,236	0.00
Cochise County Sheriffs	14,521,441	1,494,659	12,005,889	1,020,893	2.35
Coconino County Sheriffs	14,329,961	1,670,262	11,730,984	928,715	2.18
Coolidge Police	2,509,868	546,757	2,374,631	-411,520	0.00
Cottonwood Fire Fighters	731,724	233,556	869,676	-371,508	0.00
Cottonwood Police	3,009,163	490,639	2,036,653	481,871	3.57
D.E.M.A.	4,129,837	847,857	3,833,366	-551,386	0.00
Daisy Mountain Fire District	1,329,356	433,426	1,102,705	-206,775	0.00
Department of Public Safety	445,962,618	21,135,014	504,830,988	-80,003,384	0.00
Diamond Star Fire Fighters	203,335	18,978	58,236	126,121	4.12
Douglas Fire Fighters	6,223,211	611,937	5,534,397	76,877	0.50

<b>Employer</b>	<b>Actuarial Accrued Liability</b>	<b>Members</b>	<b>Employers</b>	<b>Emp. Unf Act. Acc. Liability</b>	<b>Amortization Payment*</b>
Douglas Police	\$ 6,033,230	\$ 734,743	\$ 6,182,827	\$ -884,340	0.00%
Drexel Heights Fire Fighters	3,534,319	1,093,437	4,150,168	-1,709,286	0.00
Eagar Police	690,299	135,314	600,810	-45,825	0.00
El Mirage Fire Fighters	585,083	91,874	685,526	-192,317	0.00
El Mirage Police	1,288,282	406,679	1,182,345	-300,742	0.00
Eloy Police	1,758,073	544,060	1,826,323	-612,310	0.00
Flagstaff Fire Fighters	27,957,056	3,734,021	29,554,907	-5,331,872	0.00
Flagstaff Police	22,375,146	2,552,607	20,824,632	-1,002,093	0.00
Florence Fire Fighters	156,522	84,722	219,808	-148,008	0.00
Florence Police	821,849	251,815	1,458,300	-888,266	0.00
Flowing Wells	0	0	74,684	-74,684	0.00
Fort McDowell Tribal Fire Department	127,924	85,751	359,688	-317,515	0.00
Fort McDowell Tribal Police Dept.	628,246	59,725	155,423	413,098	3.20
Fort Mohave Mesa Fire District	2,758,149	653,172	2,748,466	-643,489	0.00
Fountain Hills Marshals	557,666	197,162	394,795	-34,291	0.00
Fredonia Marshals	49,068	0	58,413	-9,345	0.00
Fry Fire Fighters	6,038,799	659,577	5,885,297	-506,075	0.00
Game & Fish Department	49,286,178	4,716,682	41,325,991	3,243,505	3.21
Gila County Sheriffs	5,244,701	793,208	4,909,637	-458,144	0.00
Gila River Fire Fighters	2,199,090	551,487	1,222,516	425,087	0.91
Gila River Police	1,802,027	558,270	1,160,987	82,770	0.16
Gilbert Fire Fighters	4,223,217	1,418,689	4,159,874	-1,355,346	0.00
Gilbert Police	13,764,387	3,075,907	10,819,043	-130,563	0.00
Glendale Fire Fighters	44,743,479	6,870,303	48,043,402	-10,170,226	0.00
Glendale Police	71,892,043	10,140,774	59,606,647	2,144,622	0.78
Globe Fire Fighters	2,688,846	271,918	2,881,050	-464,122	0.00
Globe Police	3,293,592	499,087	2,360,031	434,474	3.21
Golden Valley Fire District	855,443	243,689	1,115,908	-504,154	0.00
Golder Ranch Fire District	3,534,732	908,680	3,073,319	-447,267	0.00
Goodyear Fire Fighters	1,676,967	611,876	1,705,916	-640,825	0.00
Goodyear Police	3,895,803	970,357	3,253,348	-327,902	0.00
Graham County Sheriffs	1,488,462	301,226	1,105,949	81,287	0.84
Green Valley Fire District	2,601,983	136,951	1,888,203	576,829	1.97
Greenlee County Attorney Investigators	0	0	29,158	-29,158	0.00
Greenlee County Sheriffs	1,584,623	318,276	1,733,671	-467,324	0.00
Guadalupe Fire Fighters	314,863	109,348	235,338	-29,823	0.00
Guadalupe Police	0	0	318,061	-318,061	0.00
Hayden Police	142,860	25,851	68,596	48,413	1.52
Heber-Overgaard Fire Fighters	68,244	20,534	79,012	-31,302	0.00
Highlands Fire District	897,022	46,212	186,309	664,501	6.12
Holbrook Police	2,674,632	246,939	2,426,699	994	0.01
Hualapai Valley Fire Fighters	976,143	333,524	1,026,025	-383,406	0.00
Kearny Police	\$ 344,280	\$ 33,429	\$ 215,223	\$ 95,628	4.36%

<b>Employer</b>	<b>Actuarial Accrued Liability</b>	<b>Members</b>	<b>Employers</b>	<b>Emp. Unf Act. Acc. Liability</b>	<b>Amortization Payment*</b>
Kingman Fire Fighters	6,444,031	1,224,381	5,465,925	-246,275	0.00
Kingman Police	7,869,110	993,724	7,166,950	-291,564	0.00
La Paz County Attorney Investigators	51,284	31,219	89,972	-69,907	0.00
La Paz County Sheriffs	5,391,985	700,460	4,550,143	141,382	0.68
Lake Havasu City Fire Fighters	16,119,443	2,412,660	17,158,650	-3,451,867	0.00
Lake Havasu City Police	11,742,345	2,027,321	10,798,703	-1,083,679	0.00
Lakeside Fire Fighters	231,228	62,955	179,955	-11,682	0.00
Laveen Fire District	0	0	48,816	-48,816	0.00
Mammoth Police	201,836	53,626	-19,968	168,178	7.43
Marana Police	3,757,279	1,138,030	4,341,127	-1,721,878	0.00
Maricopa County Attorney Inv.	4,731,965	427,114	4,676,493	-371,642	0.00
Maricopa County Park Rangers	1,563,810	591,521	953,131	19,158	0.16
Maricopa County Sheriffs	155,304,316	17,646,922	158,255,474	-20,598,080	0.00
Mayer Fire District	219,092	50,384	188,512	-19,804	0.00
Mesa Fire Fighters	110,765,627	16,571,687	113,582,366	-19,388,426	0.00
Mesa Police	170,390,053	24,952,568	166,248,377	-20,810,892	0.00
Miami Fire Fighters	235,502	0	372,598	-137,096	0.00
Miami Police	488,606	79,552	455,824	-46,770	0.00
Mohave County Sheriffs	11,473,155	1,751,029	12,606,677	-2,884,551	0.00
Mohave Valley Fire Fighters	988,740	325,439	1,417,822	-754,521	0.00
Montezuma/Rimrock Fire Fighters	84,703	53,441	168,955	-137,693	0.00
NAU Police	3,785,692	453,819	4,327,386	-995,513	0.00
Navajo County Attorney Investigators	78,917	39,970	166,755	-127,808	0.00
Navajo County Sheriffs	6,863,694	877,979	6,849,240	-863,525	0.00
Nogales Fire Fighters	6,433,418	830,087	4,790,207	813,124	3.52
Nogales Police	6,892,895	1,304,186	6,325,428	-736,719	0.00
Northwest Fire District	9,444,307	2,145,755	8,430,526	-1,131,974	0.00
Oro Valley Police	6,327,848	1,628,214	4,937,087	-237,453	0.00
Page Fire Fighters	527,575	12,100	395,335	120,140	8.89
Page Police	2,027,620	533,764	2,483,610	-989,754	0.00
Paradise Valley Police	9,637,887	1,333,581	8,004,820	299,486	0.90
Parker Police	871,389	225,547	1,158,944	-513,102	0.00
Patagonia Marshals	23,172	10,932	90,990	-78,750	0.00
Payson Fire Fighters	2,159,709	458,043	2,323,584	-621,918	0.00
Payson Police	4,980,232	727,704	3,695,401	557,127	2.77
Peoria Fire Fighters	12,847,367	3,297,836	12,854,245	-3,304,714	0.00
Peoria Police	17,231,298	2,813,146	14,695,919	-277,767	0.00
Phoenix Fire Fighters	537,154,927	68,032,606	548,299,451	-79,177,130	0.00
Phoenix Police	938,885,835	108,167,032	967,403,829	-136,685,026	0.00
Picture Rocks Fire Fighters	638,256	191,221	888,337	-441,302	0.00
Pima Community College Police	3,079,754	756,568	2,920,010	-596,824	0.00
Pima County Attorney Investigators	\$ 1,253,300	\$ 223,528	\$ 1,230,854	\$ -201,082	0.00%
Pima County Sheriffs	120,043,833	7,971,037	127,735,358	-15,662,562	0.00

<b>Employer</b>	<b>Actuarial Accrued Liability</b>	<b>Members</b>	<b>Employers</b>	<b>Emp. Unf Act. Acc. Liability</b>	<b>Amortization Payment*</b>
Pima Police	47,470	14,786	138,923	-106,239	0.00
Pinal County Sheriffs	18,309,799	2,706,288	19,519,552	-3,916,041	0.00
Pine-Strawberry Fire Fighters	1,265,296	295,935	925,005	44,356	0.47
Pinetop Fire Fighters	658,580	106,376	297,388	254,816	2.25
Pinetop-Lakeside Police	1,966,319	208,317	1,694,172	63,830	0.92
Prescott Fire Fighters	16,956,679	2,040,995	16,163,585	-1,247,901	0.00
Prescott Police	15,476,798	1,730,215	11,656,915	2,089,668	4.46
Prescott Valley Police	2,638,806	610,610	2,365,768	-337,572	0.00
Quartzsite Marshals	353,907	113,008	282,835	-41,936	0.00
Rio Rico Fire District	213,963	30,682	88,615	94,666	1.72
Safford Police	3,843,609	458,069	3,024,967	360,573	3.88
Sahuarita Police	176,727	79,036	179,682	-81,991	0.00
Salt River Pima-Maricopa Fire Fighters	3,209,648	548,817	1,811,936	848,895	1.84
Salt River Pima-Maricopa Police	3,191,748	466,680	1,146,790	1,578,278	3.69
San Luis Fire Fighters	558,971	155,772	504,522	-101,323	0.00
San Luis Police	1,607,932	420,849	1,338,150	-151,067	0.00
Santa Cruz County Sheriffs	4,995,933	753,130	3,455,103	787,700	3.64
Scottsdale Police	80,996,941	11,597,848	83,185,721	-13,786,628	0.00
Sedona Fire District	3,499,079	857,420	3,113,111	-471,452	0.00
Sedona Police	1,314,436	455,197	1,435,255	-576,016	0.00
Show Low Fire Fighters	162,050	64,158	183,288	-85,396	0.00
Show Low Police	2,243,212	397,560	2,160,785	-315,133	0.00
Sierra Vista Fire Fighters	5,538,330	1,375,954	8,351,104	-4,188,728	0.00
Sierra Vista Police	12,196,446	1,533,730	11,236,562	-573,846	0.00
Snowflake Police	1,219,955	196,048	789,309	234,598	3.77
Somerton Fire Fighters	693,179	125,282	429,694	138,203	1.69
Somerton Police	1,115,589	170,706	586,050	358,833	3.18
South Tucson Fire Fighters	1,641,797	215,956	1,714,101	-288,260	0.00
South Tucson Police	3,425,739	337,408	1,345,258	1,743,073	11.34
Springerville Police	373,752	125,603	432,918	-184,769	0.00
St. John's Police	129,916	80,888	164,730	-115,702	0.00
Summit Fire District	1,039,634	220,236	822,993	-3,595	0.00
Sun City Fire Fighters	10,177,301	3,792,009	5,391,027	994,265	1.70
Sun City West Fire District	3,648,860	956,627	3,384,545	-692,312	0.00
Sun Lakes Fire District	2,574,879	628,851	2,584,624	-638,596	0.00
Superior Police	468,700	108,689	615,029	-255,018	0.00
Surprise Fire Fighters	1,999,033	783,347	2,479,869	-1,264,183	0.00
Surprise Police	4,453,508	1,119,929	4,131,044	-797,465	0.00
Taylor	0	0	1,688	-1,688	0.00
Tempe Fire Fighters	58,288,980	6,097,078	61,822,554	-9,630,652	0.00
Tempe Police	\$ 81,417,297	\$ 10,742,469	\$ 71,071,346	\$ -396,518	0.00%
Thatcher Police	1,432,262	350,732	1,569,665	-488,135	0.00
Three Points Fire District	81,424	58,762	141,860	-119,198	0.00



