

#### Judges' Retirement System of Illinois

Valuation Results as of June 30, 2020

October 30, 2020

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## Agenda

- Valuation Results
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  - Change in funded ratio
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  - Contribution shortfalls
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- Appendix B: Membership Data



# Valuation Results: Funded Status (\$ in Millions)

	June 30, 2020	June 30, 2019
Actuarial Accrued Liability	\$2,849.9	\$2,793.0
Market Value of Assets (MVA)	\$1,112.5	\$1,073.1
Unfunded Actuarial Accrued Liability - MVA Basis	\$1,737.4	\$1,719.9
Funded Ratio - MVA Basis	39.04%	38.42%
Actuarial Value of Assets (AVA)	\$1,121.3	\$1,068.7
Unfunded Actuarial Accrued Liability - AVA Basis	\$1,728.6	\$1,724.3
Funded Ratio - AVA Basis	39.34%	38.26%



# Valuation Results: Change in Funded Ratio

Funded Ratio 6/30/2019	38.26%
Expected <sup>1</sup>	1.33%
Contribution Shortfall	-0.01%
Liability Experience	0.06%
Assumption Changes	0.00%
Asset Experience (5.72% Return on AVA)	<u>-0.30%</u>

Funded Ratio 6/30/2020

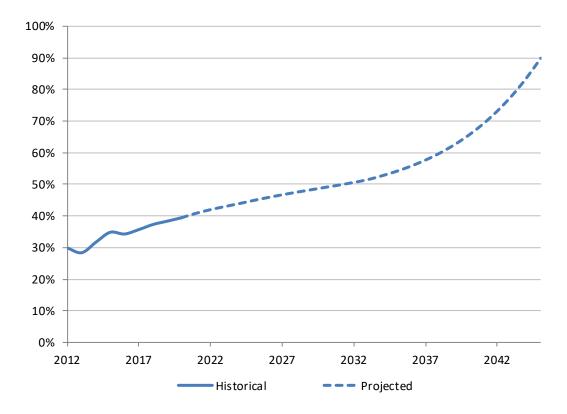
39.34%

<sup>1</sup>Assumes total contributions equal to normal cost plus interest.





## Valuation Results: Historical/Projected Funded Ratios







# Valuation Results: Cash Flow Comparison (\$ in Millions)

	FYE 2020	Projected FYE 2021	Projected FYE 2022	Projected FYE 2023	Projected FYE 2024
Employer Contribution	\$144.2	\$148.6	\$152.4	\$151.7	\$151.8
Employee Contribution	\$14.5	\$13.9	\$13.9	\$13.8	\$13.9
Benefits	(\$166.0)	(\$176.9)	(\$184.4)	(\$192.6)	(\$200.5)
Expenses	(\$1.0)	(\$1.0)	(\$1.0)	(\$1.0)	(\$1.0)
Net Cash Flow	(\$8.3)	(\$15.4)	(\$19.1)	(\$28.1)	(\$35.8)

- Benefits and expenses continue to exceed State and employee contributions.
- From 2021 to 2033, the percentage of investment income needed to pay ongoing benefits is projected to increase from approximately 20 percent to 88 percent.
  - This implies that a lower level of investment income is projected to be available for potential asset growth.



### Valuation Results: Contribution Requirements (\$ in Millions)

FY 2022 State Contribution	Amount	Rate
Basic Funding	\$ 152.4	97.319%
Compares to FY 2021 Contribution	Amount	Rate
Basic Funding	\$ 148.6	94.246%



# Valuation Results: Contribution Shortfalls (\$ in Millions)

FY 2022	Amount	Rate
Annual Determined Contribution Basic Funding Difference	\$ 175.8 <u>152.4</u> \$ 23.4	112.260% 97.319% 14.941%
FY 2021	Amount	Rate

The Actuarially Determined Contribution (ADC), is equal to the Normal Cost plus a 25-year level percent of capped payroll closed-period amortization of the Unfunded Actuarial Accrued Liability. As of June 30, 2020, the remaining amortization period is 20 years.



## **Experience Study**

 Pursuant to Public Act 99-0232, JRS is required to conduct an actuarial experience review once every three years. Under this schedule, an experience review for the period from July 1, 2018 through June 30, 2021, will be performed after completion of the June 30, 2021, actuarial valuation with expected implementation of the recommended assumptions beginning with the June 30, 2022, actuarial valuation.







- Investment losses decreased the funded ratio and increased the State's contribution requirement.
- Funded ratio is projected to increase slowly from 39.3% in 2020 to 51.5% in 2033, and then increases rapidly to 90% by 2045.

