Arkansas Local Fire and Police Pension and Relief Funds

Summary of Actuarial Valuation Data and Results As of December 31, 2022

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June 5, 2023

Arkansas Fire & Police Pension Review Board 620 West Third Suite 200 Little Rock, AR 72201

Ladies and Gentlemen:

We have completed the actuarial valuations of the 41 Fire and Police Pension Funds as of December 31, 2022. This report contains summary information from those valuations, as well as comparable information from the December 31, 2019, 2020 and 2021 valuations.

The following table shows the progress of the funds over the last several years:

	12/31/2019	12/31/2020	12/31/2021	12/31/2021
Plans Valued	65	60	51	41
Number of Active Members	12	10	4	3
Number on DROP	1	0	0	0
Number of Recipients	1,054	867	767	665
cover				
Assets	116,136,560	106,327,323	104,946,588	99,791,943
Unfunded Actuarial Accrued	47,368,430	36,463,669	35,363,920	39,133,205
Liability				
Market Value of Assets	124,919,966	116,783,006	118,860,273	95,260,282
Unfunded AL on Market Value	38,585,023	26,007,986	21,450,235	43,664,866
Percent of Liability Funded:				
Police	80%	81%	84%	82%
Full Paid Fire	59%	62%	61%	58%
Volunteer & Part-Paid Fire	96%	101%	102%	99%
Reported Employer Contribution				
as a Percent of Actuarially				
Determined Contributions				
Police	58%	56%	61%	67%
Full Paid Fire	51%	54%	54%	51%
Volunteer & Part-Paid Fire	128%	148%	148%	151%

Osborn, Carreiro & Associates, Inc.

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FORMAT OF REPORT

Following this cover letter, our report contains the following exhibits:

- EXHIBIT 1 Summarizes various information as of December 31, 2022, broken out by Police, Full Paid Fire, and Volunteer Fire.
- EXHIBIT 2 Compares the December 31, 2022 valuation results with those of December 31, 2021, 2020 and 2019.
- EXHIBIT 3 Develops a "funded status" and summarizes information for each "funded status".
- EXHIBIT 4 Summarizes the number of plans by various funding criteria.
- EXHIBIT 5 Summary of the Rates of Return.
- EXHIBIT 6 Lists certain financial information and risk indicators for the plans valued December 31, 2022.

VALUATION REPORT CHANGES

There were no major changes in methodology or presentation in the valuation reports this year. We continue to present the required GASB disclosures for all plans as appendices to the valuation report. We accommodated several requests for expedited valuations and additional audit information for locations which file GASB-compliant audits. All valuation reports were completed and submitted to the PRB by the end of May.

INVESTMENT RETURNS

The PRB decided to return to a single valuation discount rate beginning with the 2013 valuations. That single discount rate is 5%. Due to the market in 2022, none of the 41 plans exceeded the valuation rate of 5% in 2022 on a market value basis. However, as usual, there was significant variance between plans: the returns ranged from about 2% (only two plans had positive returns) and -20%. The market value weighted average return for 2022 was -13.1%

Exhibit 5 shows the 2022 (market value) investment returns as well as the five year and ten year average returns. In general, the smallest plans had the worst history of investment earnings and some did not have professional investment advice. If plans do not achieve a long term average investment return of 5% or more, the ultimate cost of the plan will be greater than the value of the liabilities shown in the valuation report. We noted this information in the valuation reports at the end of the Exhibit 3 financial reports as well as included it as one of the plan's risk indicators.

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OUTLOOK FOR INSOLVENT PLANS

Exhibit 6 lists some financial and actuarial information for each plan. We have disclosed both the Valuation Assets and the Market Value of Assets. One can see in detail the large number of plans in Status D and below, as well as the amount of unfunded liability associated with those plans. This is an area we have discussed with the Board in detail. This deserves continued attention as over 75% of the total liability is associated with plans with a status of D or lower. Beginning with the 2014 Summary Report, we aligned the projected years before assets are depleted (crossover point) with the status definitions discussed above. Therefore, all status E plans will show "10-20 years," that is, indicated for At Risk designation. There are five (up from one last year) plans with Status E. Status F plans will show "Less than 10 years," that is, indicated for Projected Insolvent designation. The status D plans all show "20+ years," although there are varying levels of funding risk within that category.