<u>Employer</u>	<u>Actuarial Accrued Liability</u>	<u>Members</u>	<u>Employers</u>	<u>Emp. Unf Act. Acc. Liability</u>	<u>Amortization Payment*</u>
Tolleson Fire Fighters	1,596,941	490,115	1,522,253	-415,427	0.00
Tolleson Police	2,209,712	355,739	2,211,599	-357,626	0.00
Tombstone Marshals	117,106	95,615	295,978	-274,487	0.00
Tri-City Fire District	87,677	23,704	95,078	-31,105	0.00
Tubac Fire District	518,744	178,394	572,331	-231,981	0.00
Tucson Airport Authority Fire Fighters	5,202,989	869,786	4,696,992	-363,789	0.00
Tucson Airport Authority Police	5,417,204	744,696	3,516,596	1,155,912	5.13
Tucson Estates Fire Fighters	0	0	0	0	0.00
Tucson Fire Fighters	209,177,703	19,447,388	215,794,918	-26,064,603	0.00
Tucson Police	289,567,946	28,672,091	301,498,084	-40,602,229	0.00
U of A Police	7,196,225	916,766	6,829,196	-549,737	0.00
Verde Valley Fire District	832,094	290,146	1,200,950	-659,002	0.00
Wellton Police	206,946	55,824	203,598	-52,476	0.00
Wickenburg Police	1,614,328	236,389	895,831	482,108	6.99
Willcox Police	1,363,625	260,615	1,163,750	-60,740	0.00
Williams Police	745,344	172,137	936,328	-363,121	0.00
Winslow Fire Fighters	1,153,977	194,515	3,683,573	-2,724,111	0.00
Winslow Police	2,627,918	337,334	3,311,365	-1,020,781	0.00
Yavapai County Attorney Investigators	341,269	88,100	217,888	35,281	2.36
Yavapai County Sheriffs	14,232,671	2,022,874	10,538,101	1,671,696	2.42
Youngtown Police	537,538	96,489	742,554	-301,505	0.00
Yuma County Sheriffs	11,753,780	1,232,456	11,437,279	-915,955	0.00
Yuma Fire Fighters	29,078,933	2,895,038	27,803,083	-1,619,188	0.00
Yuma Police	30,716,985	3,881,350	34,640,113	-7,804,478	0.00
<b>Totals</b>	<b>\$4,144,211,267</b>	<b>\$495,565,136</b>	<b>\$4,188,821,334</b>	<b>\$(540,175,203)</b>	<b>(3.95)%</b>

\*Twenty years from July 1, 2002.



***Section Three:***

***Retirement System  
Benefit Provisions***



Enrolled Actuaries and Consultants

**Summary of Plan Provisions Valued and/or Considered**

**Membership:** Persons who are employed in a covered position, prior to attaining age 50 years, for at least 20 hours a week for more than six months per year.

**Average Monthly Compensation:** 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.

**Normal Retirement:** First day of month following completion of 20 years of service or following 62<sup>nd</sup> 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.

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 equal to twice the amount of pension based on 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

**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, as follows:

<u>Credited Service</u>	<u>Percent of Normal Pension</u>
Less than 7 years	25%
7 - 13 years	50%
14 - 19 years	75%

**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 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.

**Offset of Ordinary or Accidental Disability Retirement before the member’s normal retirement date:** The pension is reduced if the retiree engages in any employment and the income from this employment is greater than the retiree’s pension. The reduction is equal to the difference between the retiree’s income from employment and the retiree’s pension.

**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.

**Survivor pension:** Death while a member 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.

**Child’s pension:** 1/9 of pension deceased active member would have been paid for accidental disability retirement (equal shares of 3/9 if more than three children); or, in the case of a retired member’s pension (pension shares of 3/9 if more than three children). Payable to a dependent child under age 18 (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 (age 23 if a full-time student). Guaranteed return of accumulated contributions – if aggregate amount of pension payments to member and beneficiaries are less than member’s accumulated contributions, difference is paid to designated contingent refund beneficiary, if living, otherwise to nearest kin as selected by board.

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

**Post-Retirement Adjustments:** Effective July 1, 1986, retirees or beneficiaries who are age 55 or older and all disability retirees regardless of age and who were on the retirement rolls on June 30 of the previous year may receive pension increases. Effective July 1, 1999, retired members and survivors who have been on rolls for at least two years, regardless of age, may receive pension increases. Increases are subject to the level of investment income earned.

**Post-Retirement Health Insurance Subsidy:** Payable on behalf of retired members and survivors who elect coverage provided by the state or participating employer. The 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

**Deferred Retirement Option Plan (DROP):** Members with at least 20 years of credited service may elect to enter the DROP for up to 60 months. During the DROP period, the frozen accrued pension is credited to the member’s DROP account. The account is paid at time of actual retirement.

**Member Contributions:** Members contribute 7.65% of compensation.

**Employer Contributions:** Level percent of payroll normal cost plus 20 year amortization of unfunded actuarial accrued liability.





*Section Four:*

***Actuarial Assumptions  
And Methods***





## **Enrolled Actuaries and Consultants**

**Summary of Valuation Assumptions**

*Economic Assumptions*

**Interest Rate:** 9.0% (net of expenses)

**Salary Increases:** 5.5% for inflation and 1% for other across-the-board increases, plus age-related merit and longevity.

**Sample Annual Rates of Salary Increase**

<b>Age</b>	<b>Across-the-Board</b>	<b>Merit and Longevity</b>	<b>Other</b>	<b>Total</b>
20	5.5%	3.0%	1.0%	9.5%
25	5.5	3.0	1.0	9.5
30	5.5	2.6	1.0	8.6
35	5.5	1.1	1.0	7.6
40	5.5	0.2	1.0	6.7
45	5.5	0.2	1.0	6.7
50	5.5	0.2	1.0	6.7
55	5.5	0.1	1.0	6.6
60	5.5	-	1.0	6.5
65	5.5	-	1.0	6.5

**Demographic Assumptions**

**Non-Disability Mortality rates:** 1971 Group Annuity Mortality Table Projected to 2000 (Male), female ages set back six years (first used for June 30, 1999 valuation).

**Disability Mortality Rates:** 1971 Group Annuity Mortality Table Projected to 1984 (Male), female ages set back six years.

Sample Ages	Single Life Retirement Values							
	Non-Disability Table		Disability Table		Non-Disability Table		Disability Table	
	Present Value of \$100 Monthly For Life		Present Value of \$100 Monthly For Life		Future Life Expectancy (Years)		Future Life Expectancy (Years)	
	Men	Women	Men	Women	Men	Women	Men	Women
20					56.86	62.72	55.98	61.84
25					51.98	57.83	51.12	56.96
30					47.12	52.95	46.27	52.09
35					42.29	48.09	41.46	47.24
40	\$12,930	\$13,272	\$12,861	\$13,225	37.51	43.25	36.69	42.42
45	12,522	12,997	12,430	12,933	32.80	38.46	32.01	37.64
50	11,997	12,613	11,879	12,526	28.28	33.73	27.53	32.93
55	11,342	12,112	11,199	11,999	23.98	29.17	23.28	28.40
60	10,513	11,485	10,346	11,347	19.90	24.82	19.27	24.11
65	9,490	10,694	9,308	10,532	16.09	20.70	15.55	20.05
70	8,326	9,710	8,145	9,530	12.69	16.82	12.25	16.27
75	7,124	8,564	6,963	8,382	9.82	13.32	9.49	12.87
80	5,879	7,371	5,748	7,206	7.39	10.36	7.17	10.02
85	4,791	6,120	4,696	5,983	5.57	7.83	5.43	7.59
90	3,864	4,994	3,796	4,893	4.19	5.89	4.10	5.74

**Termination of Employment:** Service-related rates for first five years of employment and age-related rates after first five years of employment. The sample rates are as follows:

		Percent Terminating Within Next Year				Disability			
		Police Officers		Firefighters		Police Officers		Firefighters	
Sample Ages	Years of Service	Low	High	Low	High	Low	High	Low	High
ALL	0	20.00%	25.00%	8.00%	10.00%				
	1	8.50	15.00	3.00	7.00				
	2	3.00	7.50	2.00	4.00				
	3	2.50	7.00	1.00	4.00				
	4	2.00	5.00	0.60	4.00				
25	5 and over	1.00	2.50	0.60	2.50	0.15%	0.15%	0.12%	0.14%
30		1.00	2.50	0.40	2.50	0.16	0.16	0.13	0.14
35		0.95	2.35	0.35	1.70	0.23	0.23	0.18	0.21
40		0.85	2.10	0.30	1.50	0.34	0.34	0.27	0.31
45		0.75	1.85	0.20	1.50	0.52	0.52	0.42	0.47
50		0.65	1.75	0.10	1.50	0.83	0.83	0.66	0.75
55		0.55	1.75	0.10	1.50	1.45	1.45	1.16	1.30
60		0.50	1.75	0.10	1.50	2.00	2.00	1.60	1.80

*Rates first used for June 30, 1999 valuation.*

The listing on page 27 indicates the termination assumptions used for each participating unit.

**Retirement Rates:** Age-related rates based on the following schedule:

**Percent of Active Members Retiring within Year  
Following Attainment of Indicated Retirement Age**

Service	Percent of Active Members Retiring During Next year			
	Police Low	Police High	Fire Low	Fire High
20	25%	40%	15%	30%
21	10	16	5	10
22	10	16	5	15
23	10	16	5	10
24	5	5	5	10
25	25	40	20	40
26	10	15	15	15
27	10	20	10	20
28	15	30	10	30
29	20	50	10	50
30	10	75	20	75
31	10	75	25	75
32	60	75	60	75
33	75	75	75	75
34	75	75	75	75
35	75	75	75	75
36	75	75	75	75
37	75	75	75	75
38	75	75	75	75
39	75	75	75	75

Active members with at least 40 years of service are assumed to retire within the year. Members who do not acquire 20 years of service prior to age 62 are assumed to retire upon first eligibility following attainment of age 62.

These rates adopted by the Fund Manager, as recommended by the System’s actuary, were first used for the June 30, 1999 valuations.

The listing on page 27 indicates the retirement assumptions used for each participating unit.

