

**Arkansas Local Fire and Police
Pension and Relief Funds**

Summary of
Actuarial Valuation Data and Results
As of December 31, 2020

Osborn, Carreiro & Associates, Inc.

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June 1, 2021

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 60 Fire and Police Pension Funds as of December 31, 2020. This report contains summary information from those valuations, as well as comparable information from the December 31, 2017, 2018 and 2019 valuations.

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

	<u>12/31/2017</u>	<u>12/31/2018</u>	<u>12/31/2019</u>	<u>12/31/2020</u>
Plans Valued	82	71	65	60
Number of Active Members	19	16	12	10
Number on DROP	2	1	1	0
Number of Recipients	1,562	1,127	1,054	891
Assets	183,130,253	119,963,499	116,136,560	106,327,323
Unfunded Actuarial Accrued Liability	119,317,001	53,804,989	47,368,430	36,463,669
Market Value of Assets	188,985,897	116,123,169	124,919,966	116,783,006
Unfunded AL on Market Value	113,461,358	57,645,319	38,585,023	26,007,986
Percent of Liability Funded:				
Police	75%	77%	80%	81%
Full Paid Fire	52%	58%	59%	62%
Volunteer & Part-Paid Fire	93%	95%	96%	101%
Reported Employer Contribution as a Percent of Actuarially Determined Contributions				
Police	64%	65%	58%	56%
Full Paid Fire	45%	54%	51%	54%
Volunteer & Part-Paid Fire	100%	103%	128%	148%

FORMAT OF REPORT

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

- EXHIBIT 1 – Summarizes various information as of December 31, 2020, broken out by Police, Full Paid Fire, and Volunteer Fire.
- EXHIBIT 2 – Compares the December 31, 2020 valuation results with those of December 31, 2019, 2018 and 2017.
- 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, 2020.

INVESTMENT RETURNS

The PRB decided to return to a single valuation discount rate beginning with the 2013 valuations. That single discount rate is 5%. 50 of the 60 plans exceeded the valuation rate of 5% in 2020 on a market value basis. However, as usual, there was significant variance between plans: three plans earned below 0% to a gain of 24% based on market value of assets. The market value weighted average return for 2020 was about 11.25%

Exhibit 5 shows the 2020 (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 most 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.

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 about 72% 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 two (down from eight) 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.

We believe there are no new Projected Insolvent plans under ACA §24-11-208: Batesville (who recently added a millage) passed the cash flow test, but with such a low funded percentage can easily return to Projected Insolvent status. Marion Fire continues to meet the criteria. Fayetteville Fire, which tested not to deplete assets in 2019 due to good investment returns and some additional income, again fails the cash flow test. All three plans bear continued monitoring, but we have provided all with good information to help solve their issues.

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 for locations which file GASB-compliant audits. All valuation reports were completed and submitted to the PRB by the end of May.

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.

We returned a few plan reports because of missing or incorrect data. The PRB staff was extremely helpful in solving data issues and correcting demographic information.

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, 2020

	Police	Fire*	Volunteer Fire*	Total
Plans Valued	6	16	54	60
Active Members	0	1	9	10
Active Payroll	\$ 0	\$ 60,324	\$ 0	\$ 60,324
DROP Members	0	0	0	0
DROP Annual Benefits	\$ 0	\$ 0	\$ 0	\$ 0
Retired Members and Beneficiaries	160	225	506	891
Annual Benefits	\$ 5,265,860	\$ 5,673,742	\$ 1,416,757	\$ 12,356,360
Retirant, Beneficiary & DROP Accrued Liability	\$ 61,930,949	\$ 65,543,355	\$ 14,147,621	\$ 141,621,924
Active Member Accrued Liability	\$ 0	\$ 595,256	\$ 573,812	\$ 1,169,068
Total Actuarial Accrued Liability	\$ 61,930,949	\$ 66,138,610	\$ 14,721,433	\$ 142,790,992
Assets Applied	50,435,791	41,066,381	14,825,151	106,327,323
Unfunded Actuarial Accrued Liability	\$ 11,495,158	\$ 25,072,229	\$ -103,718	\$ 36,463,669
% Funded	81%	62%	101%	74%
Based on the Market Value of Assets				
Total Actuarial Accrued Liability	\$ 61,930,949	\$ 66,138,610	\$ 14,721,433	\$ 142,790,992
Assets Applied	53,953,248	46,260,833	16,568,925	116,783,006
Unfunded Actuarial Accrued Liability	\$ 7,977,701	\$ 19,877,777	\$ -1,847,492	\$ 26,007,986
% Funded	87%	70%	113%	82%
Employer Contributions				
Computed	\$ 5,235,711	\$ 5,689,949	\$ 270,151	\$ 11,195,811
Reported	\$ 2,930,826	\$ 3,046,203	\$ 399,844	\$ 6,376,873
% Covered	56%	54%	148%	57%