Rogers Fire met the criteria for inclusion as a Projected Insolvent plans under ACA §24-11-208: The Board should consider their inclusion. Batesville Fire (who recently added a millage) and Fayetteville Fire passed the cash flow test, but with such a low funded percentage they could easily return to Projected Insolvent status. Marion Fire has consolidated this past year. These two plans bear continued monitoring, but we have provided them with good information to help solve their issues.

DATA RECEIVED FROM PLANS

The results of these valuations are based on the financial and participant data supplied by each plan through the PRB staff. We did not audit this data, although we did review it for reasonableness and consistency.

If you have any questions or comments, please feel free to contact us.

Sincerely,

Jody Carreiro, ASA, MAAA, FCA, EA

Actuary

Contact: JodyC@oca-actuaries.com

EXHIBIT 1

Arkansas Municipal Police and Fire Pension and Relief Funds

Summary of Valuation Data and Results December 31, 2022

	_	Police	-	Fire*	_	Volunteer Fire*	_	Total
Plans Valued		6		13		35		41
Active Members		0		0		3		3
Active Payroll	\$	0	\$	78,340	\$	0	\$	78,340
DROP Members		0		0		0		0
DROP Annual Benefits	\$	0	\$	0	\$	0	\$	0
Retired Members and Beneficiaries		153		212		300		665
Annual Benefits	\$	5,176,292	\$	5,680,920	\$	1,013,392	\$	11,870,604
Retirant, Beneficiary &								
DROP Accrued Liability	\$	63,474,504	\$	65,099,262	\$	10,170,409	\$	138,744,174
Active Member								
Accrued Liability	\$	0	\$	0	\$	180,974	\$	180,974
Total Actuarial Accrued Liability	\$	63,474,504	\$	65,099,262	\$	10,351,383	\$	138,925,148
Assets Applied	.	51,824,522	<u>,</u>	37,726,741	,	10,240,681	4	99,791,943
Unfunded Actuarial Accrued Liability % Funded	\$	11,649,982 82%	\$	27,372,521 58%	\$	110,702 99%	\$	39,133,205 72%
Based on the Market Value of Assets								
Total Actuarial Accrued Liability	\$	63,474,504	\$	65,099,262	\$	10,351,383	\$	138,925,148
Assets Applied		49,081,700		36,203,513		9,975,069		95,260,282
Unfunded Actuarial Accrued Liability % Funded	\$	14,392,804 77%	\$	28,895,749 56%	\$	376,313 96%	\$	43,664,866 69%
Employer Contributions								
Computed	\$	4,979,533	\$	6,190,258	\$	200,641	\$	11,370,432
Reported	\$	3,357,872	\$	3,179,105	\$	302,802	\$	6,839,779
% Covered		67%		51%		151%		60%

^{* 13} fire plans covering both paid and volunteer members are included in the number of plans valued. Some summary data in this report was prepared treating each mixed fund as two separate funds.

EXHIBIT 2

Arkansas Municipal Police and Fire Pension and Relief Funds

Comparison of Valuation Results

POLICE FUNDS

		12/31/2019	12/31/2020	12/31/2021	12/31/2022	2022 <u>% Change</u>
Plans Valued		7	7	6	6	0%
Active Members		0	0	0	0	0%
Active Payroll	\$	0 \$	0 \$	0 \$	0	0%
DROP Members Retired Members		0	0	0	0	
and Beneficiaries		182	170	158	153	-3%
Retirant, Beneficiary & DROP Accrued Liability	\$	70,766,407 \$	68,588,224 \$	61,930,949 \$	63,474,504	2%
Active Member Accrued Liability	\$	0 \$	0 \$	0 \$	0	0%
Total Actuarial Accrued Liability	\$	70,766,407 \$	68,588,224 \$	61,930,949 \$	63,474,504	2%
Assets Applied	\$	54,170,782 \$	54,565,000 \$	50,435,791 \$	51,824,522	3%
% Funded		77%	80%	81%	82%	
Unfunded Actuarial Accrued Liability	\$	16,595,626 \$	14,023,224 \$	11,495,158 \$	11,649,982	1%
Employer Contributions Computed Reported	\$ \$	5,910,989 \$ 3,865,670 \$	5,581,825 \$ 3,223,377 \$	5,235,711 \$ 2,930,826 \$		-5% 15%
% Covered		65%	58%	56%	67%	