The termination and retirement assumptions used for each participating unit are as follows:

### Low Separation and High Retirement Assumptions

ASU Campus Police	Mesa Fire Fighters	Scottsdale Police
Dept. of Public Safety	Mesa Police	Tempe Fire Fighters
Douglas Fire Fighters	Phoenix Fire Fighters	Tucson Fire Fighters
Flagstaff Fire Fighters	Phoenix Police	Tucson Police
Game & Fish Department	Pima Police	Winslow Fire Fighters
Glendale Fire Fighters	Pima Sheriffs	Yuma Fire Fighters
Maricopa Sheriffs	Pinal County Sheriffs	Yuma Police
		Yuma Sheriffs

### High Separation and Low Retirement Assumptions

Apache County Sheriffs	Chino Valley Fire District	Fort Mohave Mesa
Apache Junction Fire District	Chino Valley Police	Fire District
Apache Junction Police	Clarksdale Police	Fountain Hills Marshals
Arizona Dept of Liquor Licenses	Clifton Fire Fighters	Fredonia Marshals
Arizona State Attorney General Invest.	Clifton Police	Fry Fire Fighters
Arizona State Capitol Police	Cochise County Sheriffs	Gila County Sheriffs
Arizona State Parks	Coconino County Sheriffs	Gila River Fire Fighters
Avondale Fire Fighters	Coolidge Police	Gila River Police
Avondale Police	Cottonwood Fire Fighters	Gilbert Fire Fighters
Avra Valley Fire District	Cottonwood Police	Gilbert Police
Benson Police	D.E.M.A.	Glendale Fire Fighters
Bisbee Fire Fighters	Daisy Mountain Fire District	Glendale Police
Bisbee Police	Diamond Star Fire Fighters	Globe Fire Fighters
Buckeye Fire Fighters	Douglas Police	Globe Police
Buckeye Police	Drexel Heights Fire Fighters	Golden Valley Fire Dist.
Buckskin Fire Fighters	Eagar Police	Golder Ranch Fire Dist.
Bullhead City Fire Fighters	El Mirage Fire Fighters	Goodyear Fire Fighters
Bullhead City Police	El Mirage Police	Goodyear Police
Camp Verde Fire District	Eloy Police	Graham County Sheriffs
Camp Verde Marshals	Flagstaff Police	Green Valley Fire Dist.
Casa Grande Fire Fighters	Florence Fire Fighters	Greenlee County
Casa Grande Police	Florence Police	Attorney Investigators
Central Yavapai Fire Fighters	Fort McDowell Tribal	Greenlee County Sheriffs
Chandler Fire Fighters	Police Department	Guadalupe Fire Fighters
Chandler Police		Guadalupe Police

**High Separation and Low Retirement Assumptions (continued)**

Hayden Police	Payson Fire Fighters	Springerville Police
Heber-Overgaard Fire Fighters	Payson Police	St. John's Police
Highlands Fire District	Peoria Fire Fighters	Summit Fire District
Holbrook Police	Peoria Police	Sun City Fire Fighters
Hualapai Valley Fire Fighters	Picture Rocks Fire Fighters	Sun City West Fire Dstrict
Kearny Police	Pima Comm. College Police	Sun Lakes Fire District
Kingman Fire Fighters	Pima County Attorney Invest.	Superior Police
Kingman Police	Pine-Strawberry Fire Fighters	Surprise Fire Fighters
La Paz County Attorney Invest.	Pinetop Fire Fighters	Surprise Police
La Paz County Sheriffs	Pinetop-Lakeside Police	Tempe Police
Lake Havasu City Fire Fighters	Prescott Fire Fighters	Thatcher Police
Lake Havasu City Police	Prescott Police	Three Points Fire District
Lakeside Fire Fighters	Prescott Valley Police	Tolleson Fire Fighters
Mammoth Police	Quartzsite Marshals	Tolleson Police
Marana Police	Rio Rico Fire District	Tombstone Marshals
Maricopa County Attorney Invest.	Safford Police	Tri-City Fire District
Maricopa County Park Rangers	Sahuarita Police	Tubac Fire District
Mayer Fire District	Salt River Pima-Maricopa	Tucson Airport Authority
Miami Fire Fighters	Fire Fighters	Fire Fighters
Miami Police	Salt River Pima-Maricopa	Tucson Airport Authority
Mohave County Sheriffs	Police	Police
Mohave Valley Fire Fighters	San Luis Fire Fighters	Tucson Estates Fire Fighters
Montezuma/Rimrock Fire Fighters	San Luis Police	U of A Police
NAU Police	Santa Cruz County Sheriffs	Verde Valley Fire District
Navajo County Attorney Invest.	Sedona Fire District	Wellton Police
Navajo County Sheriffs	Sedona Police	Wickenburg Police
Nogales Fire Fighters	Show Low Fire Fighters	Willcox Police
Nogales Police	Show Low Police	Williams Police
Northwest Fire District	Sierra Vista Fire Fighters	Winslow Police
Oro Valley Police	Sierra Vista Police	Yavapai County Attorney
Page Fire Fighters	Snowflake Police	Investigators
Page Police	Somerton Fire Fighters	Yavapai County Sheriffs
Paradise Valley Police	Somerton Police	Youngtown Police
Parker Police	South Tucson Fire Fighters	
Patagonia Marshals	South Tucson Police	

### **Actuarial Method Used for the Valuation**

**Normal Cost.** Normal cost and the allocation of actuarial present values between service rendered before and after the valuation date were determined using an individual entry age actuarial cost method having the following characteristics:

- ❖ The annual normal costs for each individual active member, payable from date of hire to date of retirement, are sufficient to accumulate the value of the member's benefit at the time of retirement;
- ❖ Each annual normal cost is a constant percentage of the member's year-by-year projected covered pay.

**Actuarial Accrued Liability.** The actuarial accrued liability allocated to service rendered prior to the valuation date, including experience gains and losses, was computed using the assumptions summarized in this report. Accrued valuation assets were subtracted from the computed actuarial accrued liability. Any unfunded amount was amortized as level percent of payroll over an open period of 20 years. If accrued valuation 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 6.5% annually for the purpose of computing the amortization payment (credit) as a level percent of payroll.





***Section Five:***  
***Valuation Data***



## Enrolled Actuaries and Consultants

## Derivation of Funding Value of Pension Fund Assets

	Values as of June 30				
	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>
<b>Beginning of Year</b>					
(1) Book Value	\$3,512,950,451	\$3,845,046,198	\$4,014,033,477	\$4,038,098,811	\$ -
(2) Market Value	4,841,649,236	5,378,550,787	4,422,062,255	3,696,318,235	-
(3) Funding Value	4,455,270,545	5,122,608,436	5,324,839,502	5,186,843,116	
<b>End of Year</b>					
(4) Market Value	5,378,550,787	4,421,967,619	3,696,318,235		
(5) Net Addition to Assets, Exc. Inv. Income	(51,231,075)	(60,567,743)	(77,790,042)		
(6) Total Net Investment Income = (4) - (2) - (5)	588,132,626	(896,015,425)	(647,953,978)		
(7) Projected Net Rate of Return	9.00%	9.00%	9.00%		
(8) Projected Investment Income = (7) x [(3) + .5 x (5)]	398,668,951	458,309,211	475,735,003		
(9) Investment Income in Excess of Proj.	189,463,675	(1,354,324,636)	(1,123,688,981)		
(9a) Allocation to Future Benefit Increase Reserve (Actual)	72,225,529	-	-		
(9b) Allocation to Funding Value of Assets ((9) - (9a))	117,238,146	(1,354,324,636)	(1,123,688,981)	-	-
(10) Excess Investment Income Recognized (4 Yr. Recog.)					
(10a) From Current Year = .25 x (9b)	29,309,537	(338,581,159)	(280,922,245)	-	-
(10b) From One Year Prior	54,252,520	29,309,537	(338,581,159)	(280,922,245)	-
(10c) From Two Years Prior	59,508,700	54,252,520	29,309,537	(338,581,159)	-
(10d) From Three Years Prior	104,603,729	59,508,700	54,252,520	29,309,537	(338,581,159)
(11) Change in Funding Value =(5) + (8) + (9a) + (10) [a..d]	667,337,891	202,231,066	(137,966,386)		
<b>End of Year Values</b>					
(12) Book Value	3,845,046,198	4,013,938,840	4,038,098,811		
(4) Market Value	5,378,550,787	4,421,967,619	3,696,318,235		
(13) Preliminary Funding Value (3) + (11)	5,122,608,436	5,324,839,502	5,186,843,116		
(14) Future Benefit Increase Reserve	862,440,738	662,898,016	502,456,646		
(15) Funding Value (13) - (14)	4,260,167,698	4,661,941,486	4,684,386,470		
(16) Funding Value Adjustment (15) - (12)	415,121,500	648,002,646	646,287,659		

## Participant Summary

**Summary of Retired Members and Survivors  
June 30, 2002**

<u>Pensions Being Paid*</u>	<u>Number</u>	<u>Annual Pensions</u>	<u>Average Pensions</u>
<b>Retired Members</b>			
Service Pensions	4,315	\$ 144,372,240	\$33,458
Disability Pensions	<u>872</u>	<u>23,351,556</u>	26,779
Totals	5,187	167,723,796	32,335
<b>Survivors</b>			
Spouses	766	16,055,484	20,960
Children with Guardians**	<u>36</u>	<u>433,692</u>	12,047
Totals	802	16,489,176	20,560
<b>Total Pensions Being Paid</b>	<b>5,989</b>	<b>\$ 184,212,972</b>	<b>\$30,759</b>

\* Does not include DROP participants totaling 645 with annual pensions of \$31,165,980.

\*\* Does not include pensions payable to children whose parent is being paid a survivor pension.

**Averages**

	<u>Average Age</u>	<u>Average Service</u>	<u>Average Retirement Age</u>
	(Years)	(Years)	(Years)
Service Retired Members	60.6	24.2	50.2
Disability Retired Members	53.4	15.3	43.9
Spouse Beneficiaries	64.8	18.8	44.7



**Summaries of Retired Members and Survivors  
June 30, 2002  
Tabulated by Attained Age of Recipient**

Attained Age	Service		Disability		Survivors		DROP		Totals	
	No.	Annual Pensions	No.	Annual Pensions	No.	Annual Pensions	No.	Annual Pensions	No.	Annual Pensions
Children w/Guardians		\$		\$	36	\$433,692		\$	36	\$ 433,692
20-24					1	16,536			1	16,536
25-29			2	32,088	4	84,288			6	116,376
30-34			23	499,548	7	159,228			30	658,776
35-39	1	2,640	59	1,458,732	20	404,904	1	30,036	81	1,896,312
40-44	80	2,602,932	91	2,353,368	41	925,608	30	1,009,656	242	6,891,564
45-49	401	13,127,988	149	4,126,296	63	1,306,236	147	6,447,432	760	25,007,952
50-54	900	31,776,612	194	5,548,200	69	1,454,520	259	12,825,936	1,422	51,605,268
55-59	980	34,857,444	179	5,006,772	91	1,883,532	177	9,225,156	1,427	50,972,904
64-64	765	26,715,180	73	1,940,424	88	1,826,784	26	1,306,872	952	31,789,260
65-69	541	16,944,276	52	1,207,860	87	1,782,348	4	262,212	684	20,196,696
70-74	353	10,682,568	35	849,984	111	2,400,816	1	58,680	500	13,992,048
75-79	181	4,867,560	9	201,516	72	1,521,792			262	6,590,868
80-84	70	1,795,560	4	85,560	59	1,202,808			133	3,083,928
85-89	36	844,584	2	41,208	34	707,340			72	1,593,132
90-94	7	154,896			15	298,872			22	453,768
95-99					4	79,872			4	79,872
<b>Totals</b>	<b>4,315</b>	<b>\$ 144,372,240</b>	<b>872</b>	<b>\$ 23,351,556</b>	<b>802</b>	<b>\$ 16,489,176</b>	<b>645</b>	<b>\$ 31,165,980</b>	<b>6,634</b>	<b>\$ 215,378,952</b>

**Pensions Being Paid  
Historical Schedule**

The following summary presents an analysis of the benefit changes that have taken place. The number of retired members and the amount of annual pensions has increased at compounded annual rates of 6.2% and 12.0% over the past five years.