* 16 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

	<u>12/31/2017</u>	<u>12/31/2018</u>	<u>12/31/2019</u>	<u>12/31/2020</u>	<u>2020 % Change</u>
Plans Valued	7	7	7	6	-14%
Active Members	0	0	0	0	0%
Active Payroll	\$ 0	\$ 0	\$ 0	\$ 0	0%
DROP Members	0	0	0	0	
Retired Members and Beneficiaries	182	182	170	160	-6%
Retirant, Beneficiary & DROPP Accrued Liability	\$ 71,930,025	\$ 70,766,407	\$ 68,588,224	\$ 61,930,949	-10%
Active Member Accrued Liability	\$ 0	\$ 0	\$ 0	\$ 0	0%
Total Actuarial Accrued Liability	\$ 71,930,025	\$ 70,766,407	\$ 68,588,224	\$ 61,930,949	-10%
Assets Applied	\$ 54,099,493	\$ 54,170,782	\$ 54,565,000	\$ 50,435,791	-8%
% Funded	75%	77%	80%	81%	
Unfunded Actuarial Accrued Liability	\$ 17,830,532	\$ 16,595,626	\$ 14,023,224	\$ 11,495,158	-18%
Employer Contributions Computed	\$ 6,028,817	\$ 5,910,989	\$ 5,581,825	\$ 5,235,711	-6%
Reported	\$ 3,838,316	\$ 3,865,670	\$ 3,223,377	\$ 2,930,826	-9%
% Covered	64%	65%	58%	56%	

EXHIBIT 2

Arkansas Municipal Police and Fire Pension and Relief Funds

Comparison of Valuation Results

FULL PAID FIRE FUNDS

	<u>12/31/2017</u>	<u>12/31/2018</u>	<u>12/31/2019</u>	<u>12/31/2020</u>	<u>2020 % Change</u>
Plans Valued	26	21	19	16	-16%
Active Members	4	3	2	1	-50%
Active Payroll	\$ 231,016	\$ 190,257	\$ 101,184	\$ 60,324	-40%
DROP Members	2	1	1	0	-100%
Retired Members and Beneficiaries	628	308	278	225	-19%
Retirant, Beneficiary & DROP Accrued Liability	\$ 207,656,625	\$ 84,288,879	\$ 78,541,099	\$ 65,543,355	-17%
Active Member Accrued Liability	\$ 2,118,001	\$ 1,568,773	\$ 940,810	\$ 595,256	-37%
Total Actuarial Accrued Liability	\$ 209,774,625	\$ 85,857,652	\$ 79,481,909	\$ 66,138,610	-17%
Assets Applied	\$ 109,657,355	\$ 49,482,587	\$ 46,751,880	\$ 41,066,381	-12%
% Funded	52%	58%	59%	62%	
Unfunded Actuarial Accrued Liability	\$ 100,117,270	\$ 36,375,066	\$ 32,730,029	\$ 25,072,229	-23%
Employer Contributions Computed	\$ 22,660,826	\$ 8,274,481	\$ 7,485,038	\$ 5,689,949	-24%
Reported	\$ 10,158,747	\$ 4,432,084	\$ 3,813,921	\$ 3,046,203	-20%
% Covered	45%	54%	51%	54%	

