



Cavanaugh Macdonald
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Indiana Public Retirement System

Prosecuting Attorneys' Retirement Fund

Actuarial Valuation as of
June 30, 2021





Cavanaugh Macdonald

CONSULTING, LLC

The experience and dedication you deserve

December 13, 2021

Board of Trustees
Indiana Public Retirement System
1 North Capitol, Suite 001
Indianapolis, IN 46204

Dear Members of the Board:

At your request, we performed an actuarial valuation of the Prosecuting Attorneys' Retirement Fund (PARF) as of June 30, 2021, for the purpose of estimating the actuarial required contribution for the plan year ending June 30, 2023. Actuarial valuations are performed annually. The major findings of the valuation are contained in this report, which reflects the benefit and funding provisions in place on June 30, 2021. There were no changes in the plan provisions, demographic assumptions or actuarial methods from last year. New economic assumptions approved by the Board in May 2021 are reflected in the report. Please refer to the May 7, 2021 meeting minutes for complete details.

In preparing our report, we relied, without audit, on information (some oral and some in writing) supplied by Indiana Public Retirement System (INPRS) staff. This information includes, but is not limited to, statutory provisions, member data and financial information. We did review the data to ensure that it was reasonably consistent and comparable with data from prior years. The valuation results depend on the integrity of this information. If any of this information is inaccurate or incomplete, our results may be different and our calculations may need to be revised.

We certify that all costs and liabilities for the PARF have been determined on the basis of actuarial assumptions and methods which are individually reasonable (taking into account the experience of the plan and reasonable expectations); and which, in combination, offer the best estimate of anticipated experience affecting the plan. Nevertheless, the emerging costs will vary from those presented in this report to the extent actual experience differs from that projected by the actuarial assumptions.

We believe the actuarial assumptions used herein are reasonable. The Board has the final decision regarding the appropriateness of the assumptions and adopted them as indicated in Appendix C. Specifically, we presented the proposed assumptions for the 2021 valuations to the Board on February 26, 2021, and the Board subsequently adopted their use at its May 7, 2021 meeting. These assumptions are applicable to both the funding and Governmental Accounting Standards Board (GASB) Statement Number 67 valuation calculations, unless otherwise noted.

3802 Raynor Pkwy, Suite 202, Bellevue, NE 68123
Phone (402) 905-4461 • Fax (402) 905-4464
www.CavMacConsulting.com
Offices in Kennesaw, GA • Bellevue, NE



We note that as we are preparing this report, the world is in the midst of a pandemic. We have considered available information, but do not believe that there is yet sufficient data to warrant the modification of any of our assumptions. We will continue to monitor the situation and advise the Board in the future of any adjustments that we believe would be appropriate.

In order to prepare the results in this report, we have utilized appropriate actuarial models that were developed for this purpose. These models use assumptions about future contingent events along with recognized actuarial approaches to develop the needed results. 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; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of our assignment, we did not perform an analysis of the potential range of future measurements.

We prepared a Risk Report for the INPRS Board in August 2019 that contains information which is relevant to PARF and should be considered part of this valuation report. Although the report was prepared using the data, methods, and assumptions of the June 30, 2018 valuation report, it is our professional opinion that the results of the risk report are applicable to the June 30, 2021 valuation report as well.

Actuarial computations presented in this report are for purposes of determining the funding rates for the Plan. The calculations in the enclosed report have been made on a basis consistent with our understanding of the Plan's funding requirements and goals as adopted by the Board. Additionally, we have included actuarial computations for use in preparing certain reporting and disclosure requirements under Governmental Accounting Standards Board Statements Number 67 and Number 68. Determinations for purposes other than meeting these funding and disclosure requirements may be significantly different from the results contained in this report and require additional analysis.

The Annual Comprehensive Financial Report (ACFR) for INPRS contains several exhibits that disclose the actuarial position of the System. This annual report, prepared as of June 30, 2021, provides data and tables that we prepared for use in the following sections of the ACFR:

Financial Section:

- Note 1 - Tables of Plan Membership
- Note 8 - Net Pension Liability and Actuarial Information - Defined Benefit Plans
- Schedule of Changes in Net Pension Liability and Plan Fiduciary Net Position
- Schedule of Contributions
- Schedule of Notes to Required Supplementary Information

Actuarial Section:

- Summary of INPRS Funded Status (Included in the Board Summary)
- Historical Summary of Actuarial Valuation Results by Retirement Plan
- Summary of Actuarial Assumptions, Methods and Plan Provisions
- Analysis of Financial Experience (Included in the Unfunded Actuarial Accrued Liability Reconciliation)
- Solvency Test
- Schedule of Active Member Valuation Data
- Schedule of Retirants and Beneficiaries



Statistical Section:

- Membership Data Summary
- Ratio of Active Members to Annuitants
- Schedule of Benefit Recipients by Type of Benefit Option
- Schedule of Average Benefit Payments

The consultants who worked on this assignment are pension actuaries. Cavanaugh Macdonald's advice is not intended to be a substitute for qualified legal or accounting counsel.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate, and the assumptions and methods used meet the guidance provided in the applicable Actuarial Standards of Practice. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein.

The calculations were completed in compliance with applicable law and the calculations for GASB disclosure, in our opinion, meet the requirements of GASB 67 and GASB 68. We are available to answer any questions on the material contained in the report, or to provide explanations or further details as may be appropriate.

We respectfully submit the following report and look forward to discussing it with you.

Sincerely,

A handwritten signature in blue ink that reads "Brent A. Banister".

Brent A. Banister, PhD, FSA, EA, FCA, MAAA
Chief Actuary

A handwritten signature in blue ink that reads "Edward J. Koebel".

Edward Koebel, FCA, EA, MAAA
Chief Executive Officer

A handwritten signature in blue ink that reads "Virginia Fritz".

Virginia Fritz, FSA, EA, FCA, MAAA
Senior Actuary



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SECTION 1 – BOARD SUMMARY

This report presents the results of the June 30, 2021 actuarial valuation of the Prosecuting Attorneys’ Retirement Fund (PARF). The primary purposes of performing this actuarial valuation are to:

- Determine the contribution amount for the plan year ending June 30, 2023 that will be sufficient to meet the funding policy.
- Disclose asset and liability measurements as well as the plan’s funded status on the valuation date.
- Compare actual and expected experience by the Fund during the plan year ending June 30, 2021.
- Analyze and report on trends in plan contributions, assets and liabilities over the past several years.

VALUATION RESULTS

Based on the results of the Asset-Liability study, which were discussed at the May 2021 Board meeting, the Board approved portfolio revisions and a new set of economic assumptions to be first used in the June 30, 2021 actuarial valuations. This resulted in a reduction of the investment return from 6.75% to 6.25%, but also impacted other assumptions such as price and wage inflation. There were no changes adopted by the Board to the demographic assumptions, plan provisions, actuarial methods, or funding policy.

The actuarial valuation results provide a “snapshot” view of the plan’s financial condition on June 30, 2021. The plan’s unfunded actuarial accrued liability (UAAL) increased from \$37.8 million last year to \$40.1 million this year and the funded ratio increased from 64.7% last year to 65.7% this year. The primary factor behind the increase in the UAAL was an increase on liabilities due to economic assumption changes (a \$6.2 million increase), which was offset to a degree by favorable asset experience (a \$2.3 million gain). The plan will continue to recognize this year’s large asset return gains, as they are spread over the next four years. While the UAAL and funded ratio typically move in opposite directions, they both increased this year. As mentioned, assets and liabilities both increased to higher levels, which resulted in a larger dollar amount of UAAL, but when viewed as a ratio, the plan is actually better funded.

A summary of the key results from the June 30, 2021 actuarial valuation compared to the June 30, 2020 valuation is shown in the following table. Further detail on the valuation results can be found in the following sections of this Board Summary.

Valuation Results	June 30, 2020	June 30, 2021
Unfunded Actuarial Accrued Liability	\$ 37,760,310	\$ 40,125,570
Funded Ratio (Actuarial Assets)	64.73%	65.71%
Normal Cost	8.73%	8.82%
UAAL Amortization	13.59%	14.24%
Total Recommended Contribution	22.32%	23.06%
Estimated Member Contributions	(6.00%)	(6.00%)
Actuarially Determined Contribution Amount	16.32%	17.06%

Numerous components, as examined in the following discussion, contributed to the change in the plan’s assets, liabilities, and actuarial determined contribution rate between June 30, 2020 and June 30, 2021.