<b>Valuation Date June 30</b>	<b>No.</b>	<b>Annual Pensions</b>	<b>% Incr. in Annual Pensions</b>	<b>Average Pension</b>	<b>Present Value of Pensions</b>	
					<b>Total</b>	<b>Average</b>
1980	1,198	\$8,921,649	32.3%	\$7,447	\$97,745,828	\$81,591
1985	1,927	21,986,179	18.6	11,410	214,202,673	111,159
1990	2,771	43,514,479	19.9	15,704	419,548,188	151,407
1995	3,959	85,544,676	10.3	21,608	831,141,888	209,937
1996	4,210	94,897,897	10.9	22,541	919,714,550	218,460
1997	4,440	104,374,026	10.0	23,508	1,008,310,914	227,097
1998	4,700	115,542,977	10.7	24,584	1,103,897,830	234,872
1999	5,050	132,364,761	14.6	26,211	1,287,068,837	254,865
2000	5,442	152,227,372	15.0	27,973	1,478,844,686	271,747
2001	5,782	170,281,580	11.9	29,450	1,722,264,280	297,866
<b>2002</b>	<b>5,989</b>	<b>184,212,972</b>	<b>8.2</b>	<b>30,759</b>	<b>1,905,915,966</b>	<b>318,236</b>

*Including DROP in 2002, there were \$215,378,952 annual pensions being paid to 6,634 persons, the percent increase in annual pensions would be 26.5% and the average pension would be \$32,466.*

## Retired Members and Survivors – By Employer

<u>Employer</u>	<u>Retired Members</u>				<u>Survivors</u>			<u>Totals</u>	
	<u>Service</u>		<u>Disability</u>		<u>No.</u>	<u>Child with</u>	<u>Annual</u>	<u>No.</u>	<u>Annual</u>
	<u>No.</u>	<u>Annual Pensions</u>	<u>No.</u>	<u>Annual Pensions</u>					
Apache County Sheriffs	6	\$ 158,460	4	\$ 75,192				10	\$ 233,652
Apache Junction Fire District			3	78,768				3	78,768
Apache Junction Police	4	97,872	3	90,900	2		38,580	9	227,352
Arizona Attorney General Investigators	9	234,612			1		29,544	10	264,156
Arizona Department of Liquor Licenses									
Arizona State Capitol Police	1	19,932	1	13,104				2	33,036
Arizona State Parks									
ASU Police	17	470,100	3	53,940	2		32,328	22	556,368
Avondale Fire Fighters			2	46,632				2	46,632
Avondale Police	2	56,868	5	100,236				7	157,104
Avra Valley Fire District									
Benson Police	2	55,032			1		17,208	3	72,240
Bisbee Fire Fighters	10	193,920	4	77,628	3		59,736	17	331,284
Bisbee Police	5	106,608	3	48,060	2		37,764	10	192,432
Buckeye Fire Fighters									
Buckeye Police	2	41,364			1		19,764	3	61,128
Buckskin Fire Fighters	2	47,028	2	61,104				4	108,132
Bullhead City Fire Fighters	4	125,160	2	49,092	1		15,780	7	190,032
Bullhead City Police	3	98,448	5	114,516				8	212,964
Camp Verde Fire District									
Camp Verde Marshals	1	29,412	1	15,372				2	44,784
Casa Grande Fire Fighters	14	453,456	1	39,588				15	493,044
Casa Grande Police	20	546,372	2	31,680	2		40,296	24	618,348
Central Yavapai Fire Fighters	5	163,692	3	68,388				8	232,080
Chandler Fire Fighters	12	414,336	1	29,220	3		58,968	16	502,524
Chandler Police	28	876,432	1	22,932	5	1	121,920	35	1,021,284
Chino Valley Fire District									
Chino Valley Police	1	18,348						1	18,348
Clarksdale Police					1		15,708	1	15,708
Clifton Fire Fighters					1		20,160	1	20,160
Clifton Police									
Cochise County Sheriffs	27	719,280	8	160,188	1		19,368	36	898,836
Coconino County Sheriffs	23	634,584	3	73,536	3		52,020	29	760,140
Coolidge Police	1	28,608	2	45,792				3	74,400
Cottonwood Fire Fighters									
Cottonwood Police	1	21,900	5	94,092	1		19,896	7	135,888
D.E.M.A.	3	56,460	3	59,292				6	115,752
Daisy Mountain Fire District									
Department of Public Safety	637	20,446,296	103	2,596,236	96	5	2,129,964	841	25,172,496
Diamond Star Fire Fighters									
Douglas Fire Fighters	13	\$ 336,072	1	\$ 20,604	2		\$ 34,284	16	\$ 390,960
Douglas Police	14	283,860	2	47,184				16	331,044



<u>Employer</u>	<u>Retired Members</u>				<u>Survivors</u>			<u>Totals</u>	
	<u>Service</u>		<u>Disability</u>		<u>No.</u>	<u>Annual</u>		<u>No.</u>	<u>Annual</u>
	<u>No.</u>	<u>Pensions</u>	<u>No.</u>	<u>Pensions</u>	<u>Spouse</u>	<u>Child with Guardian</u>	<u>Pensions</u>	<u>No.</u>	<u>Pensions</u>
Drexel Heights Fire Fighters	1	18,732						1	18,732
Eagar Police	1	20,616						1	20,616
El Mirage Fire Fighters	1	31,836						1	31,836
El Mirage Police									
Eloy Police			1	22,908				1	22,908
Flagstaff Fire Fighters	23	641,856	12	289,152	5		108,708	40	1,039,716
Flagstaff Police	30	976,236	2	47,868	3		63,324	35	1,087,428
Florence Fire Fighters									
Florence Police	1	21,384						1	21,384
Flowing Wells									
Fort McDowell Tribal Fire Department									
Fort McDowell Tribal Police Department									
Fort Mohave Mesa Fire District			3	72,780				3	72,780
Fountain Hills Marshals									
Fredonia Marshals									
Fry Fire Fighters	9	294,744	1	26,700				10	321,444
Game & Fish Department	87	2,462,328	3	92,508	10	1	229,032	101	2,783,868
Gila County Sheriffs	9	213,960	3	33,768	2		36,024	14	283,752
Gila River Fire Fighters						2	15,768	2	15,768
Gila River Police									
Gilbert Fire Fighters			1	21,096				1	21,096
Gilbert Police	3	189,228	7	174,996	1		23,268	11	387,492
Glendale Fire Fighters	33	1,145,652	6	163,692	4		71,268	43	1,380,612
Glendale Police	66	2,387,844	18	509,340	4	1	96,792	89	2,993,976
Globe Fire Fighters	5	131,208	1	20,928	2		38,136	8	190,272
Globe Police	4	96,384	1	26,256	1		19,164	6	141,804
Golden Valley Fire District									
Golder Ranch Fire District	1	23,400			1		15,696	2	39,096
Goodyear Fire Fighters									
Goodyear Police	1	27,780			2	2	41,688	5	69,468
Graham County Sheriffs	2	39,420	1	20,112				3	59,532
Green Valley Fire District									
Greenlee County Attorney Investigators									
Greenlee County Sheriffs	2	36,672	1	13,500				3	50,172
Guadalupe Fire Fighters									
Guadalupe Police									
Hayden Police									
Heber-Overgaard Fire Fighters									
Highlands Fire District									
Holbrook Police	5	139,992	1	22,884	1		18,576	7	181,452
Hualapai Valley Fire Fighters		\$		\$			\$		\$
Kearny Police			1	24,348				1	24,348

<u>Employer</u>	<u>Retired Members</u>				<u>Survivors</u>			<u>Totals</u>	
	<u>Service</u>		<u>Disability</u>		<u>No.</u>	<u>Annual</u>		<u>No.</u>	<u>Annual</u>
	<u>No.</u>	<u>Pensions</u>	<u>No.</u>	<u>Pensions</u>	<u>Spouse</u>	<u>Child with Guardian</u>	<u>Pensions</u>		<u>Pensions</u>
Kingman Fire Fighters	4	106,428	2	47,940	2		30,144	8	184,512
Kingman Police	12	380,592	2	48,216				14	428,808
La Paz County Attorney Investigators									
La Paz County Sheriffs	6	180,984	3	52,428	2		27,840	11	261,252
Lake Havasu City Fire Fighters	12	410,100	1	25,176	2		47,424	15	482,700
Lake Havasu City Police	10	354,180	1	21,192	1		20,928	12	396,300
Lakeside Fire Fighters									
Laveen Fire District									
Mammoth Police						1	20,232	1	20,232
Marana Police			3	49,248	1		17,364	4	66,612
Maricopa County Attorney Investigators	10	317,196						10	317,196
Maricopa County Park Rangers									
Maricopa County Sheriffs	220	6,914,196	11	274,320	56	1	1,187,940	288	8,376,456
Mayer Fire District					1		13,428	1	13,428
Mesa Fire Fighters	62	2,334,432	21	718,968	15		373,200	98	3,426,600
Mesa Police	118	4,560,384	63	1,940,616	10		267,312	191	6,768,312
Miami Fire Fighters	1	26,052						1	26,052
Miami Police	1	20,064						1	20,064
Mohave County Sheriffs	10	249,204	6	138,696	7		116,448	23	504,348
Mohave Valley Fire Fighters									
Montezuma/Rimrock Fire Fighters									
NAU Police	8	235,752	1	16,632				9	252,384
Navajo County Attorney Investigators									
Navajo County Sheriffs	14	346,872			4		73,512	18	420,384
Nogales Fire Fighters	11	254,556			2		43,740	13	298,296
Nogales Police	8	179,796	2	29,568	1		21,228	11	230,592
Northwest Fire District	2	83,304	2	42,096				4	125,400
Oro Valley Police					2	1	37,356	3	37,356
Page Fire Fighters			1	19,356	1		22,500	2	41,856
Page Police	1	26,472						1	26,472
Paradise Valley Police	7	201,996	6	173,124	1		22,800	14	397,920
Parker Police	1	23,400						1	23,400
Patagonia Marshals									
Payson Fire Fighters	2	57,432						2	57,432
Payson Police	3	77,028	5	101,280	1		33,792	9	212,100
Peoria Fire Fighters	2	87,912			2	1	53,436	5	141,348
Peoria Police	10	330,612	4	109,188	3	1	56,688	18	496,488
Phoenix Fire Fighters	442	16,441,968	43	1,419,048	111	4	2,556,588	600	20,417,604
Phoenix Police	955	35,785,788	119	3,464,280	162	3	3,453,036	1,239	42,703,104
Picture Rocks Fire Fighters									
Pima Community College Police	1	30,780						1	30,780
Pima County Attorney Investigators	1	\$ 27,132		\$			\$	1	\$ 27,132
Pima County Sheriffs	172	4,998,492	40	994,572	31	1	622,236	244	6,615,300

<u>Employer</u>	<u>Retired Members</u>				<u>Survivors</u>			<u>Totals</u>	
	<u>Service</u>		<u>Disability</u>		<u>No.</u>	<u>Annual</u>	<u>No.</u>	<u>Annual</u>	
	<u>No.</u>	<u>Pensions</u>	<u>No.</u>	<u>Pensions</u>	<u>Spouse</u>	<u>Child with Guardian</u>		<u>Pensions</u>	<u>Pensions</u>
Pima Police									
Pinal County Sheriffs	27	680,304	8	128,484	10	2	186,096	47	994,884
Pine-Strawberry Fire Fighters									
Pinetop Fire Fighters									
Pinetop-Lakeside Police	4	105,612	1	19,368				5	124,980
Prescott Fire Fighters	21	570,636	5	144,504	3		55,812	29	770,952
Prescott Police	24	675,360	7	165,492	4		69,552	35	910,404
Prescott Valley Police	2	68,508	1	21,732				3	90,240
Quartzsite Marshals									
Rio Rico Fire District									
Safford Police	5	132,372	2	34,428	1		18,576	8	185,376
Sahuarita Police									
Salt River Pima-Maricopa Fire Fighters									
Salt River Pima-Maricopa Police	1	29,184	1	29,940		1	23,784	3	82,908
San Luis Fire Fighters									
San Luis Police					1		14,700	1	14,700
Santa Cruz County Sheriffs	6	136,344	2	38,976	2		41,700	10	217,020
Scottsdale Police	69	2,453,760	25	776,016	6		128,520	100	3,358,296
Sedona Fire District	1	34,320	1	28,020				2	62,340
Sedona Police									
Show Low Fire Fighters									
Show Low Police	3	69,804	1	18,648				4	88,452
Sierra Vista Fire Fighters	6	182,064						6	182,064
Sierra Vista Police	12	423,288			4		107,736	16	531,024
Snowflake Police	1	27,252	1	23,496				2	50,748
Somerton Fire Fighters						3	15,264	3	15,264
Somerton Police	1	20,328						1	20,328
South Tucson Fire Fighters	3	57,288	1	20,844	1		18,576	5	96,708
South Tucson Police	1	28,188	8	172,416	2		34,788	11	235,392
Springerville Police									
St. John's Police									
Summit Fire District									
Sun City Fire Fighters			1	27,288				1	27,288
Sun City West Fire District			1	26,844				1	26,844
Sun Lakes Fire District			1	23,052				1	23,052
Superior Police	1	19,260						1	19,260
Surprise Fire Fighters									
Surprise Police	2	62,892	1	9,912				3	72,804
Tempe Fire Fighters	52	1,821,540	14	476,976	6		121,740	72	2,420,256
Tempe Police	89	3,045,684	9	279,048	9		196,920	107	3,521,652
Thatcher Police	1	21,204	1	7,164				2	28,368
Three Points Fire District		\$		\$			\$		\$
Tolleson Fire Fighters									
Tolleson Police	4	121,044						4	121,044