EXHIBIT 2

Arkansas Municipal Police and Fire Pension and Relief Funds

Comparison of Valuation Results

VOLUNTEER FIRE FUNDS

	<u>12/31/2017</u>	<u>12/31/2018</u>	<u>12/31/2019</u>	<u>12/31/2020</u>	2020 <u>% Change</u>
Plans Valued	74	64	58	54	-7%
Active Members	15	13	10	9	-10%
Active Payroll	\$ 0	\$ 0	\$ 0	0	
DROP Members	0	0	0	0	N/A
Retired Members and Beneficiaries	752	637	517	506	-2%
Retirant, Beneficiary & DROP Accrued Liability	\$ 19,810,359	\$ 16,423,844	\$ 14,821,064	\$ 14,147,621	-5%
Active Member Accrued Liability	\$ 932,245	\$ 720,585	\$ 613,792	\$ 573,812	-7%
Total Actuarial Accrued Liability	\$ 20,742,605	\$ 17,144,429	\$ 15,434,856	\$ 14,721,433	-5%
Assets Applied	\$ 19,373,405	\$ 16,310,131	\$ 14,819,680	\$ 14,825,151	0%
% Funded	93%	95%	96%	101%	
Unfunded Actuarial Accrued Liability	\$ 1,369,200	\$ 834,298	\$ 615,176	\$ -103,718	-117%
Employer Contributions Computed	\$ 568,692	\$ 449,789	\$ 322,627	\$ 270,151	-16%
Reported	\$ 570,436	\$ 463,111	\$ 413,052	\$ 399,844	-3%
% Covered	100%	103%	128%	148%	

EXHIBIT 3

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. Contribution Test: The actual contributions for the previous year exceeded the actuarially calculated contribution (fully funded in five years).
2. Ratio Tests: 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 NOT 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 NOT 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, 2020 Valuations