SECTION 1 – BOARD SUMMARY

ASSETS

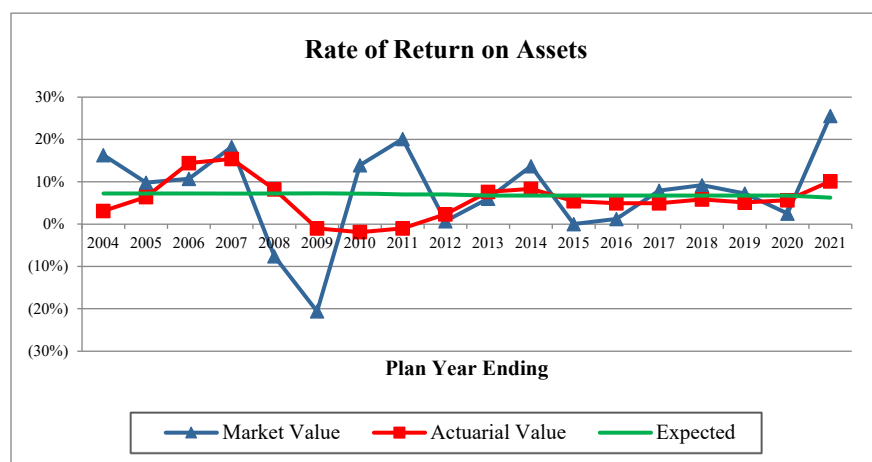
As of June 30, 2021, the plan had net assets of \$85.9 million when measured on a market value basis. This was an increase of \$18.0 million from the prior year.

The market value of assets is not used directly in the calculation of the unfunded actuarial accrued liability and the actuarial required contribution. An asset valuation method, which smoothes the effect of market fluctuations, is applied to determine the value of assets used in the valuation. The resulting amount is called the actuarial value of assets. In this year’s valuation, the actuarial value of assets is \$76.9 million, an increase of \$7.6 million from the prior year.

The components of change in the asset values are shown in the following table:

	Market Value	Actuarial Value
Net Assets, June 30, 2020	\$ 67,875,761	\$ 69,288,404
- Employer and Member Contributions	+ 5,860,860	+ 5,860,860
- Benefit Payments and Refunds	- 5,288,529	- 5,288,529
- Net Investment Income	+ 17,420,833	+ 7,036,215
Net Assets, June 30, 2021	\$ 85,868,925	\$ 76,896,950
Estimated Rate of Return, Net of Expenses	25.6%	10.1%

The estimated rate of return on the actuarial value of assets was 10.1%, which was lower than the 6.75% investment return assumption applicable for the year ended June 30, 2021. As a result, there was an experience gain on assets of \$2.3 million. The estimated investment return on the market value of assets for FY 2021 of 25.6% resulted in a change in the deferred investment experience from a net deferred investment loss of \$1.4 million in last year’s valuation to a net deferred investment gain of \$9.0 million in the current valuation. See Table 1 and Table 2 of this report for detailed information on the market and actuarial value of assets.



The rate of return of the actuarial value of assets has been less volatile than the market value return, illustrating the benefits of using an asset smoothing method.



SECTION 1 – BOARD SUMMARY

LIABILITIES

The actuarial accrued liability is that portion of the present value of future benefits that is allocated to past service. The remaining portion will be paid by future normal costs. The difference between this liability and the actuarial value of assets as of the valuation date is called the unfunded actuarial accrued liability (UAAL). The dollar amount of unfunded actuarial accrued liability is reduced if the contributions to the plan exceed the normal cost for the year plus interest on the prior year's UAAL.

The unfunded actuarial accrued liability on both a market value and actuarial value of assets basis is shown as of June 30, 2021 in the following table:

	Market Value		Actuarial Value	
Actuarial Accrued Liability	\$	117,022,520	\$	117,022,520
Value of Assets		85,868,925		76,896,950
Unfunded Actuarial Accrued Liability	\$	31,153,595	\$	40,125,570
Funded Ratio		73.38%		65.71%

See Table 3 of this report for the development of the unfunded actuarial accrued liability.

The UAAL (on an actuarial basis) as of June 30, 2021 was a \$40.1 million deficit, an increase of \$2.3 million from the \$37.8 million deficit last year. The increase was primarily driven by a \$6.2 million increase in liabilities due to assumption changes, which was offset by an actuarial gain on assets of \$2.3 million due to higher-than-expected market returns. The components of the change in the UAAL are quantified in Table 5 of this report. See Table 6 and Table 7 of this report for a breakdown of the components of experience gains/losses for greater detail.

An evaluation of the UAAL on a pure dollar basis may not provide a complete analysis since only the difference between the assets and liabilities (which are both large numbers) is reflected. Another way to evaluate the UAAL and the progress made in its funding is to track the funded ratio, the ratio of the actuarial value of assets to the actuarial accrued liability. The funded status information, which is based on the actuarial value of assets, is shown below (in millions).