<u>Employer</u>	<u>Retired Members</u>				<u>Survivors</u>			<u>Totals</u>	
	<u>No.</u>	<u>Service Annual Pensions</u>	<u>No.</u>	<u>Disability Annual Pensions</u>	<u>No. Spouse</u>	<u>Child with Guardian</u>	<u>Annual Pensions</u>	<u>No.</u>	<u>Annual Pensions</u>
Tombstone Marshals									
Tri-City Fire District									
Tubac Fire District									
Tucson Airport Authority Fire Fighters	5	156,792	1	21,072				6	177,864
Tucson Airport Authority Police	5	187,332	4	97,800				9	285,132
Tucson Estates Fire Fighters									
Tucson Fire Fighters	268	8,948,640	33	902,556	43	1	911,412	345	10,762,608
Tucson Police	309	9,657,696	130	3,569,208	50	4	1,075,416	493	14,302,320
U of A Police	7	188,532	6	136,176	5		95,856	18	420,564
Verde Valley Fire District									
Wellton Police									
Wickenburg Police	2	71,484						2	71,484
Willcox Police			1	19,692	2		41,388	3	61,080
Williams Police	1	24,420						1	24,420
Winslow Fire Fighters	1	23,268			1		19,716	2	42,984
Winslow Police	4	94,800			3		47,748	7	142,548
Yavapai County Attorney Investigators									
Yavapai County Sheriffs	13	328,920	15	313,440	5		81,828	33	724,188
Youngtown Police	1	24,132			1		16,824	2	40,956
Yuma County Sheriffs	15	396,480	9	198,732	10		179,304	34	774,516
Yuma Fire Fighters	52	1,691,928			7		135,708	59	1,827,636
Yuma Police	39	1,114,692	9	238,176	8		190,308	56	1,543,176
<b>Totals*</b>	<b>4,315</b>	<b>\$144,372,240</b>	<b>872</b>	<b>\$23,351,556</b>	<b>766</b>	<b>36</b>	<b>\$16,489,176</b>	<b>5,989</b>	<b>\$184,212,972</b>

- In addition, there were 645 DROP participants with annual pensions totaling \$31,165,980.

## Active Members Included in Valuation

## Historical Schedule

Valuation Date	Partic. Units	Active Members	Valuation Payroll (+000)	Age (Yrs.)	Average Service (Yrs.)	Pay	% Increase in Avg. Pay
6-30-77	54	6,405	\$ 97,177	33.9	7.6	\$ 15,172	- %
6-30-80	71	7,264	144,371	34.1	7.9	19,875	8.2
6-30-85	106	8,536	244,094	35.2	8.7	28,596	5.9
6-30-90	130	10,125	371,950	36.6	9.8	36,736	4.7
6-30-95	155	11,971	496,063	37.4	10.3	41,439	3.8
6-30-96	162	12,477	541,231	37.6	10.3	43,378	4.7
6-30-97	161	13,901	579,341	37.6	10.3	44,194	1.9
6-30-98	167	13,635	625,222	37.8	10.3	45,854	3.8
6-30-99	171	14,128	682,184	37.8	10.3	48,286	5.3
6-30-00	181	14,886	751,280	37.7	10.0	50,469	4.5
6-30-01	186	14,473	826,740	37.2	10.0	53,431	5.9
<b>6-30-02</b>	<b>194</b>	<b>15,557*</b>	<b>854,249</b>	<b>36.9</b>	<b>9.4</b>	<b>54,911</b>	<b>2.8</b>

\* Excluding 645 DROP participants

## Active Members as of June 30, 2002

Attained Age	Service							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Payroll
Under 20	4							4	\$ 135,896
20-24	659	4						663	25,624,506
25-29	1,943	558	1					2,502	109,940,212
30-34	1,535	1,657	388	4				3,584	179,141,970
35-39	613	945	1,066	497	15			3,136	176,372,289
40-44	307	403	584	996	386	8		2,684	166,422,558
45-49	111	156	261	500	538	215	1	1,782	118,043,191
50-54	46	61	113	197	203	237	37	894	59,682,859
55-59	12	19	46	75	38	42	28	260	16,159,111
60		1	7	8	1	1	1	19	1,064,015
61			2	8	1		1	12	698,247
62				1	2	1		4	229,071
63			1					1	48,138
64	1			5				6	298,490
65						2		2	130,928
66						2		2	120,793
68				1				1	47,622
69							1	1	89,015
<b>Totals</b>	<b>5,231</b>	<b>3,804</b>	<b>2,469</b>	<b>2,292</b>	<b>1,184</b>	<b>508</b>	<b>69</b>	<b>15,557</b>	<b>\$ 854,248,911</b>

## Group Averages:

Age: 36.9 years  
Service: 9.4 years  
Annual Pay: \$54,911

## Inactive Members as of June 30, 2002

Attained Age	Service						Total	
	0-4	5-9	10-14	15-19	20-24	25-29		30 Plus
20-24	51						51	
25-29	156	9					165	
30-34	136	26	5				167	
35-39	68	20	8	3			99	
40-44	48	13	13	6			80	
45-49	25	6	12	5			48	
50-54	13	2	10	3		1	29	
55-59	4	2	9	1			16	
60-64	1		4	1			1	7
<b>Totals</b>	<b>502</b>	<b>78</b>	<b>61</b>	<b>19</b>		<b>1</b>	<b>1</b>	<b>662</b>

## Active Members - By Employer

Employer	No.	Annual Compensation	Average Compensation		Average	
			Amount	% Change	Age (Yrs.)	Service (Yrs.)
Apache County Sheriffs	34	\$ 1,320,357	\$38,834	7.4%	36.3	6.4
Apache Junction Fire District	66	3,659,544	55,448	8.8	33.5	7.4
Apache Junction Police	47	2,423,243	51,558	0.6	38.9	11.0
Arizona Attorney General Investigators	26	1,374,681	52,872	-6.8	45.1	12.1
Arizona Department of Liquor Licenses	21	913,475	43,499	5.9	41.9	11.5
Arizona State Capitol Police	22	870,846	39,584	10.2	36.0	6.8
Arizona State Parks	41	1,588,798	38,751		41.0	11.3
ASU Police	51	2,262,495	44,363	-0.1	34.6	7.4
Avondale Fire Fighters	34	1,942,617	57,136	3.8	33.6	6.1
Avondale Police	65	3,316,268	51,020	14.4	34.0	5.9
Avra Valley Fire District	12	356,483	29,707	-2.0	34.3	4.6
Benson Police	12	433,260	36,105	-1.2	33.0	6.9
Bisbee Fire Fighters	21	770,972	36,713	2.1	36.6	8.0
Bisbee Police	14	553,414	39,530	4.7	34.9	8.1
Buckeye Fire Fighters	15	587,539	39,169	-1.5	30.7	1.0
Buckeye Police	22	970,155	44,098	6.7	35.9	6.5
Buckskin Fire Fighters	8	373,075	46,634	-7.4	36.4	8.3
Bullhead City Fire Fighters	66	3,154,031	47,788	6.0	35.9	10.4
Bullhead City Police	72	3,603,370	50,047	4.1	37.2	9.2
Camp Verde Fire District	17	602,240	35,426		33.0	5.5
Camp Verde Marshals	15	609,110	40,607	8.1	33.4	5.7
Casa Grande Fire Fighters	28	1,566,269	55,938	2.5	36.2	7.1
Casa Grande Police	57	2,978,744	52,259	2.8	36.0	9.6
Central Yavapai Fire Fighters	63	3,164,892	50,236	10.9	36.4	9.2
Chandler Fire Fighters	157	9,239,086	58,848	-0.4	35.6	9.1
Chandler Police	279	16,650,975	59,681	1.3	34.0	8.1
Chino Valley Fire District	18	758,016	42,112	11.4	37.2	8.7
Chino Valley Police	17	681,866	40,110	6.5	38.6	7.9
Clarksdale Police	8	273,872	34,234	-2.4	40.1	9.7
Clifton Fire Fighters	1	32,070	32,070	6.3	54.0	25.2
Clifton Police	7	211,387	30,198	20.5	34.7	4.6
Cochise County Sheriffs	71	2,709,845	38,167	2.6	37.9	8.9
Coconino County Sheriffs	60	2,658,275	44,305	2.8	37.3	10.7
Coolidge Police	28	1,153,793	41,207	2.7	35.6	7.7
Cottonwood Fire Fighters	9	404,141	44,905	0.2	40.6	9.8
Cottonwood Police	22	842,397	38,291	-5.4	34.2	6.6
D.E.M.A.	27	1,094,739	40,546	4.5	37.1	11.9
Daisy Mountain Fire District	32	1,550,983	48,468	10.1	32.6	4.5
Department of Public Safety	1,000	52,816,832	52,817	-0.3	37.7	11.8
Diamond Star Fire Fighters	4	191,146	47,787	29.9	33.5	6.4
Douglas Fire Fighters	24	952,421	39,684	-7.9	37.3	10.9
Douglas Police	33	1,266,717	38,385	-3.0	33.9	8.6
Drexel Heights Fire Fighters	57	2,043,388	35,849	4.6	35.1	7.8



## Section Five: Valuation Data

Employer	No.	Annual Compensation	Average Compensation		Average	
			Amount	% Change	Age (Yrs.)	Service (Yrs.)
Eagar Police	10	335,988	33,599	0.5	35.2	6.0
El Mirage Fire Fighters	11	507,113	46,101	8.1	26.7	3.1
El Mirage Police	36	1,639,299	45,536	10.5	30.6	3.3
Eloy Police	30	\$ 1,265,800	\$42,193	3.8%	33.5	6.2
Flagstaff Fire Fighters	78	3,944,841	50,575	-6.5	39.0	12.8
Flagstaff Police	86	4,415,016	51,337	7.9	32.0	7.9
Florence Fire Fighters	9	343,076	38,120	6.7	36.0	3.8
Florence Police	14	589,329	42,095	5.7	36.2	5.7
Flowing Wells						
Fort McDowell Tribal Fire Department	13	493,249	37,942		32.6	3.2
Fort McDowell Tribal Police Department	16	806,496	50,406		32.8	4.0
Fort Mohave Mesa Fire District	28	1,222,473	43,660	6.8	36.6	8.0
Fountain Hills Marshals	12	549,166	45,764	14.5	41.2	5.6
Fredonia Marshals	4	126,000	31,500		30.0	2.1
Fry Fire Fighters	29	1,386,427	47,808	5.2	32.3	6.9
Game & Fish Department	146	6,319,795	43,286	0.8	39.6	12.8
Gila County Sheriffs	40	1,364,567	34,114	5.8	40.0	8.2
Gila River Fire Fighters	58	2,916,349	50,282	9.4	32.7	3.9
Gila River Police	63	3,144,582	49,914	-4.0	32.4	3.3
Gilbert Fire Fighters	81	4,385,184	54,138	2.9	32.6	5.0
Gilbert Police	131	7,307,339	55,781	7.8	32.6	6.6
Glendale Fire Fighters	160	9,468,223	59,176	2.0	37.2	11.3
Glendale Police	308	17,147,003	55,672	6.1	34.8	8.8
Globe Fire Fighters	18	615,198	34,178	11.8	36.8	6.9
Globe Police	23	845,184	36,747	9.8	36.2	10.0
Golden Valley Fire District	16	554,871	34,679	1.4	36.3	7.1
Golder Ranch Fire District	59	2,414,527	40,924	9.7	32.8	6.7
Goodyear Fire Fighters	35	2,110,215	60,292	7.9	32.5	4.8
Goodyear Police	46	2,470,604	53,709	5.6	35.0	7.2
Graham County Sheriffs	18	607,113	33,729	7.8	36.6	7.5
Green Valley Fire District	41	1,826,287	44,544		37.3	7.0
Greenlee County Attorney Investigators						
Greenlee County Sheriffs	12	412,645	34,387	6.5	36.6	11.7
Guadalupe Fire Fighters	7	403,241	57,606	15.6	33.0	4.9
Guadalupe Police						
Hayden Police	5	198,410	39,682	2.1	37.2	3.6
Heber-Overgaard Fire Fighters	7	255,395	36,485	19.5	31.1	1.7
Highlands Fire District	15	678,534	45,236		39.7	6.8
Holbrook Police	17	613,114	36,066	-0.6	34.2	6.4
Hualapai Valley Fire Fighters	21	932,074	44,384	13.4	31.9	5.4
Kearny Police	4	136,956	34,239	-1.0	35.3	3.1
Kingman Fire Fighters	34	1,643,126	48,327	2.2	40.0	13.4
Kingman Police	45	1,990,304	44,229	3.1	33.7	7.8
La Paz County Attorney Investigators	1	42,535	42,535	-0.6	48.0	12.6
La Paz County Sheriffs	32	1,290,428	40,326	4.0	38.8	8.3
Lake Havasu City Fire Fighters	58	2,965,066	51,122	0.2	37.1	13.1
Lake Havasu City Police	70	3,505,672	50,081	5.6	36.3	8.9
Lakeside Fire Fighters	12	430,948	35,912	25.3	31.6	3.6