Arkansas Municipal Police and Fire Pension and Relief Funds

Comparison of Valuation Results

FULL PAID FIRE FUNDS

		<u>12/31/2019</u> <u>12/31/2020</u> <u>2</u>		12/31/2021	12/31/2022	2022 <u>% Change</u>
Plans Valued		21	19	16	13	-19%
Active Members		3	2	1	0	-100%
Active Payroll	\$	190,257 \$	101,184 \$	60,324 \$	78,340	30%
DROP Members		1	1	0	0	N/A
Retired Members and Beneficiaries		308	278	219	212	-3%
Retirant, Beneficiary & DROP Accrued Liability	\$	84,288,879 \$	78,541,099 \$	65,543,355 \$	65,099,262	-1%
Active Member Accrued Liability	\$	1,568,773 \$	940,810 \$	595,256 \$	0	-100%
Total Actuarial Accrued Liability	\$	85,857,652 \$	79,481,909 \$	66,138,610 \$	65,099,262	-2%
Assets Applied	\$	49,482,587 \$	46,751,880 \$	41,066,381 \$	37,726,741	-8%
% Funded		58%	59%	62%	58%	
Unfunded Actuarial Accrued Liability	\$	36,375,066 \$	32,730,029 \$	25,072,229 \$	27,372,521	9%
Employer Contributions Computed Reported	\$ \$	8,274,481 \$ 4,432,084 \$	7,485,038 \$ 3,813,921 \$	5,689,949 \$ 3,046,203 \$	6,190,258 3,179,105	9% 4%
% Covered		54%	51%	54%	51%	

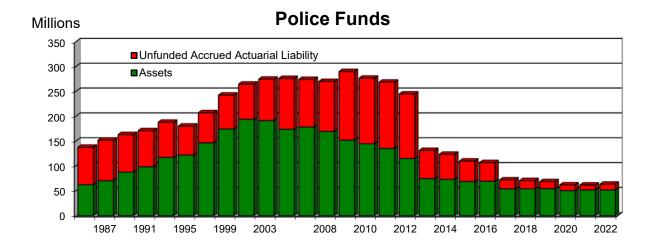
EXHIBIT 2

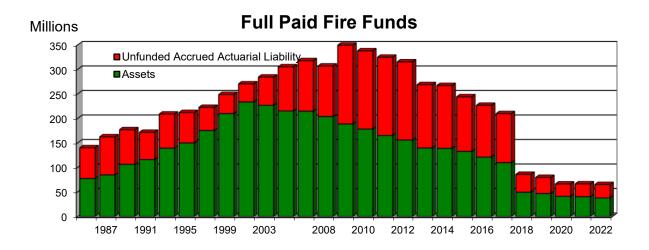
Arkansas Municipal Police and Fire Pension and Relief Funds

Comparison of Valuation Results

VOLUNTEER FIRE FUNDS

		12/31/2019	12/31/2020	12/31/2021	12/31/2022	2022 <u>% Change</u>
Plans Valued		64	58	54	35	-35%
Active Members		13	10	9	3	-67%
Active Payroll	\$	0 \$	0 \$	0 \$	0	
DROP Members		0	0	0	0	N/A
Retired Members and Beneficiaries		637	517	490	300	-39%
Retirant, Beneficiary & DROP Accrued Liability	\$	16,423,844 \$	14,821,064 \$	14,147,621 \$	10,170,409	-28%
Active Member Accrued Liability	\$	720,585 \$	613,792 \$	573,812 \$	180,974	-68%
Total Actuarial Accrued Liability	\$	17,144,429 \$	15,434,856 \$	14,721,433 \$	10,351,383	-30%
Assets Applied	\$	16,310,131 \$	14,819,680 \$	14,825,151 \$	10,240,681	-31%
% Funded		95%	96%	101%	99%	
Unfunded Actuarial Accrued Liability	\$	834,298 \$	615,176 \$	-103,718 \$	110,702	-207%
Employer Contributions		440 700 4	222 527 4	272.454.4	202 544	2504
Computed Reported	\$ \$	449,789 \$ 463,111 \$	322,627 \$ 413,052 \$	270,151 \$ 399,844 \$	200,641 302,802	-26% -24%
% Covered		103%	128%	148%	151%	





