

ATTACHMENT H

**ARIZONA PUBLIC SAFETY PERSONNEL
RETIREMENT SYSTEM**

PHOENIX POLICE DEPT. (022)

ACTUARIAL VALUATION
AS OF JUNE 30, 2022

CONTRIBUTIONS APPLICABLE TO THE
PLAN/FISCAL YEAR ENDING JUNE 30, 2024



FOSTER & FOSTER
ACTUARIES AND CONSULTANTS

III. LIABILITY SUPPORT

Liabilities and Funded Ratios by Benefit - Tiers 1 & 2

	June 30, 2022	June 30, 2021
Pension		
Actuarial Present Value of Benefits (PVB)		
Retirees and Beneficiaries	\$ 2,479,004,213	\$ 2,254,283,675
DROP Members	529,097,058	535,459,212
Vested Members	10,051,229	6,782,698
Active Members	<u>1,250,630,624</u>	<u>1,327,660,640</u>
Total Actuarial Present Value of Benefits	4,268,783,124	4,124,186,225
Actuarial Accrued Liability (AAL)		
All Inactive Members	3,018,152,500	2,796,525,585
Active Members	<u>957,381,236</u>	<u>1,005,962,605</u>
Total Actuarial Accrued Liability	3,975,533,736	3,802,488,190
Actuarial Value of Assets (AVA)	1,671,512,140	1,573,595,759
Unfunded Actuarial Accrued Liability	2,304,021,596	2,228,892,431
PVB Funded Ratio (AVA / PVB)	39.2%	38.2%
AAL Funded Ratio (AVA / AAL)	42.0%	41.4%
Health		
Actuarial Present Value of Benefits (PVB)		
Retirees and Beneficiaries	\$ 25,287,707	\$ 23,032,558
DROP Members	7,405,775	7,714,960
Active Members	<u>21,142,368</u>	<u>22,426,920</u>
Total Present Value of Benefits	53,835,850	53,174,438
Actuarial Accrued Liability (AAL)		
All Inactive Members	32,693,482	30,747,518
Active Members	<u>16,244,444</u>	<u>16,994,764</u>
Total Actuarial Accrued Liability	48,937,926	47,742,282
Actuarial Value of Assets (AVA)	72,606,016	71,305,101
Unfunded Actuarial Accrued Liability	(23,668,090)	(23,562,819)
PVB Funded Ratio (AVA / PVB)	134.9%	134.1%
AAL Funded Ratio (AVA / AAL)	148.4%	149.4%

See next page
for combined totals
for Tiers 1, 2, 3

Health liabilities were increased by \$13,692 under the lateral transfer methodology. Pension liabilities were not impacted.

Liabilities and Funded Ratios by Benefit - Tier 3

	June 30, 2022	June 30, 2021
Pension		
Actuarial Present Value of Benefits (PVB)		
Retirees and Beneficiaries	\$ 1,029,102	\$ 1,755,887
Vested Members	1,125,417	552,693
Active Members	<u>113,986,050</u>	<u>103,433,722</u>
Total Actuarial Present Value of Benefits	116,140,569	105,742,302
Actuarial Accrued Liability (AAL)		
All Inactive Members	2,154,519	2,308,580
Active Members	<u>20,441,170</u>	<u>14,496,279</u>
Total Actuarial Accrued Liability	22,595,689	16,804,859
Actuarial Value of Assets (AVA)	25,356,675	16,429,295
Unfunded Actuarial Accrued Liability	(2,760,986)	375,564
PVB Funded Ratio (AVA / PVB)	21.8%	15.5%
AAL Funded Ratio (AVA / AAL)	112.2%	97.8%
Health		
Actuarial Present Value of Benefits (PVB)		
Retirees and Beneficiaries	25,363	0
Active Members	<u>1,357,463</u>	<u>1,178,754</u>
Total Present Value of Benefits	1,382,826	1,178,754
Actuarial Accrued Liability (AAL)		
All Inactive Members	25,363	0
Active Members	<u>275,487</u>	<u>186,631</u>
Total Actuarial Accrued Liability	300,850	186,631
Actuarial Value of Assets (AVA)	606,537	392,026
Unfunded Actuarial Accrued Liability	(305,687)	(205,395)
PVB Funded Ratio (AVA / PVB)	43.9%	33.3%
AAL Funded Ratio (AVA / AAL)	201.6%	210.1%

The liabilities shown on this page are the liabilities for Phoenix Police Dept. Tier 3 members.