## Section Five: Valuation Data

Employer	No.	Annual Compensation	Average Compensation		Average	
			Amount	% Change	Age (Yrs.)	Service (Yrs.)
Laveen Fire District				-100.0		
Mammoth Police	4	141,425	35,356	2.2	38.8	6.2
Marana Police	56	2,508,348	44,792	0.6	36.3	7.3
Maricopa County Attorney Investigators	13	\$ 601,575	\$46,275	-4.8%	48.3	11.9
Maricopa County Park Rangers	17	735,838	43,285		40.2	9.4
Maricopa County Sheriffs	592	28,304,058	47,811	1.6	35.2	8.5
Mayer Fire District	6	237,833	39,639	1.4	34.2	2.1
Mesa Fire Fighters	332	22,823,965	68,747	5.2	36.7	10.9
Mesa Police	760	48,128,704	63,327	6.0	33.6	8.2
Miami Fire Fighters						
Miami Police	6	187,433	31,239	-8.3	33.0	6.2
Mohave County Sheriffs	76	3,035,539	39,941	-1.7	36.8	8.3
Mohave Valley Fire Fighters	16	584,461	36,529	8.5	39.4	8.0
Montezuma/Rimrock Fire Fighters	6	174,703	29,117	9.1	43.8	5.8
NAU Police	18	763,125	42,396	6.2	34.4	9.2
Navajo County Attorney Investigators	1	41,197	41,197	1.0	36.0	17.8
Navajo County Sheriffs	45	1,574,966	34,999	-3.6	38.2	7.4
Nogales Fire Fighters	41	1,445,666	35,260	0.4	32.7	8.5
Nogales Police	58	2,192,418	37,800	4.6	32.3	8.9
Northwest Fire District	115	5,253,381	45,682	7.0	33.0	7.0
Oro Valley Police	64	3,406,239	53,222	2.9	35.0	8.6
Page Fire Fighters	2	84,493	42,247	-2.0	37.5	1.8
Page Police	20	896,234	44,812	3.5	36.3	8.8
Paradise Valley Police	33	2,086,268	63,220	6.3	42.3	11.4
Parker Police	10	389,569	38,957	4.2	33.5	7.7
Patagonia Marshals	3	81,542	27,181	-7.6	41.7	1.4
Payson Fire Fighters	21	997,634	47,506	2.5	39.7	7.4
Payson Police	25	1,258,393	50,336	3.3	38.1	9.7
Peoria Fire Fighters	94	5,491,083	58,416	8.7	35.9	9.8
Peoria Police	121	6,880,797	56,866	9.7	35.1	8.4
Phoenix Fire Fighters	1,265	86,243,132	68,176	0.2	38.2	12.9
Phoenix Police	2,584	161,091,049	62,342	3.4	35.4	10.2
Picture Rocks Fire Fighters	15	463,286	30,886	8.9	36.7	6.3
Pima Community College Police	31	1,342,231	43,298	0.4	40.6	9.5
Pima County Attorney Investigators	5	257,551	51,510	1.7	50.2	16.1
Pima County Sheriffs	461	23,271,914	50,481	8.5	36.0	8.6
Pima Police	4	109,757	27,439	6.7	35.3	1.9
Pinal County Sheriffs	136	5,296,430	38,944	2.2	36.5	7.8
Pine-Strawberry Fire Fighters	12	595,198	49,600	16.2	42.9	9.0
Pinetop Fire Fighters	18	706,518	39,251	9.8	35.8	4.5
Pinetop-Lakeside Police	12	432,873	36,073	4.3	40.6	6.6
Prescott Fire Fighters	56	2,987,622	53,350	12.3	38.0	12.2
Prescott Police	59	2,929,780	49,657	6.7	34.2	9.6
Prescott Valley Police	37	1,557,554	42,096	12.2	31.6	6.4
Quartzsite Marshals	7	342,931	48,990	8.5	38.3	5.4
Rio Rico Fire District	9	344,355	38,262		36.6	3.8
Safford Police	16	580,966	36,310	-4.0	33.4	8.3
Sahuarita Police	6	233,586	38,931	18.1	35.2	5.2

## Section Five: Valuation Data

Employer	No.	Annual Compensation	Average Compensation		Average	
			Amount	% Change	Age (Yrs.)	Service (Yrs.)
Salt River Pima-Maricopa Fire Fighters	56	2,880,957	51,446	5.6	32.6	5.8
Salt River Pima-Maricopa Police	53	2,676,386	50,498	0.4	33.9	4.5
San Luis Fire Fighters	19	700,716	36,880	11.4	31.6	3.9
San Luis Police	31	\$ 1,290,178	\$41,619	7.8%	30.9	5.3
Santa Cruz County Sheriffs	36	1,350,664	37,518	2.0	32.6	6.5
Scottsdale Police	335	20,929,978	62,478	-1.1	34.7	8.7
Sedona Fire District	53	2,914,175	54,984	1.9	34.2	6.2
Sedona Police	21	979,856	46,660	7.1	35.2	7.9
Show Low Fire Fighters	8	303,932	37,992	38.7	32.8	2.7
Show Low Police	22	902,767	41,035	4.5	32.0	6.8
Sierra Vista Fire Fighters	33	1,724,823	52,267	4.5	37.3	11.8
Sierra Vista Police	54	2,790,103	51,669	5.4	35.5	8.1
Snowflake Police	11	389,228	35,384	8.6	37.5	8.8
Somerton Fire Fighters	14	512,467	36,605	9.1	27.3	5.2
Somerton Police	19	704,630	37,086	1.0	31.1	5.3
South Tucson Fire Fighters	13	533,735	41,057	3.8	31.9	6.0
South Tucson Police	24	960,614	40,026	5.2	37.3	5.4
Springerville Police	7	247,625	35,375	1.8	39.6	7.9
St. John's Police	6	217,824	36,304	13.4	33.5	5.2
Summit Fire District	19	804,419	42,338	9.2	36.6	6.7
Sun City Fire Fighters	62	3,655,777	58,964	4.7	36.2	10.0
Sun City West Fire District	54	3,215,989	59,555	13.4	34.7	5.6
Sun Lakes Fire District	30	1,673,417	55,781	1.9	35.6	6.9
Superior Police	8	243,067	30,383	7.7	38.8	5.3
Surprise Fire Fighters	52	2,565,135	49,330	3.3	31.2	4.8
Surprise Police	69	3,273,189	47,438	4.7	32.9	5.6
Taylor						
Tempe Fire Fighters	121	8,198,575	67,757	7.7	35.9	11.3
Tempe Police	323	20,023,353	61,992	9.4	33.5	8.4
Thatcher Police	10	423,196	42,320	3.8	38.6	14.3
Three Points Fire District	11	312,596	28,418	5.6	34.5	2.6
Tolleson Fire Fighters	21	1,092,072	52,003	5.3	36.9	7.5
Tolleson Police	19	862,795	45,410	2.3	35.4	6.8
Tombstone Marshals	7	233,302	33,329	15.9	42.6	4.2
Tri-City Fire District	4	129,578	32,395		42.5	3.9
Tubac Fire District	16	569,140	35,571	7.3	37.7	6.2
Tucson Airport Authority Fire Fighters	18	1,008,010	56,001	5.6	39.2	16.0
Tucson Airport Authority Police	26	1,407,552	54,137	6.2	37.3	8.1
Tucson Estates Fire Fighters						
Tucson Fire Fighters	469	25,778,335	54,964	-2.4	37.5	12.0
Tucson Police	935	51,204,340	54,764	3.4	37.0	10.4
U of A Police	42	1,918,167	45,671	4.4	33.2	7.1
Verde Valley Fire District	17	725,518	42,678	11.3	40.8	6.5
Wellton Police	3	102,214	34,071	-5.9	34.7	8.2
Wickenburg Police	11	431,106	39,191	-1.3	36.9	6.8
Willcox Police	12	466,738	38,895	-4.2	37.1	8.2
Williams Police	10	338,374	33,837	4.7	32.3	5.0
Winslow Fire Fighters	6	247,750	41,292	-0.4	42.2	14.7

Section Five: Valuation Data

Employer	No.	Annual Compensation	Average Compensation		Average	
			Amount	% Change	Age (Yrs.)	Service (Yrs.)
Winslow Police	27	985,660	36,506	5.7	31.4	4.4
Yavapai County Attorney Investigators	2	93,344	46,672	4.1	50.0	17.1
Yavapai County Sheriffs	105	4,318,078	41,125	4.4	35.6	7.1
Youngtown Police	8	\$ 299,488	\$37,436	0.8%	34.1	4.3
Yuma County Sheriffs	66	2,762,953	41,863	4.8	36.3	6.9
Yuma Fire Fighters	91	4,466,840	49,086	7.9	36.0	9.8
Yuma Police	138	6,766,977	49,036	8.3	35.2	8.2
<b>Totals</b>	<b>15,557</b>	<b>\$854,248,911</b>	<b>\$54,911</b>	<b>2.8%</b>	<b>36.9</b>	<b>9.4</b>



***Section Six:***

# ***Accounting Disclosures***



## Enrolled Actuaries and Consultants

**GASB Statement No. 25 Supplementary Information**

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, 2002
Actuarial Cost Method:	Individual Entry Age
Amortization method:	Level percent open
Remaining amortization period:	20 years
Asset valuation method:	Smoothed market value
Actuarial assumptions:	
Investment rate of return	9.00%
Projected salary increases*	6.5% - 9.5%
* Includes inflation at	5.5%

Membership data as of June 30, 2002, is indicated in Section Five of this report.