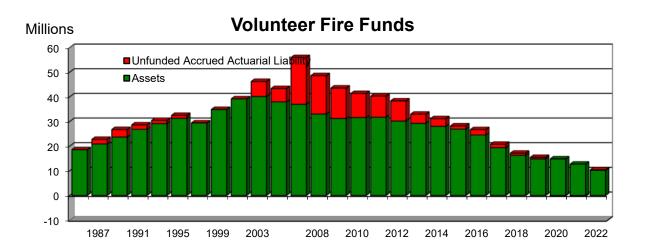
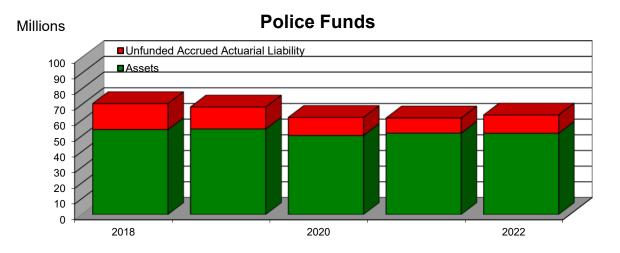
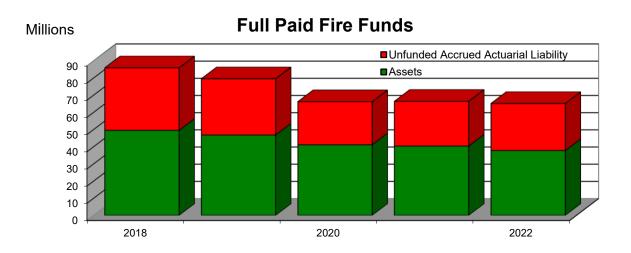
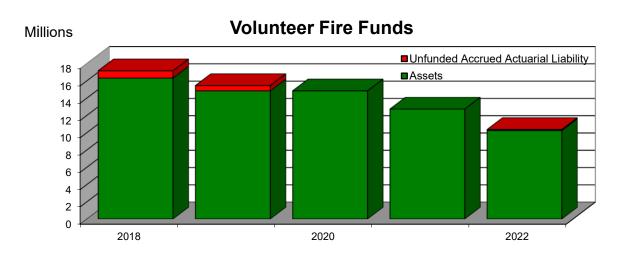


EXHIBIT 2Most Recent Five Years







Arkansas Municipal Police and Fire Pension and Relief Funds

Summary by Funding Status

This exhibit gives a summary of certain plan information classified by a funding status which is based on standards of actuarial soundness. Funding Status is defined here for use by the board in understanding the risks facing the various plans. We changed definitions for status D and below beginning with the December 31, 2015 report.

The Board has adopted a definition of actuarial soundness, which is based on two tests:

- 1. <u>Contribution Test:</u> The actual contributions for the previous year exceeded the actuarially calculated contribution (fully funded in five years).
- 2. <u>Ratio Tests:</u> The assets allocated to cover accrued actuarial liabilities for active participants (i.e. the "short condition test" for category (3)) must be greater than 100% OR the "funded percentage" (total assets divided by total Actuarial Accrued Liabilities) must be at least 97%.

In order to further evaluate potential funding risks, we have assigned a "Funding Status" to each plan. The "Funding Status" for each plan is determined as follows:

- A. (Fully Funded) The calculated contribution amount is \$0. A plan in this classification should remain adequately funded even with no further contributions.
- B. (Actuarially Sound) A plan in this classification meets both the contribution test and the ratio test of the definition of actuarial soundness. These plans meet the Boards' definition of actuarial soundness.
- C. (On Track) The plans in this classification pass the contribution test, but do <u>NOT</u> pass the ratio tests, which are defined above. A plan in this classification should *eventually* meet both standards of actuarial soundness.
- D. (Not Actuarially Sound) The plans in this category did <u>NOT</u> pass the contribution test. (They may or may not have passed the ratio tests.) These plans will likely require more contributions in order to pay promised benefits.
- E. (At Risk) These plans are projected to deplete their assets in the next *ten to twenty years*. The initial risk indicator suggests that these plans should be considered for the At Risk designation.
- F. (Projected Insolvent) These plans are projected to deplete their assets in the *next ten years*. The initial risk indicator suggests that these plans should be considered for the Projected Insolvent designation.

The Board Rule which defines actuarial soundness has an alternative definition for some plans. The plan may prove actuarial soundness through a cash flow or alternate cash flow study defined in the Rule. These statuses are based on the initial risk indicator and do not reflect any of these cash flow studies.