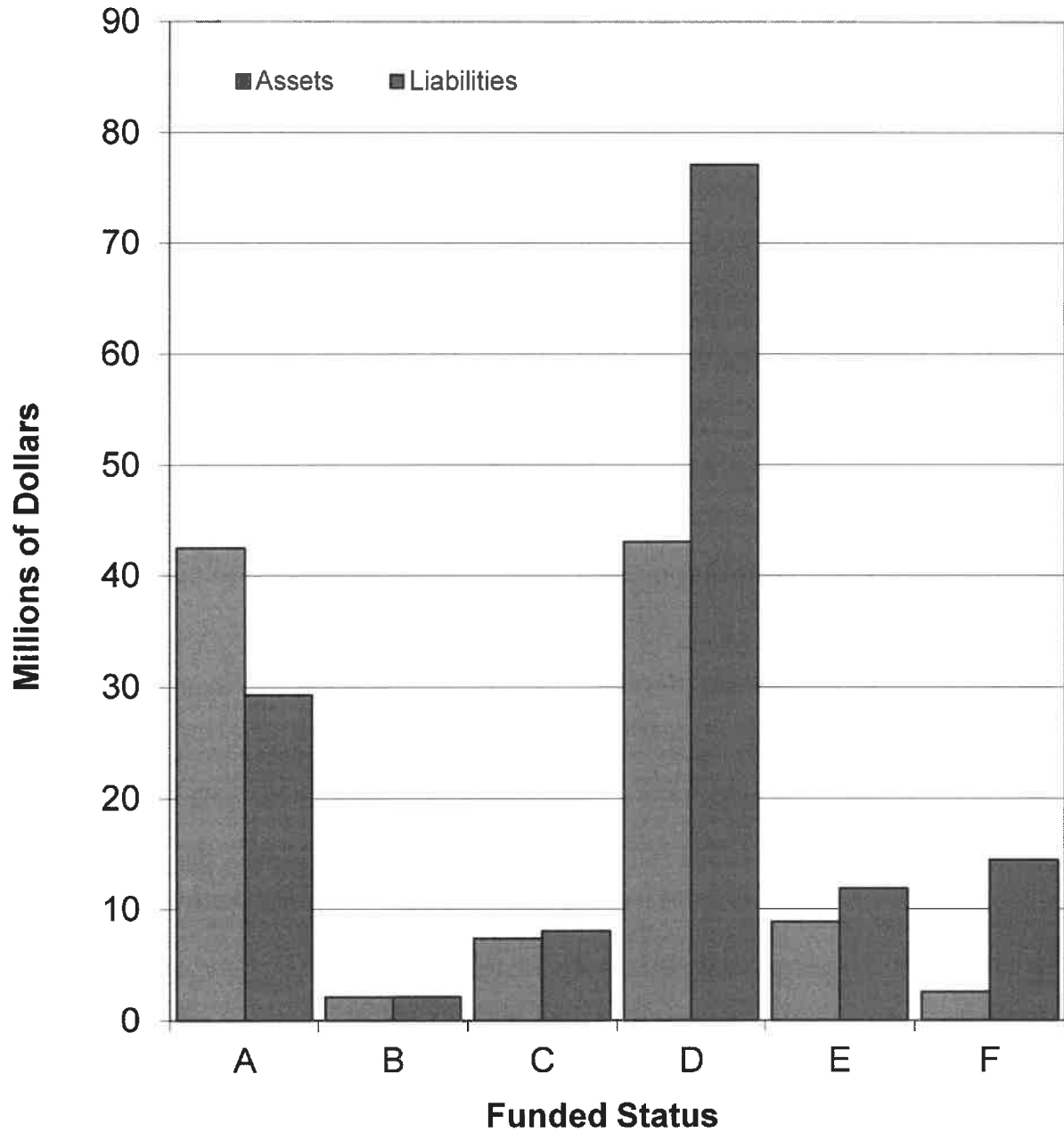


EXHIBIT 3

Summary of Funding Status

POLICE FUNDS

Funding Status	Number of Plans	Total Actives & Retirees	Actuarial Accrued Liability	Assets	Unfunded Actuarial Accrued Liability	Contribution Shortfall
A	3	46	20,701,797	32,427,401	-11,725,605	0
B	0	0	0	0	0	0
C	0	0	0	0	0	0
D	3	112	41,229,152	18,008,389	23,220,763	2,844,716
E	0	0	0	0	0	0
F	0	0	0	0	0	0
Total	6	158	61,930,949	50,435,791	11,495,158	2,844,716

PAID/MIXED FIRE FUNDS

Funding Status	Number of Plans	Total Actives & Retirees	Actuarial Accrued Liability	Assets	Unfunded Actuarial Accrued Liability	Contribution Shortfall
A	3	38	3,355,904	3,629,918	-274,014	0
B	2	29	1,415,116	1,393,679	21,437	0
C	1	18	4,818,494	4,514,935	303,559	0
D	7	154	33,068,077	22,570,814	10,497,263	700,971
E	2	42	11,854,304	8,843,311	3,010,993	600,787
F	1	42	14,068,129	2,398,499	11,669,630	1,705,396
Total	16	323	68,580,024	43,351,156	25,228,868	3,007,153

EXHIBIT 3

Summary of Funding Status

VOLUNTEER FIRE FUNDS

Funding Status	Number of Plans	Total Actives & Retirees	Actuarial Accrued Liability	Assets	Unfunded Actuarial Accrued Liability	Contribution Shortfall
A	19	192	5,212,486	6,403,443	-1,190,957	0
B	3	25	687,705	682,802	4,903	0
C	6	74	3,212,201	2,851,613	360,588	0
D	9	95	2,807,133	2,449,341	357,792	57,940
E	0	0	0	0	0	0
F	1	10	360,494	153,177	207,317	46,745
Total	38	396	12,280,019	12,540,376	-260,357	104,685

ALL FUNDS

Funding Status	Number of Plans	Total Actives & Retirees	Actuarial Accrued Liability	Assets	Unfunded Actuarial Accrued Liability	Contribution Shortfall
A	25	276	29,270,186	42,460,762	-13,190,576	0
B	5	54	2,102,821	2,076,481	26,340	0
C	7	92	8,030,695	7,366,548	664,147	0
D	19	361	77,104,363	43,028,544	34,075,819	3,603,627
E	2	42	11,854,304	8,843,311	3,010,993	600,787
F	2	52	14,428,623	2,551,676	11,876,947	1,752,140
Total	60	877	142,790,992	106,327,323	36,463,669	5,956,554

EXHIBIT 4

Arkansas Municipal Police and Fire Pension and Relief Funds 12/31/2020

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

Number of Plans

<u>Type of Plan</u>	<u>0%-25%</u>	<u>26%-50%</u>	<u>51%-75%</u>	<u>76%-100%</u>	<u>Over 100%</u>
Police	0	2	1	0	3
Fire (Volunteer Only)	0	1	2	16	19
Fire (Mixed)	2	1	3	7	3
Fire (Full Paid)	0	0	0	0	0