**Analysis of Funding Progress**

<b>Valuation Date</b> <b>June 30</b>	<b>(1)</b> <b>Valuation Value of Assets</b>	<b>(2)</b> <b>Actuarial Accrued Liability</b>	<b>(3)</b> <b>Percent Funded (1)/(2)</b>	<b>(4)</b> <b>Unfunded AAL (2)-(1)</b>	<b>(5)</b> <b>Annual Covered Payroll</b>	<b>(6)</b> <b>UAAL As a % Of Covered Payroll</b>
1997	\$2,915,172,697	\$2,533,435,124	115.1%	\$(381,737,573)	\$579,341,301	-%
1998	3,192,626,934	2,743,998,240	116.3	(448,628,694)	625,221,566	-
1999	3,709,250,860	3,082,201,971	120.3	(627,048,889)	682,184,396	-
2000	4,260,167,698	3,415,157,151	124.7	(845,010,547)	751,279,788	-
2001	4,661,941,486	3,674,758,173	126.9	(987,183,313)	826,739,742	-
<b>2002</b>	<b>4,684,386,470</b>	<b>4,144,211,267</b>	<b>113.0</b>	<b>(540,175,203)</b>	<b>854,248,911</b>	<b>-</b>

**Required Supplementary Information  
Schedule of Employer Contributions**

<b>Fiscal Year Ended <u>June 30</u></b>	<b>Annual Required <u>Contribution</u></b>	<b>Percent <u>Contributed</u></b>
1992	\$35,813,576	100.0%
1993	41,332,044	100.0%
1994	41,197,876	100.0%
1995	40,455,946	100.0%
1996	46,369,942	100.0%
1997	52,469,969	100.0%
1998	45,320,932	100.0%
1999	44,384,344	100.0%
2000	46,890,892	100.0%
2001	51,391,526	100.0%
2002	51,983,407	100.0%
<b>2003</b>	<b>40,491,398</b>	

*Actual required contribution dollar amount will be based on the recommended contribution rate and the actual pensionable payroll for the period.*

*Includes insurance premium tax, where applicable*

**Trend Information**

<b>Fiscal Year Ended <u>June 30</u></b>	<b>Annual Pension <u>Cost</u></b>	<b><u>Percent Contributed</u></b>	<b><u>Net Pension Obligation</u></b>
1995	\$40,455,946	100.0%	\$0
1996	46,369,942	100.0%	\$0
1997	52,469,969	100.0%	\$0
1998	45,320,932,	100.0%	\$0
1999	44,384,344,	100.0%	\$0
2000	46,890,892	100.0%	\$0
2001	51,391,526	100.0%	\$0
2002	<b>51,983,407</b>	<b>100.0%</b>	<b>\$0</b>



## Actuarial Accrued Liability – Valuation Assets – Amortization Payment

<u>Employer</u>	(1) <u>Actuarial</u> <u>Value of Assets</u>	(2) <u>Actuarial</u> <u>Acc Liability</u> <u>Entry Age</u>	(3) <u>Percent</u> <u>Funded</u> <u>(1)/(2)</u>	(4) <u>Unfunded</u> <u>AAAL (2)-(1)</u>	(5) <u>Annual</u> <u>Covered</u> <u>Payroll</u>	<u>(4)/(5)</u>
Apache County Sheriffs	\$ 3,317,524	\$ 3,998,022	83.0%	\$ 680,498	\$ 1,320,357	51.5%
Apache Junction Fire District	6,011,608	6,498,490	92.5%	486,882	3,659,544	13.3%
Apache Junction Police	9,152,732	8,476,313	108.0%	-676,419	2,423,243	0.0%
Arizona Attorney General Investigators	8,200,346	7,515,923	109.1%	-684,423	1,374,681	0.0%
Arizona Department of Liquor Licenses	2,530,927	1,654,482	153.0%	-876,445	913,475	0.0%
Arizona State Capitol Police	1,720,349	1,345,671	127.8%	-374,678	870,846	0.0%
Arizona State Parks	3,875,168	4,375,622	88.6%	500,454	1,588,798	31.5%
ASU Police	12,946,636	9,620,665	134.6%	-3,325,971	2,262,495	0.0%
Avondale Fire Fighters	3,037,180	2,707,219	112.2%	-329,961	1,942,617	0.0%
Avondale Police	4,673,499	5,390,454	86.7%	716,955	3,316,268	21.6%
Avra Valley Fire District	741,517	333,209	222.5%	-408,308	356,483	0.0%
Benson Police	1,551,710	1,290,066	120.3%	-261,644	433,260	0.0%
Bisbee Fire Fighters	3,992,589	4,665,678	85.6%	673,089	770,972	87.3%
Bisbee Police	2,679,937	3,474,121	77.1%	794,184	553,414	143.5%
Buckeye Fire Fighters	133,694	39,471	338.7%	-94,223	587,539	0.0%
Buckeye Police	1,852,130	1,945,201	95.2%	93,071	970,155	9.6%
Buckskin Fire Fighters	1,975,038	1,809,310	109.2%	-165,728	373,075	0.0%
Bullhead City Fire Fighters	12,016,900	9,199,258	130.6%	-2,817,642	3,154,031	0.0%
Bullhead City Police	11,029,107	10,028,658	110.0%	-1,000,449	3,603,370	0.0%
Camp Verde Fire District	209,502	606,255	34.6%	396,753	602,240	65.9%
Camp Verde Marshals	1,330,238	1,140,723	116.6%	-189,515	609,110	0.0%
Casa Grande Fire Fighters	7,372,478	7,266,996	101.5%	-105,482	1,566,269	0.0%
Casa Grande Police	12,256,912	12,301,470	99.6%	44,558	2,978,744	1.5%
Central Yavapai Fire Fighters	10,164,663	9,551,693	106.4%	-612,970	3,164,892	0.0%
Chandler Fire Fighters	30,500,426	25,675,248	118.8%	-4,825,178	9,239,086	0.0%
Chandler Police	42,359,413	39,896,296	106.2%	-2,463,117	16,650,975	0.0%
Chino Valley Fire District	1,544,410	1,389,724	111.1%	-154,686	758,016	0.0%
Chino Valley Police	1,605,736	1,217,362	131.9%	-388,374	681,866	0.0%
Clarksdale Police	865,827	723,398	119.7%	-142,429	273,872	0.0%
Clifton Fire Fighters	532,360	277,980	191.5%	-254,380	32,070	0.0%
Clifton Police	467,508	147,272	317.4%	-320,236	211,387	0.0%
Cochise County Sheriffs	13,500,548	14,521,441	93.0%	1,020,893	2,709,845	37.7%
Coconino County Sheriffs	13,401,246	14,329,961	93.5%	928,715	2,658,275	34.9%
Coolidge Police	2,921,388	2,509,868	116.4%	-411,520	1,153,793	0.0%
Cottonwood Fire Fighters	1,103,232	731,724	150.8%	-371,508	404,141	0.0%
Cottonwood Police	2,527,292	3,009,163	84.0%	481,871	842,397	57.2%
D.E.M.A.	4,681,223	4,129,837	113.4%	-551,386	1,094,739	0.0%
Daisy Mountain Fire District	1,536,131	1,329,356	115.6%	-206,775	1,550,983	0.0%

<b>Employer</b>	<b>(1) Actuarial Value of Assets</b>	<b>(2) Actuarial Acc Liability Entry Age</b>	<b>(3) Percent Funded (1)/(2)</b>	<b>(4) Unfunded AAL (2)-(1)</b>	<b>(5) Annual Covered Payroll</b>	<b>(4)/(5)</b>
Department of Public Safety	525,966,002	445,962,618	117.9%	-80,003,384	52,816,832	0.0%
Diamond Star Fire Fighters	\$77,214	\$203,335	38.0%	\$126,121	\$191,146	66.0%
Douglas Fire Fighters	6,146,334	6,223,211	98.8%	76,877	952,421	8.1%
Douglas Police	6,917,570	6,033,230	114.7%	-884,340	1,266,717	0.0%
Drexel Heights Fire Fighters	5,243,605	3,534,319	148.4%	-1,709,286	2,043,388	0.0%
Eagar Police	\$ 736,124	\$ 690,299	106.6%	\$ -45,825	\$ 335,988	0.0%
El Mirage Fire Fighters	777,400	585,083	132.9%	-192,317	507,113	0.0%
El Mirage Police	1,589,024	1,288,282	123.3%	-300,742	1,639,299	0.0%
Eloy Police	2,370,383	1,758,073	134.8%	-612,310	1,265,800	0.0%
Flagstaff Fire Fighters	33,288,928	27,957,056	119.1%	-5,331,872	3,944,841	0.0%
Flagstaff Police	23,377,239	22,375,146	104.5%	-1,002,093	4,415,016	0.0%
Florence Fire Fighters	304,530	156,522	194.6%	-148,008	343,076	0.0%
Florence Police	1,710,115	821,849	208.1%	-888,266	589,329	0.0%
Flowing Wells	74,684	0	100.0%	-74,684	0	0.0%
Fort McDowell Tribal Fire Department	445,439	127,924	348.2%	-317,515	493,249	0.0%
Fort McDowell Tribal Police Dept.	215,148	628,246	34.2%	413,098	806,496	51.2%
Fort Mohave Mesa Fire District	3,401,638	2,758,149	123.3%	-643,489	1,222,473	0.0%
Fountain Hills Marshals	591,957	557,666	106.1%	-34,291	549,166	0.0%
Fredonia Marshals	58,413	49,068	119.0%	-9,345	126,000	0.0%
Fry Fire Fighters	6,544,874	6,038,799	108.4%	-506,075	1,386,427	0.0%
Game & Fish Department	46,042,673	49,286,178	93.4%	3,243,505	6,319,795	51.3%
Gila County Sheriffs	5,702,845	5,244,701	108.7%	-458,144	1,364,567	0.0%
Gila River Fire Fighters	1,774,003	2,199,090	80.7%	425,087	2,916,349	14.6%
Gila River Police	1,719,257	1,802,027	95.4%	82,770	3,144,582	2.6%
Gilbert Fire Fighters	5,578,563	4,223,217	132.1%	-1,355,346	4,385,184	0.0%
Gilbert Police	13,894,950	13,764,387	100.9%	-130,563	7,307,339	0.0%
Glendale Fire Fighters	54,913,705	44,743,479	122.7%	-10,170,226	9,468,223	0.0%
Glendale Police	69,747,421	71,892,043	97.0%	2,144,622	17,147,003	12.5%
Globe Fire Fighters	3,152,968	2,688,846	117.3%	-464,122	615,198	0.0%
Globe Police	2,859,118	3,293,592	86.8%	434,474	845,184	51.4%
Golden Valley Fire District	1,359,597	855,443	158.9%	-504,154	554,871	0.0%
Golder Ranch Fire District	3,981,999	3,534,732	112.7%	-447,267	2,414,527	0.0%
Goodyear Fire Fighters	2,317,792	1,676,967	138.2%	-640,825	2,110,215	0.0%
Goodyear Police	4,223,705	3,895,803	108.4%	-327,902	2,470,604	0.0%
Graham County Sheriffs	1,407,175	1,488,462	94.5%	81,287	607,113	13.4%
Green Valley Fire District	2,025,154	2,601,983	77.8%	576,829	1,826,287	31.6%
Greenlee County Attorney Investigators	29,158	0	100.0%	-29,158	0	0.0%
Greenlee County Sheriffs	2,051,947	1,584,623	129.5%	-467,324	412,645	0.0%
Guadalupe Fire Fighters	344,686	314,863	109.5%	-29,823	403,241	0.0%
Guadalupe Police	318,061	0	100.0%	-318,061	0	0.0%
Hayden Police	94,447	142,860	66.1%	48,413	198,410	24.4%
Heber-Overgaard Fire Fighters	99,546	68,244	145.9%	-31,302	255,395	0.0%
Highlands Fire District	232,521	897,022	25.9%	664,501	678,534	97.9%
Holbrook Police	2,673,638	2,674,632	100.0%	994	613,114	0.2%