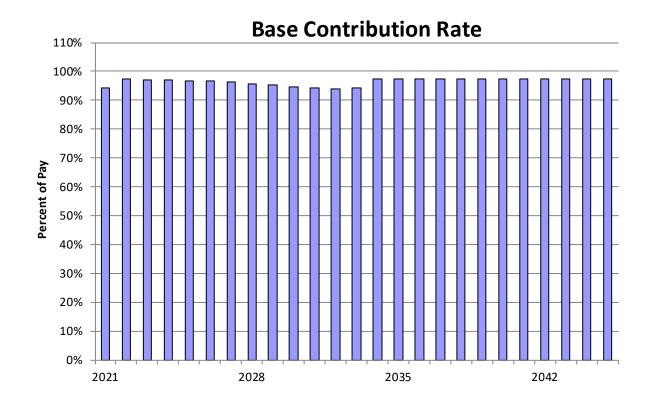


#### **APPENDIX A: PROJECTION RESULTS**





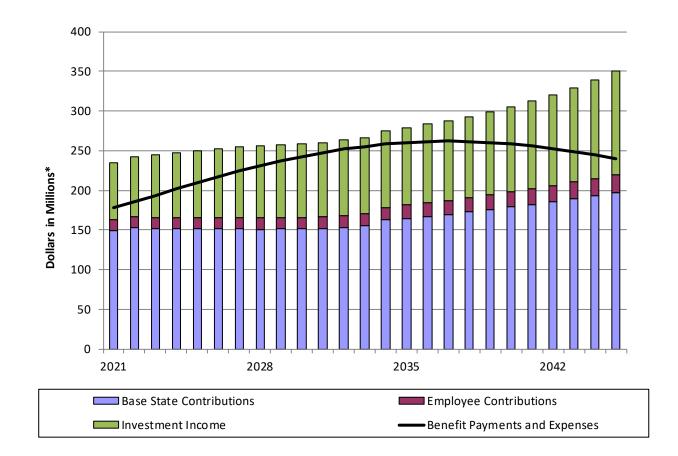
Projection Results: Phase-in of investment losses in the AVA and Contribution Rate Variances due to Smoothing of Changes in Assumptions: Contributions – Rate



Base Contribution



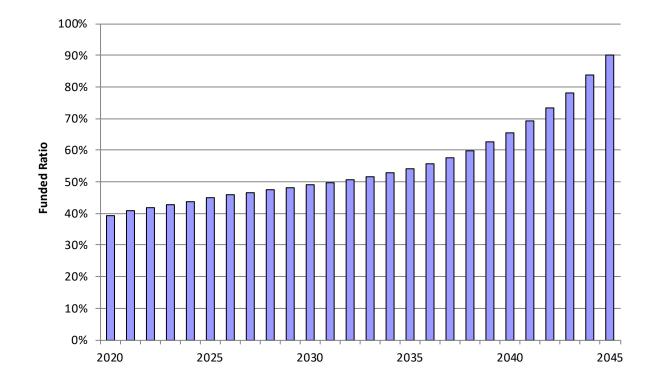
Projection Results: Phase-in of investment losses in the AVA and Contribution Rate Variances due to Smoothing of Changes in Assumptions: Cash Flow Comparison



\*Future dollar amounts are based on assumed inflationary increases.

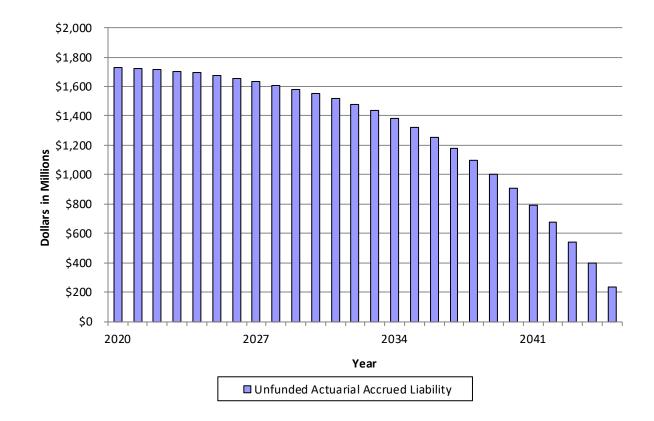


Projection Results: Phase-in of investment losses in the AVA and Contribution Rate Variances due to Smoothing of Changes in Assumptions: Funded Ratio





Projection Results: Phase-in of investment losses in the AVA and Contribution Rate Variances due to Smoothing of Changes in Assumptions: Unfunded Actuarial Accrued Liability





#### **APPENDIX B: MEMBERSHIP DATA**





#### **Active Members**

	June 30, 2020	June 30, 2019
Number as of Valuation Date	947	956
Covered Uncapped Payroll for Fiscal Year	\$193.42 Million	\$190.74 Million
Average Annual Earnings	\$204,243	\$199,521





#### **Current Benefit Recipients**

	June 30, 2020	June 30, 2019
Retirees	931	913
Disabled	0	0
Survivors	345	349
Total	1,276	1,262
Total Benefits	\$166.95M	\$160.51M
Average Benefits	\$130,839	\$127,187











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- The primary purpose of the actuarial valuation is to measure the financial position of JRS.





## Disclosures

- The valuation results summarized in this report involve actuarial calculations that require assumptions about future events. The major actuarial assumptions used in this analysis were provided by and are the responsibility of JRS. We are unable to judge the reasonableness of some of these assumptions without performing a substantial amount of additional work beyond the scope of the assignment.
- Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; and changes in plan provisions or applicable law.
- This is one of multiple documents comprising the actuarial report for the JRS actuarial valuation. Additional information regarding actuarial assumptions and methods, and important additional disclosures are provided in the full actuarial valuation report as of June 30, 2020.
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