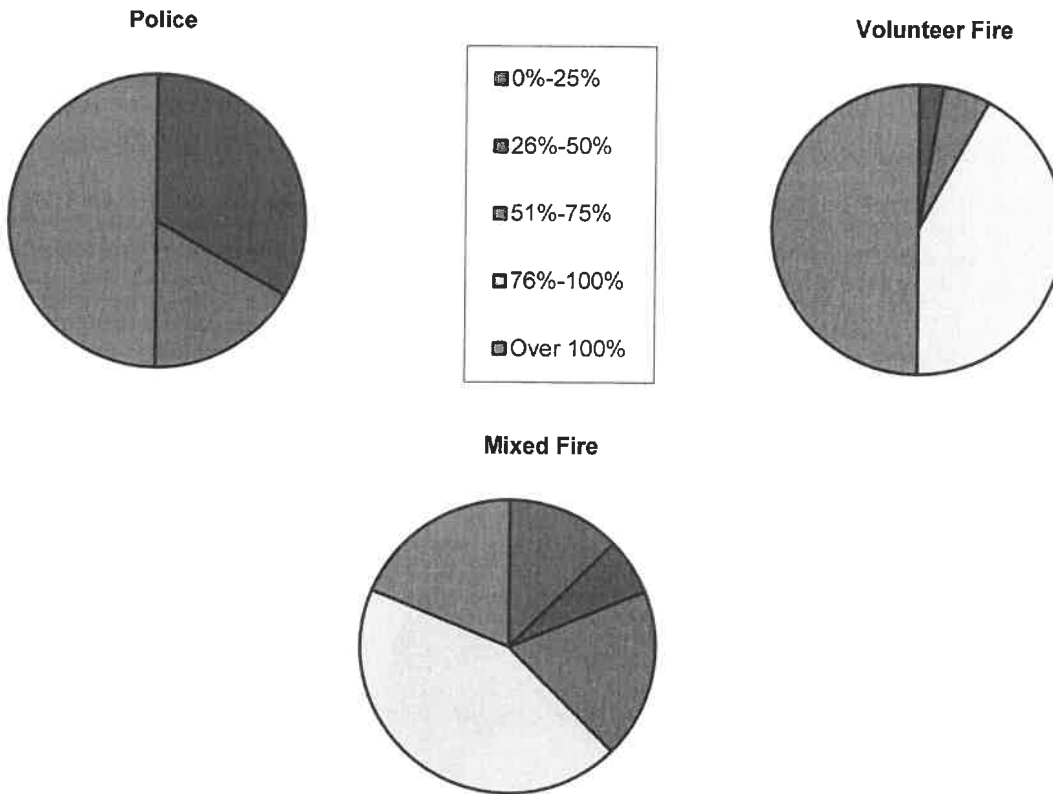


EXHIBIT 4

Arkansas Municipal Police and Fire Pension and Relief Funds 12/31/2020

2020 Reported Contributions
as Percentages of
Computed Contributions

Number of Plans

<u>Type of Plan</u>	<u>0%-25%</u>	<u>26%-50%</u>	<u>51%-75%</u>	<u>76%-100%</u>	<u>Over 100%</u>
Police	0	2	1	0	3
Fire (Volunteer Only)	7	2	0	1	28
Fire (Mixed)	2	3	1	4	6
Fire (Full Paid)	0	0	0	0	0