<b>Employer</b>	<b>(1) Actuarial Value of Assets</b>	<b>(2) Actuarial Acc Liability Entry Age</b>	<b>(3) Percent Funded (1)/(2)</b>	<b>(4) Unfunded AAL (2)-(1)</b>	<b>(5) Annual Covered Payroll</b>	<b>(4)/(5)</b>
Hualapai Valley Fire Fighters	1,359,549	976,143	139.3%	-383,406	932,074	0.0%
Kearny Police	248,652	344,280	72.2%	95,628	136,956	69.8%
Kingman Fire Fighters	6,690,306	6,444,031	103.8%	-246,275	1,643,126	0.0%
Kingman Police	8,160,674	7,869,110	103.7%	-291,564	1,990,304	0.0%
La Paz County Attorney Investigators	121,191	51,284	236.3%	-69,907	42,535	0.0%
La Paz County Sheriffs	5,250,603	5,391,985	97.4%	141,382	1,290,428	11.0%
Lake Havasu City Fire Fighters	19,571,310	16,119,443	121.4%	-3,451,867	2,965,066	0.0%
Lake Havasu City Police	\$ 12,826,024	\$ 11,742,345	109.2%	\$ -1,083,679	\$ 3,505,672	0.0%
Lakeside Fire Fighters	242,910	231,228	105.1%	-11,682	430,948	0.0%
Laveen Fire District	48,816	0	100.0%	-48,816	0	0.0%
Mammoth Police	33,658	201,836	16.7%	168,178	141,425	118.9%
Marana Police	5,479,157	3,757,279	145.8%	-1,721,878	2,508,348	0.0%
Maricopa County Attorney Invest.	5,103,607	4,731,965	107.9%	-371,642	601,575	0.0%
Maricopa County Park Rangers	1,544,652	1,563,810	98.8%	19,158	735,838	2.6%
Maricopa County Sheriffs	175,902,396	155,304,316	113.3%	-20,598,080	28,304,058	0.0%
Mayer Fire District	238,896	219,092	109.0%	-19,804	237,833	0.0%
Mesa Fire Fighters	130,154,053	110,765,627	117.5%	-19,388,426	22,823,965	0.0%
Mesa Police	191,200,945	170,390,053	112.2%	-20,810,892	48,128,704	0.0%
Miami Fire Fighters	372,598	235,502	158.2%	-137,096	0	0.0%
Miami Police	535,376	488,606	109.6%	-46,770	187,433	0.0%
Mohave County Sheriffs	14,357,706	11,473,155	125.1%	-2,884,551	3,035,539	0.0%
Mohave Valley Fire Fighters	1,743,261	988,740	176.3%	-754,521	584,461	0.0%
Montezuma/Rimrock Fire Fighters	222,396	84,703	262.6%	-137,693	174,703	0.0%
NAU Police	4,781,205	3,785,692	126.3%	-995,513	763,125	0.0%
Navajo County Attorney Investigators	206,725	78,917	262.0%	-127,808	41,197	0.0%
Navajo County Sheriffs	7,727,219	6,863,694	112.6%	-863,525	1,574,966	0.0%
Nogales Fire Fighters	5,620,294	6,433,418	87.4%	813,124	1,445,666	56.2%
Nogales Police	7,629,614	6,892,895	110.7%	-736,719	2,192,418	0.0%
Northwest Fire District	10,576,281	9,444,307	112.0%	-1,131,974	5,253,381	0.0%
Oro Valley Police	6,565,301	6,327,848	103.8%	-237,453	3,406,239	0.0%
Page Fire Fighters	407,435	527,575	77.2%	120,140	84,493	142.2%
Page Police	3,017,374	2,027,620	148.8%	-989,754	896,234	0.0%
Paradise Valley Police	9,338,401	9,637,887	96.9%	299,486	2,086,268	14.4%
Parker Police	1,384,491	871,389	158.9%	-513,102	389,569	0.0%
Patagonia Marshals	101,922	23,172	439.8%	-78,750	81,542	0.0%
Payson Fire Fighters	2,781,627	2,159,709	128.8%	-621,918	997,634	0.0%
Payson Police	4,423,105	4,980,232	88.8%	557,127	1,258,393	44.3%
Peoria Fire Fighters	16,152,081	12,847,367	125.7%	-3,304,714	5,491,083	0.0%
Peoria Police	17,509,065	17,231,298	101.6%	-277,767	6,880,797	0.0%
Phoenix Fire Fighters	616,332,057	537,154,927	114.7%	-79,177,130	86,243,132	0.0%
Phoenix Police	1,075,570,861	938,885,835	114.6%	-136,685,026	161,091,049	0.0%
Picture Rocks Fire Fighters	1,079,558	638,256	169.1%	-441,302	463,286	0.0%
Pima Community College Police	3,676,578	3,079,754	119.4%	-596,824	1,342,231	0.0%
Pima County Attorney Investigators	1,454,382	1,253,300	116.0%	-201,082	257,551	0.0%

<b>Employer</b>	<b>(1) Actuarial Value of Assets</b>	<b>(2) Actuarial Acc Liability Entry Age</b>	<b>(3) Percent Funded (1)/(2)</b>	<b>(4) Unfunded AAL (2)-(1)</b>	<b>(5) Annual Covered Payroll</b>	<b>(4)/(5)</b>
Pima County Sheriffs	135,706,395	120,043,833	113.0%	-15,662,562	23,271,914	0.0%
Pima Police	153,709	47,470	323.8%	-106,239	109,757	0.0%
Pinal County Sheriffs	22,225,840	18,309,799	121.4%	-3,916,041	5,296,430	0.0%
Pine-Strawberry Fire Fighters	1,220,940	1,265,296	96.5%	44,356	595,198	7.5%
Pinetop Fire Fighters	403,764	658,580	61.3%	254,816	706,518	36.1%
Pinetop-Lakeside Police	1,902,489	1,966,319	96.8%	63,830	432,873	14.7%
Prescott Fire Fighters	18,204,580	16,956,679	107.4%	-1,247,901	2,987,622	0.0%
Prescott Police	13,387,130	15,476,798	86.5%	2,089,668	2,929,780	71.3%
Prescott Valley Police	2,976,378	2,638,806	112.8%	-337,572	1,557,554	0.0%
Quartzsite Marshals	\$ 395,843	\$ 353,907	111.8%	\$ -41,936	\$ 342,931	0.0%
Rio Rico Fire District	119,297	213,963	55.8%	94,666	344,355	27.5%
Safford Police	3,483,036	3,843,609	90.6%	360,573	580,966	62.1%
Sahuarita Police	258,718	176,727	146.4%	-81,991	233,586	0.0%
Salt River Pima-Maricopa Fire Fighters	2,360,753	3,209,648	73.6%	848,895	2,880,957	29.5%
Salt River Pima-Maricopa Police	1,613,470	3,191,748	50.6%	1,578,278	2,676,386	59.0%
San Luis Fire Fighters	660,294	558,971	118.1%	-101,323	700,716	0.0%
San Luis Police	1,758,999	1,607,932	109.4%	-151,067	1,290,178	0.0%
Santa Cruz County Sheriffs	4,208,233	4,995,933	84.2%	787,700	1,350,664	58.3%
Scottsdale Police	94,783,569	80,996,941	117.0%	-13,786,628	20,929,978	0.0%
Sedona Fire District	3,970,531	3,499,079	113.5%	-471,452	2,914,175	0.0%
Sedona Police	1,890,452	1,314,436	143.8%	-576,016	979,856	0.0%
Show Low Fire Fighters	247,446	162,050	152.7%	-85,396	303,932	0.0%
Show Low Police	2,558,345	2,243,212	114.0%	-315,133	902,767	0.0%
Sierra Vista Fire Fighters	9,727,058	5,538,330	175.6%	-4,188,728	1,724,823	0.0%
Sierra Vista Police	12,770,292	12,196,446	104.7%	-573,846	2,790,103	0.0%
Snowflake Police	985,357	1,219,955	80.8%	234,598	389,228	60.3%
Somerton Fire Fighters	554,976	693,179	80.1%	138,203	512,467	27.0%
Somerton Police	756,756	1,115,589	67.8%	358,833	704,630	50.9%
South Tucson Fire Fighters	1,930,057	1,641,797	117.6%	-288,260	533,735	0.0%
South Tucson Police	1,682,666	3,425,739	49.1%	1,743,073	960,614	181.5%
Springerville Police	558,521	373,752	149.4%	-184,769	247,625	0.0%
St. John's Police	245,618	129,916	189.1%	-115,702	217,824	0.0%
Summit Fire District	1,043,229	1,039,634	100.3%	-3,595	804,419	0.0%
Sun City Fire Fighters	9,183,036	10,177,301	90.2%	994,265	3,655,777	27.2%
Sun City West Fire District	4,341,172	3,648,860	119.0%	-692,312	3,215,989	0.0%
Sun Lakes Fire District	3,213,475	2,574,879	124.8%	-638,596	1,673,417	0.0%
Superior Police	723,718	468,700	154.4%	-255,018	243,067	0.0%
Surprise Fire Fighters	3,263,216	1,999,033	163.2%	-1,264,183	2,565,135	0.0%
Surprise Police	5,250,973	4,453,508	117.9%	-797,465	3,273,189	0.0%
Taylor	1,688	0	100.0%	-1,688	0	0.0%
Tempe Fire Fighters	67,919,632	58,288,980	116.5%	-9,630,652	8,198,575	0.0%
Tempe Police	81,813,815	81,417,297	100.5%	-396,518	20,023,353	0.0%
Thatcher Police	1,920,397	1,432,262	134.1%	-488,135	423,196	0.0%
Three Points Fire District	200,622	81,424	246.4%	-119,198	312,596	0.0%

<u>Employer</u>	(1) <u>Actuarial</u> <u>Value of Assets</u>	(2) <u>Actuarial</u> <u>Acc Liability</u> <u>Entry Age</u>	(3) <u>Percent</u> <u>Funded</u> <u>(1)/(2)</u>	(4) <u>Unfunded</u> <u>AAL (2)-(1)</u>	(5) <u>Annual</u> <u>Covered</u> <u>Payroll</u>	<u>(4)/(5)</u>
Tolleson Fire Fighters	2,012,368	1,596,941	126.0%	-415,427	1,092,072	0.0%
Tolleson Police	2,567,338	2,209,712	116.2%	-357,626	862,795	0.0%
Tombstone Marshals	391,593	117,106	334.4%	-274,487	233,302	0.0%
Tri-City Fire District	118,782	87,677	135.5%	-31,105	129,578	0.0%
Tubac Fire District	750,725	518,744	144.7%	-231,981	569,140	0.0%
Tucson Airport Authority Fire Fighters	5,566,778	5,202,989	107.0%	-363,789	1,008,010	0.0%
Tucson Airport Authority Police	4,261,292	5,417,204	78.7%	1,155,912	1,407,552	82.1%
Tucson Estates Fire Fighters	0	0	0.0%	0	0	0.0%
Tucson Fire Fighters	235,242,306	209,177,703	112.5%	-26,064,603	25,778,335	0.0%
Tucson Police	330,170,175	289,567,946	114.0%	-40,602,229	51,204,340	0.0%
U of A Police	7,745,962	7,196,225	107.6%	-549,737	1,918,167	0.0%
Verde Valley Fire District	\$ 1,491,096	\$ 832,094	179.2%	\$ -659,002	\$ 725,518	0.0%
Wellton Police	259,422	206,946	125.4%	-52,476	102,214	0.0%
Wickenburg Police	1,132,220	1,614,328	70.1%	482,108	431,106	111.8%
Willcox Police	1,424,365	1,363,625	104.5%	-60,740	466,738	0.0%
Williams Police	1,108,465	745,344	148.7%	-363,121	338,374	0.0%
Winslow Fire Fighters	3,878,088	1,153,977	336.1%	-2,724,111	247,750	0.0%
Winslow Police	3,648,699	2,627,918	138.8%	-1,020,781	985,660	0.0%
Yavapai County Attorney Investigators	305,988	341,269	89.7%	35,281	93,344	37.8%
Yavapai County Sheriffs	12,560,975	14,232,671	88.3%	1,671,696	4,318,078	38.7%
Youngtown Police	839,043	537,538	156.1%	-301,505	299,488	0.0%
Yuma County Sheriffs	12,669,735	11,753,780	107.8%	-915,955	2,762,953	0.0%
Yuma Fire Fighters	30,698,121	29,078,933	105.6%	-1,619,188	4,466,840	0.0%
Yuma Police	38,521,463	30,716,985	125.4%	-7,804,478	6,766,977	0.0%
<b>Totals</b>	<b>\$4,684,386,470</b>	<b>\$4,144,211,267</b>	<b>113.0%</b>	<b>\$(540,175,203)</b>	<b>\$854,248,911</b>	<b>0.0%</b>