EXHIBIT 3

Arkansas Municipal Police and Fire Pension Funds Summary of Funded Status December 31, 2021 Valuations

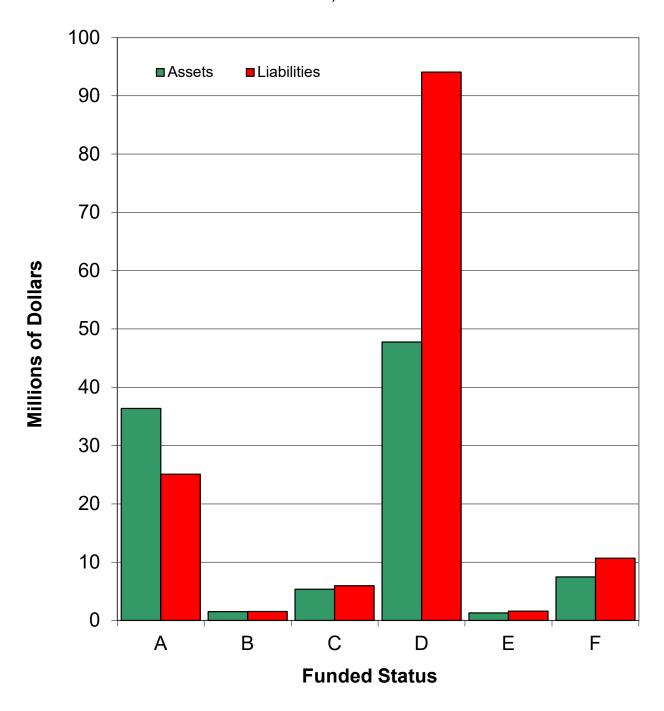


EXHIBIT 3

Summary of Funding Status

POLICE FUNDS

					Unfunded	
Funding Status	Number of Plans	Total Actives & Retirees	Actuarial Accrued Liability	Assets	Actuarial Accrued Liability	Contribution Shortfall
Α	2	32	19,925,658	30,360,269	-10,434,612	0
В	0	0	0	0	0	0
С	1	9	3,059,710	2,726,768	332,942	0
D	3	109	40,489,135	18,737,484	21,751,651	2,099,899
E	0	0	0	0	0	0
F	0	0	0	0	0	0
Total	6	150	63,474,504	51,824,522	11,649,982	2,099,899

PAID/MIXED FIRE FUNDS

					Unfunded	
		Total	Actuarial		Actuarial	
Funding	Number	Actives &	Accrued		Accrued	Contribution
Status	of Plans	Retirees	Liability	Assets	Liability	Shortfall
А	1	11	1,812,195	1,895,375	-83,180	0
В	0	0	0	0	0	0
С	2	32	1,168,643	1,056,266	112,377	0
D	9	195	53,313,352	28,814,005	24,499,348	2,461,292
Е	0	0	0	0	0	0
F	1	35	10,673,044	7,483,074	3,189,970	676,241
Total	13	273	66,967,235	39,248,720	27,718,516	3,137,533

EXHIBIT 3

Summary of Funding Status

VOLUNTEER FIRE FUNDS

					Unfunded	
		Total	Actuarial		Actuarial	
Funding	Number	Actives &	Accrued		Accrued	Contribution
Status	of Plans	Retirees	Liability	Assets	Liability	Shortfall
Α	11	100	3,348,050	4,125,757	-777,707	0
В	1	16	1,552,812	1,520,846	31,966	0
С	3	36	1,729,418	1,571,514	157,904	0
D	2	21	260,090	202,723	57,367	4,577
E	5	47	1,593,039	1,297,862	295,177	65,465
F	0	0	0	0	0	0
Total	22	220	8,483,409	8,718,702	-235,293	70,042