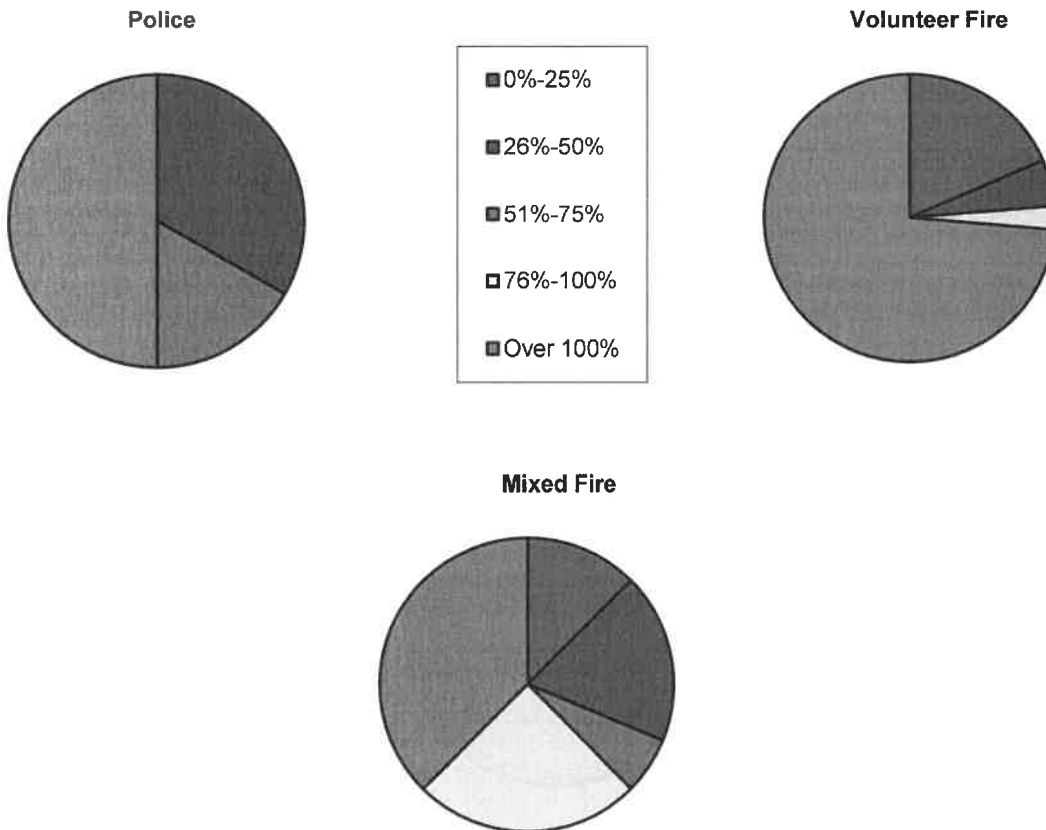


EXHIBIT 4 (continued)

Comparison of Percentages of Accrued Liabilities Covered by Assets and
2020 Reported Contributions as Percent of Computed Contributions

Total of All Plans

Number of Plans

<u>Contribution Ratio</u>	<u>Funded Percentage</u>				
	<u>0%-25%</u>	<u>26%-50%</u>	<u>51%-75%</u>	<u>76%-100%</u>	<u>Over 100%</u>
0%-25%	0	1	1	7	0
26%-50%	2	2	1	2	0
51%-75%	0	0	1	1	0
76%-100%	0	1	2	2	0
Over 100%	0	0	1	11	25

EXHIBIT 5

Arkansas Municipal Police and Fire Funds

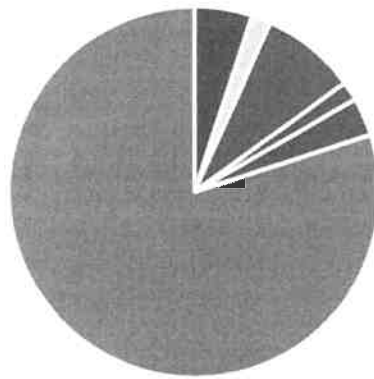
Average Market Rates of Returns 2011-2020

Based on Summary Results of the

December 31, 2020 Actuarial Valuations

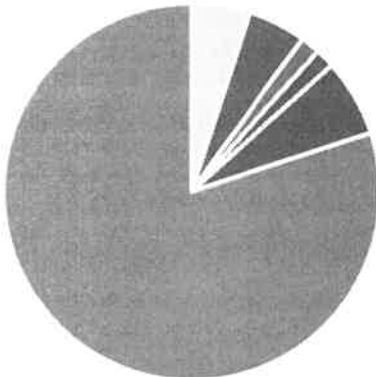
	<u>2020 Rate of Return</u>	<u>5-year Average</u>	<u>10-year Average</u>
Less than 0%	3	0	0
Less than 1%, greater than 0%	1	3	3
Less than 2%, greater than 1%	5	3	3
Less than 3%, greater than 2%	0	0	2
Less than 4%, greater than 3%	0	1	3
Less than 5%, greater than 4%	1	1	7
Less than 6%, greater than 5%	2	4	14
Greater than 6%	48	48	28

2020 Market Investment Returns



- Less than 0%
- Less than 1%, greater than 0%
- Less than 2%, greater than 1%
- Less than 3%, greater than 2%
- Less than 4%, greater than 3%
- Less than 5%, greater than 4%
- Less than 6%, greater than 5%
- Greater than 6%

Five Year Average Return



Ten Year Average Return

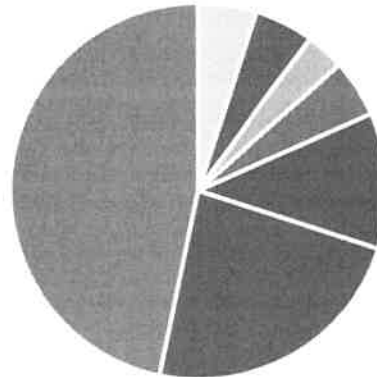


EXHIBIT 6

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, 2020. 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 2020 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

EXHIBIT 6 (Continued)