All Police Tiers, Combined Totals

Total Actuarial Accrued Liability (AAL)	\$3,998,129,425
Total Actuarial Value of Assets (AVA)	1,696,868,815
Total Unfunded Actuarial Accrued Liability	2,301,260,610
AAL Funded Ratio (AVA / AAL)	42.44%

ARIZONA PUBLIC SAFETY PERSONNEL RETIREMENT SYSTEM

PHOENIX FIRE DEPT. (021)

ACTUARIAL VALUATION
AS OF JUNE 30, 2022

CONTRIBUTIONS APPLICABLE TO THE
PLAN/FISCAL YEAR ENDING JUNE 30, 2024



FOSTER & FOSTER
ACTUARIES AND CONSULTANTS

III. LIABILITY SUPPORT

Liabilities and Funded Ratios by Benefit - Tiers 1 & 2

	June 30, 2022	June 30, 2021
Pension		
Actuarial Present Value of Benefits (PVB)		
Retirees and Beneficiaries	\$ 1,159,113,928	\$ 1,085,250,356
DROP Members	331,120,886	306,933,470
Vested Members	2,689,622	2,023,619
Active Members	<u>955,949,937</u>	<u>933,223,215</u>
Total Actuarial Present Value of Benefits	2,448,874,373	2,327,430,660
Actuarial Accrued Liability (AAL)		
All Inactive Members	1,492,924,436	1,394,207,445
Active Members	<u>670,461,541</u>	<u>663,269,939</u>
Total Actuarial Accrued Liability	2,163,385,977	2,057,477,384
Actuarial Value of Assets (AVA)	971,671,898	893,915,879
Unfunded Actuarial Accrued Liability	1,191,714,079	1,163,561,505
PVB Funded Ratio (AVA / PVB)	39.7%	38.4%
AAL Funded Ratio (AVA / AAL)	44.9%	43.4%
Health		
Actuarial Present Value of Benefits (PVB)		
Retirees and Beneficiaries	\$ 13,719,400	\$ 13,072,668
DROP Members	3,920,048	3,632,292
Active Members	<u>12,860,741</u>	<u>12,810,544</u>
Total Present Value of Benefits	30,500,189	29,515,504
Actuarial Accrued Liability (AAL)		
All Inactive Members	17,639,448	16,704,960
Active Members	<u>9,054,898</u>	<u>9,090,665</u>
Total Actuarial Accrued Liability	26,694,346	25,795,625
Actuarial Value of Assets (AVA)	41,337,162	40,439,107
Unfunded Actuarial Accrued Liability	(14,642,816)	(14,643,482)
PVB Funded Ratio (AVA / PVB)	135.5%	137.0%
AAL Funded Ratio (AVA / AAL)	154.9%	156.8%

See next page
for combined totals
for Tiers 1, 2, 3

Health liabilities were increased by \$23,454 under the lateral transfer methodology. Pension liabilities were not impacted.

Liabilities and Funded Ratios by Benefit - Tier 3

	June 30, 2022	June 30, 2021
Pension		
Actuarial Present Value of Benefits (PVB)		
Retirees and Beneficiaries	\$ 163,872	\$ 0
Vested Members	60,367	4,331
Active Members	<u>78,265,428</u>	<u>56,045,010</u>
Total Actuarial Present Value of Benefits	78,489,667	56,049,341
Actuarial Accrued Liability (AAL)		
All Inactive Members	224,239	4,331
Active Members	<u>9,771,673</u>	<u>6,065,465</u>
Total Actuarial Accrued Liability	9,995,912	6,069,796
Actuarial Value of Assets (AVA)	10,743,385	6,324,616
Unfunded Actuarial Accrued Liability	(747,473)	(254,820)
PVB Funded Ratio (AVA / PVB)	13.7%	11.3%
AAL Funded Ratio (AVA / AAL)	107.5%	104.2%
Health		
Actuarial Present Value of Benefits (PVB)		
Retirees and Beneficiaries	0	0
Active Members	<u>1,080,762</u>	<u>681,676</u>
Total Present Value of Benefits	1,080,762	681,676
Actuarial Accrued Liability (AAL)		
All Inactive Members	0	0
Active Members	<u>142,304</u>	<u>78,359</u>
Total Actuarial Accrued Liability	142,304	78,359
Actuarial Value of Assets (AVA)	190,109	112,038
Unfunded Actuarial Accrued Liability	(47,805)	(33,679)
PVB Funded Ratio (AVA / PVB)	17.6%	16.4%
AAL Funded Ratio (AVA / AAL)	133.6%	143.0%

The liabilities shown on this page are the liabilities for Phoenix Fire Dept. Tier 3 members.

All Fire Tiers, Combined Total

Total Actuarial Accrued Liability (AAL)	\$2,173,381,889
Total Actuarial Value of Assets (AVA)	982,415,283
Total Unfunded Actuarial Accrued Liability	1,190,966,606
AAL Funded Ratio (AVA / AAL)	45.20%