ALL FUNDS

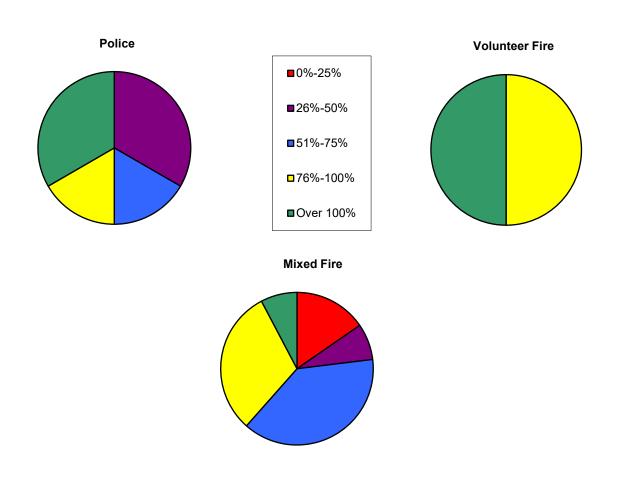
Funding Status	Number of Plans	Total Actives & Retirees	Actuarial Accrued Liability	Assets	Unfunded Actuarial Accrued Liability	Contribution Shortfall
А	14	143	25,085,903	36,381,401	-11,295,498	0
В	1	16	1,552,812	1,520,846	31,966	0
С	6	77	5,957,772	5,354,548	603,224	0
D	14	325	94,062,578	47,754,212	46,308,366	4,565,768
E	5	47	1,593,039	1,297,862	295,177	65,465
F	1	35	10,673,044	7,483,074	3,189,970	676,241
Total	41	643	138,925,148	99,791,943	39,133,205	5,307,474

Arkansas Municipal Police and Fire Pension and Relief Funds 12/31/2022

Percentage of Actuarial Accrued Liabilities Covered by Reported Allocated Assets (Funded Percentage)

Number of Plans

Type of Plan	<u>0%-25%</u>	<u>26%-50%</u>	<u>51%-75%</u>	<u>76%-100%</u>	<u>Over 100%</u>
Police	0	2	1	1	2
Fire (Volunteer Only)	0	0	0	11	11
Fire (Mixed)	2	1	5	4	1
Fire (Full Paid)	0	0	0	0	0



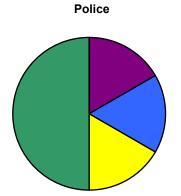
Arkansas Municipal Police and Fire Pension and Relief Funds

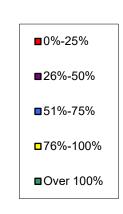
12/31/2022

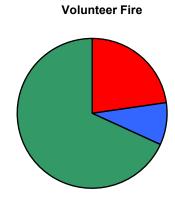
2022 Reported Contributions as Percentages of Computed Contributions

Number of Plans

Type of Plan	<u>0%-25%</u>	<u>26%-50%</u>	<u>51%-75%</u>	<u>76%-100%</u>	<u>Over 100%</u>
Police	0	1	1	1	3
Fire (Volunteer Only)	5	0	2	0	15
Fire (Mixed)	2	2	4	2	3
Fire (Full Paid)	0	0	0	0	0







Mixed Fire

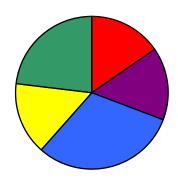


EXHIBIT 4 (continued)

Comparison of Percentages of Accrued Liabilities Covered by Assets and 2022 Reported Contributions as Percent of Computed Contributions

Total of All Plans

Number of Plans

Funded Percentage

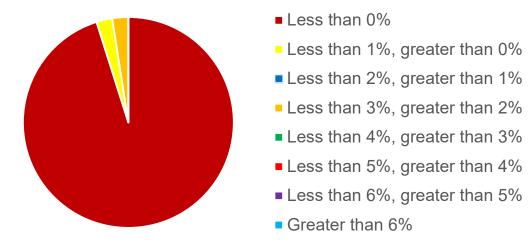
Contribution Ratio	0%-25%	26%-50%	51%-75%	76%-100%	Over 100%
0%-25%	0	0	1	6	0
26%-50%	1	1	0	1	0
51%-75%	1	2	2	2	0
76%-100%	0	0	3	0	0
Over 100%	0	0	0	7	14

Arkansas Municipal Police and Fire Funds

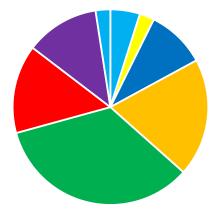
Average Market Rates of Returns 2013-2022 Based on Summary Results of the December 31, 2022 Actuarial Valuations

	2021 Rate	5-year	10-year
	<u>of Return</u>	<u>Average</u>	<u>Average</u>
Less than 0%	39	2	0
Less than 1%, greater than 0%	1	1	2
Less than 2%, greater than 1%	0	4	2
Less than 3%, greater than 2%	1	8	1
Less than 4%, greater than 3%	0	14	9
Less than 5%, greater than 4%	0	6	10
Less than 6%, greater than 5%	0	5	8
Greater than 6%	0	1	9

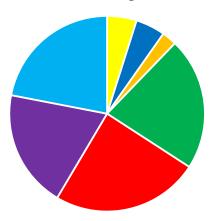
2022 Market Investment Returns



Five Year Average Return



Ten Year Average Return



Arkansas Municipal Police and Fire Pension and Relief Funds

Selected Financial Information by Plan

This exhibit contains selected financial and actuarial information for each plan that reported for December 31, 2022. The mixed fire plans are shown as one plan on a single line.