Arkansas Municipal Police and Fire Pension and Relief Funds

Based on the December 31, 2020 Actuarial Valuation

Type of Plan	Market Value Assets as of 12/31/2020	Valuation Assets as of 12/31/2020	Unfunded Actuarial Liability	Number of Individuals Covered	Actuarially Computed Contribution	Actual 2020 Contribution	Funded Status	Projected Years until all Assets Depleted	Risk Indicators				
									a	b	c	d	
Alma	Volunteer Fire	834,073	688,802	117,085	12	26,400	30,184	C	*	3	1	1	2
Amity	Volunteer Fire	207,133	168,290	(35,479)	8	0	0	A	*	1	2	1	1
Arkadelphia	Mixed Fire	594,066	413,850	540,225	18	121,807	93,465	D	*	5	2	2	2
Ashdown	Volunteer Fire	781,947	737,556	(262,314)	12	0	270	A	*	1	1	1	1
Batesville	Mixed Fire	349,834	333,463	2,631,089	16	593,246	266,358	D	*	5	1	4	2
Beebe	Mixed Fire	463,253	458,110	232,790	5	52,488	8,777	E	10-20	4	5	5	4
Booneville	Volunteer Fire	160,910	160,910	142,347	12	32,096	13,750	D	*	5	5	4	2
Brinkley	Mixed Fire	631,877	662,716	6,267	9	1,413	12,190	B	*	2	2	1	1
Carlisle	Volunteer Fire	174,120	174,956	21,931	13	4,945	11,625	C	*	3	5	1	2
Centerton	Mixed Fire	1,443,580	1,309,597	(19,425)	11	0	108,173	A	*	2	1	1	1
Clarendon	Volunteer Fire	306,390	284,032	2,738	7	617	1,288	B	*	2	2	1	1
Crawfordsville	Volunteer Fire	152,588	136,795	1,728	10	390	409	B	*	2	2	1	1
Dardanelle	Volunteer Fire	685,592	627,249	(77,630)	12	0	37,459	A	*	1	3	1	1
Dermott	Volunteer Fire	394,208	335,778	(2,783)	13	0	12,335	A	*	2	1	1	1
Dumas	Volunteer Fire	534,137	535,580	13,399	12	3,021	36	D	20+	2	1	3	3
Earle	Volunteer Fire	261,038	258,608	1,754	9	396	0	D	*	2	4	5	2
Elaine	Volunteer Fire	219,962	204,054	(73,340)	6	0	1,796	A	*	1	2	1	1
Elkins	Volunteer Fire	285,779	284,367	1,667	11	376	0	D	*	2	2	5	2
Eureka Springs	Mixed Fire	817,493	730,963	15,170	20	3,420	23,191	B	*	2	1	1	1
Fayetteville	Mixed Fire	2,148,179	2,398,499	11,669,630	42	2,631,215	925,819	F	Less than 10	5	3	4	5
Fayetteville	Paid Police	6,196,387	5,237,186	9,967,794	39	2,247,492	941,534	D	*	5	2	4	2
Flippin	Volunteer Fire	256,050	211,147	(57,742)	9	0	5,624	A	*	1	1	1	1
Fordyce	Volunteer Fire	663,660	589,540	(38,012)	14	0	14,444	A	*	2	1	1	1
Foreman	Volunteer Fire	227,493	188,429	(12,440)	9	0	45	A	*	2	1	1	1
Gassville	Volunteer Fire	184,329	155,065	85,121	8	19,193	19,597	C	*	4	1	1	2
Glenwood	Volunteer Fire	216,623	179,119	44,053	9	9,933	688	D	20+	3	1	5	3
Greers Ferry	Volunteer Fire	172,268	163,537	(16,046)	6	0	0	A	*	1	2	1	1

EXHIBIT 6 (Continued)