The information shown in this exhibit:

- (1) City or fire protection district.
- (2) Type of plan i.e., police officers, full-paid firefighters, volunteer/part paid firefighters, or a mixed plan covering both volunteers and full-paid firefighters.
- (3) Assets. We have shown both the Valuation Assets and the Market Value of Assets.
- (4) Unfunded Actuarial Accrued Liability, which is based on the Valuation Assets.
- (5) Number of individuals included. This number includes active members as well as retirees, beneficiaries, and participants on DROP.
- (6) Actuarially Computed Contribution. This is the calculated contribution amount from each valuation report.
- (7) Actual 2022 Contribution. These are the actual amounts contributed by the city from its sources; generally: millage, premium tax, employer match, and percentage of fines, for police plans.
- (8) Funded Status. See Exhibit 3 for a complete description of the six "grades".
- (9) Projected Years until all Assets Depleted. Based on the projection used to determine whether a "crossover point" exists for GASB purposes. This is the number of years until the plan depletes its assets. These categories are related to the Funded Status and are used to identify plans which may need further attention.
- (10) Risk Indicators. These four indicators are included in the cover letters of the valuation reports. They range from 1 (least risk) to 5 (most risk); in order, a, b, c, and d correspond to: funding percentage risk, market-return risk, contribution risk, and future crossover risk, respectively.

Risk Level	Funded Percentage	10-year Market Rate of Return	Contribution Actual/Recommend	Crossover Point
5	<60%	<3%	<25%	<10 yrs.
4	60%-75%	3%-4%	25%-50%	10-20 yrs.
3	75%-90%	4%-5%	50%-75%	>20 yrs.
2	90%-110%	5%-6%	75%-100%	No Crossover
1	>110%	>6%	>100%	And Act. Sound

Arkansas Municipal Police and Fire Pension and Relief Funds

Based on the December 31, 2022 Actuarial Valuation

	Type of Plan	Market Value Assets as of 12/31/2022	Valuation Assets as of 12/31/2022	Unfunded Actuarial Liability	Number of Individuals Covered	Actuarially Computed Contribution	Actual 2022 Contribution	Funded Status	Projected Years until all Assets Depleted	Risk <u>Indicators</u> <u>a b c d</u>
Alma	Volunteer Fire	707,183	683,515	77,908	10	17,566	43,541	С	*	3 1 1 2
Arkadelphia	Mixed Fire	504,765	382,392	544,758	16	122,830	72,579	D	*	5 3 3 2
Ashdown	Volunteer Fire	629,607	715,524	(154,899)	12	0	2,800	Α	*	1 2 1 1
Batesville	Mixed Fire	364,564	368,650	2,378,798	15	536,360	281,853	D	*	5 5 3 2
Brinkley	Mixed Fire	593,771	529,677	119,565	7	26,959	0	D	20+	3 1 5 3
Dardanelle	Volunteer Fire	641,334	635,723	(99,083)	10	0	34,577	Α	*	1 4 1 1
Dermott	Volunteer Fire	313,434	320,340	(5,336)	13	0	8,872	Α	*	2 1 1 1
Dumas	Volunteer Fire	441,561	426,278	130,211	10	29,359	24	Е	10-20	3 4 5 4
Earle	Volunteer Fire	204,079	179,692	55,976	8	12,621	0	E	10-20	3 5 5 4
Elaine	Volunteer Fire	176,755	199,374	(40,548)	6	0	3,713	Α	*	1 4 1 1
Eureka Springs	Mixed Fire	675,908	703,159	91,835	19	20,707	44,890	С	*	3 2 1 2
Fayetteville	Mixed Fire	1,702,542	2,086,016	11,762,960	40	2,652,258	1,114,390	D	*	5 4 4 2
Fayetteville	Paid Police	5,679,717	5,380,068	9,877,139	39	2,227,052	1,066,125	D	*	5 2 4 2
Flippin	Volunteer Fire	211,430	212,939	(50,169)	6	0	6,765	Α	*	1 3 1 1
Fordyce	Volunteer Fire	528,459	557,642	25,996	14	5,861	14,616	С	*	2 2 1 2
Foreman	Volunteer Fire	184,038	212,152	3,840	9	866	0	E	10-20	2 1 5 4
Glenwood	Volunteer Fire	167,668	169,087	49,983	9	11,270	350	E	10-20	3 3 5 4
Harrison	Mixed Fire	3,843,448	3,708,612	2,084,419	17	469,985	236,772	D	*	4 1 3 2
Harrison	Paid Police	2,710,192	2,726,768	332,942	9	75,070	114,993	С	*	3 1 1 2
Норе	Mixed Fire	1,789,837	1,895,375	(83,180)	11	0	87,640	Α	*	2 5 1 1
Hughes	Volunteer Fire	152,762	180,180	(19,233)	8	0	0	Α	*	1 2 1 3
Jacksonville	Mixed Fire	5,608,570	5,536,175	2,111,602	31	476,114	375,405	D	*	4 4 2 2
Jacksonville	Paid Police	5,899,363	6,455,082	(189,498)	15	0	350,701	Α	*	2 4 1 1
Judsonia	Volunteer Fire	159,901	174,229	(19,603)	10	0	0	Α	*	1 4 1 1
Lepanto	Volunteer Fire	104,943	101,565	28,527	11	6,432	4,559	D	*	3 5 3 2
Lonoke	Volunteer Fire	457,172	517,943	(7,265)	9	0	20,968	Α	*	2 3 1 1
Manila	Volunteer Fire	328,265	330,357	53,999	12	12,175	13,414	С	*	3 3 1 2

b) 10-Year Market Return Risk

Arkansas Municipal Police and Fire Pension and Relief Funds

Based on the December 31, 2022 Actuarial Valuation

		Market Value	Valuation	Unfunded	Number of	Actuarially	Actual		Projected Years	Risk
		Assets as of	Assets as of	Actuarial	Individuals	Computed	2022	Funded	until all Assets	<u>Indicators</u>
	Type of Plan	12/31/2022	12/31/2022	Liability	Covered	Contribution	Contribution	Status	Depleted	<u>a b c d</u>
Morrilton	Volunteer Fire	1,531,416	1,520,846	31,966	16	7,208	44,634	В	*	2 1 1 1
						,	,		*	
Mountainburg	Volunteer Fire	101,158	101,158	28,840	10	6,503	3,799	D	•	_
Nashville	Volunteer Fire	296,812	310,653	55,167	11	12,439	716	E	10-20	3 3 5 4
Osceola	Mixed Fire	2,651,453	2,751,945	861,055	14	194,147	83,784	D	*	3 3 4 2
Prairie Grove	Volunteer Fire	276,139	286,617	(45,173)	8	0	0	Α	*	1 4 1 1
Rogers	Mixed Fire	6,775,982	7,483,074	3,189,970	35	719,260	43,019	F	Less than 10	4 4 5 5
Rogers	Paid Police	22,198,386	23,905,187	(10,245,114)	17	0	87,615	Α	*	1 2 1 1
Siloam Springs	Mixed Fire	3,351,787	3,230,884	1,205,044	14	271,708	145,126	D	*	4 1 3 2
Springdale	Mixed Fire	9,521,380	10,219,654	3,431,147	41	773,639	752,799	D	*	4 1 2 2
Springdale	Paid Police	8,129,325	8,858,387	4,169,172	32	940,046	868,168	D	*	4 3 2 2
Texarkana	Paid Police	4,464,717	4,499,030	7,705,340	38	1,737,365	870,270	D	*	5 2 3 2
Waldron	Volunteer Fire	219,499	224,670	(70,010)	8	0	6,000	Α	*	1 2 1 1
Warren	Mixed Fire	337,021	353,107	20,542	13	4,632	18,170	С	*	2 3 1 2
Yellville	Volunteer Fire	623,939	658,218	(266,387)	10	0	16,132	Α	*	1 3 1 1
Totals:		95,260,282	99,791,943	39,133,205	643	11,370,432	6,839,779		Key:	Least Risk 1
Noto	Risk Indicators are	the metrics is alved	ad in the cover	lottor of the A	nnual Actuar	ial Valuation fo	r aach Lacal Diam			2
Note:							ir each Local Plan			3
	a) Funding Percentage Risk c) Recommended Contribution Risk							4		

d) Future Crossover Point Risk

Most Risk