Arkansas Municipal Police and Fire Pension and Relief Funds

Based on the December 31, 2020 Actuarial Valuation

Type of Plan	Market Value Assets as of 12/31/2020	Valuation Assets as of 12/31/2020	Unfunded Actuarial Liability	Number of Individuals Covered	Actuarially Computed Contribution	Actual 2020 Contribution	Funded Status	Projected Years until all Assets Depleted	Risk Indicators				
									a	b	c	d	
Gurdon	Volunteer Fire	306,335	280,510	(47,935)	7	0	5,332	A	*	1	1	1	1
Hamburg	Volunteer Fire	290,055	232,788	(19,370)	13	0	170	A	*	2	1	1	1
Harrison	Mixed Fire	4,514,935	4,514,935	303,559	18	68,445	225,821	C	*	2	1	1	2
Harrison	Paid Police	3,264,558	3,264,558	(261,987)	10	0	107,309	A	*	2	1	1	1
Hazen	Volunteer Fire	222,364	222,364	(50,818)	13	0	12,796	A	*	1	5	1	1
Hickory Ridge	Volunteer Fire	325,879	261,975	437	8	99	1,868	B	*	2	4	1	1
Hope	Mixed Fire	2,139,503	1,941,333	(113,547)	14	0	85,587	A	*	2	5	1	1
Hughes	Volunteer Fire	190,454	156,317	32,701	11	7,373	581	D	*	3	1	5	2
Huttig	Volunteer Fire	191,771	191,771	(63,387)	9	0	7,717	A	*	1	5	1	1
Jacksonville	Mixed Fire	6,764,948	5,621,745	2,401,927	34	541,575	444,520	D	*	4	3	2	2
Jacksonville	Paid Police	6,425,043	6,295,517	(529,486)	17	0	338,600	A	*	2	3	1	1
Judsonia	Volunteer Fire	202,921	184,302	(8,973)	11	0	590	A	*	2	2	1	1
Lepanto	Volunteer Fire	145,682	134,170	17,407	12	3,925	4,865	C	*	3	5	1	2
Lonoke	Volunteer Fire	531,262	565,534	(56,032)	10	0	19,415	A	*	1	2	1	1
Manila	Volunteer Fire	391,793	335,592	(16,761)	13	0	12,664	A	*	2	1	1	1
Marianna	Mixed Fire	892,145	744,182	100,576	15	22,677	9,605	D	*	3	3	4	2
Marion	Volunteer Fire	170,167	153,177	207,317	10	46,745	0	F	Less than 10	5	3	5	5
Morrilton	Volunteer Fire	1,830,794	1,503,918	60,531	20	13,648	45,609	C	*	2	2	2	2
Mount Ida	Volunteer Fire	409,716	400,668	51,549	10	11,623	4,521	D	*	3	4	4	2
Mountainburg	Volunteer Fire	118,195	118,195	17,260	10	3,892	3,157	D	*	3	2	2	2
Nashville	Volunteer Fire	408,374	355,577	53,061	11	11,964	0	D	*	3	1	5	2
Osceola	Mixed Fire	3,242,381	2,958,194	403,151	16	90,901	88,519	D	*	3	2	2	2
Paris	Volunteer Fire	210,211	194,702	58,513	9	13,193	15,420	C	*	3	3	1	2
Prairie Grove	Volunteer Fire	368,398	294,623	(52,183)	8	0	0	A	*	1	1	1	1
Rogers	Mixed Fire	9,042,743	8,385,201	2,778,203	36	626,416	69,341	E	10-20	3	2	3	4
Rogers	Paid Police	24,465,386	22,867,326	(10,934,132)	19	0	93,922	A	*	1	1	1	1
Siloam Springs	Mixed Fire	3,958,053	3,217,873	1,007,375	14	227,138	125,117	D	*	3	3	3	2

EXHIBIT 6 (Continued)

Arkansas Municipal Police and Fire Pension and Relief Funds

Based on the December 31, 2020 Actuarial Valuation

Type of Plan	Market Value Assets as of 12/31/2020	Valuation Assets as of 12/31/2020	Unfunded Actuarial Liability	Number of Individuals Covered	Actuarially Computed Contribution	Actual 2020 Contribution	Funded Status	Projected Years until all Assets Depleted	Risk Indicators			
									a	b	c	d
Springdale Mixed Fire	11,354,613	9,281,506	3,412,920	41	769,529	638,319	D	*	4	1	2	2
Springdale Paid Police	8,842,996	8,468,341	5,205,330	33	1,173,674	770,964	D	*	4	2	3	2
Texarkana Paid Police	4,758,878	4,302,862	8,047,640	40	1,814,545	678,497	D	*	5	1	4	2
Waldron Volunteer Fire	257,386	215,055	(48,154)	8	0	8,000	A	*	1	1	1	1
Warren Mixed Fire	433,875	378,988	(141,042)	13	0	15,791	A	*	1	1	1	1
Yellville Volunteer Fire	748,223	655,324	(251,559)	11	0	13,199	A	*	1	1	1	1

Totals: 116,783,006 106,327,323 36,463,669 876 11,195,811 6,376,873

Key:

Least Risk	1
	2
	3
	4
Most Risk	5

Note: Risk Indicators are the metrics included in the cover letter of the Annual Actuarial Valuation for each Local Plan.
a) Funding Percentage Risk c) Recommended Contribution Risk
b) 10-Year Market Return Risk d) Future Crossover Point Risk