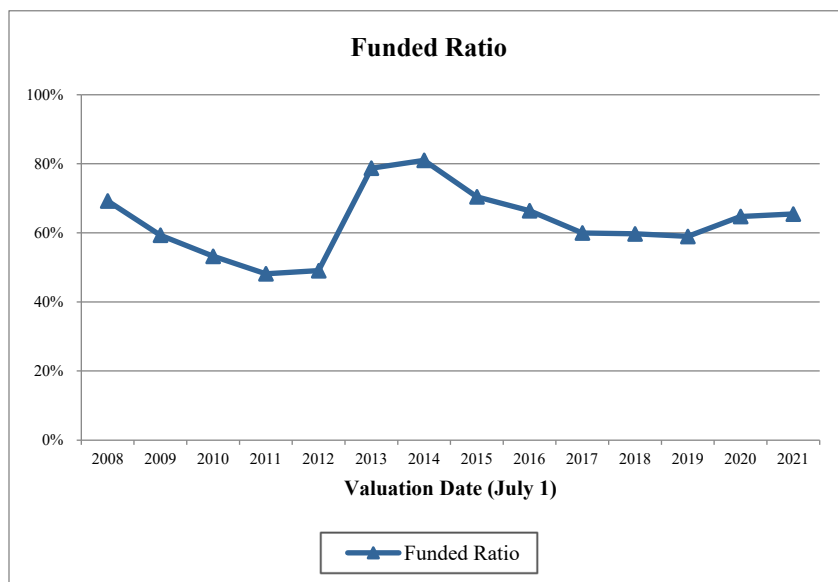
	6/30/2017	6/30/2018	6/30/2019	6/30/2020	6/30/2021
Funded Ratio	60.0%	59.7%	59.0%	64.7%	65.7%
UAAL (in millions)	\$38.7	\$41.6	\$45.2	\$37.8	\$40.1

Note that the funded ratio does not indicate whether or not the plan assets are sufficient to settle benefits earned to date. The funded ratio, by itself, also may not be indicative of future funding requirements. In addition, if the funded ratios were shown using the market value of assets, the results would differ.



SECTION 1 – BOARD SUMMARY

As the following graph of historical funded ratios shows, the funding level of PARF has varied over time.



ACTUARIALLY DETERMINED CONTRIBUTION AMOUNT

The State’s funding policy is to contribute an appropriated amount that is estimated at the start of each biennium. The specific amounts in the appropriation bill are guided by the funding requirements of the Plan from an actuarial perspective. A traditional funding strategy includes:

- A “normal cost” for the portion of projected liabilities allocated by the actuarial cost method to service of members during the year following the valuation date.
- An “unfunded actuarial accrued liability contribution” for the excess of the portion of projected liabilities allocated to service to date over the actuarial value of assets.

The UAAL contribution rate is determined by calculating the amortization payment on the UAAL as a level dollar amount over 20 years for each amortization base. Whenever the Plan funded ratio exceeds 100%, all prior amortization bases are eliminated and the negative UAAL (or “surplus”) is amortized over an open 30-year period, as an offset to other Fund costs.

The actuarially determined contribution amount for the prosecuting attorneys includes a normal cost which is theoretically based on all prosecuting attorneys’ payroll. However, member contributions are only made on payroll of those with less than 22 years of service, while the employer contributions are based upon a direct legislative allocation determined from estimated total payroll. **Consequently, the actual funding requirements are adjusted to reflect only the pay upon which member contributions are made.** While this approach may make the presentation of results more complicated and not directly comparable to other plans, it nonetheless produces an amount that will, if contributed, systematically fund the Plan through time.



SECTION 1 – BOARD SUMMARY

See Table 10 of this report for the detailed development of the contribution amounts which are summarized in the following table:

	June 30, 2020	June 30, 2021
Normal Cost	8.73%	8.82%
UAAL Amortization	13.59%	14.24%
Total Recommended Contribution	22.32%	23.06%
Estimated Member Contributions	(6.00%)	(6.00%)
Actuarially Determined Contribution Rate	16.32%	17.06%
Estimated Payroll	\$ 24,780,599	\$ 24,918,438
Estimated Contribution Amount	\$ 4,044,194	\$ 4,251,086

Because the funding of the plan is largely based on payroll, the Actuarially Determined Contribution for FY 2024 can be assumed to be 2.65% (payroll growth assumption) higher than the FY 2023 rate shown above in the June 30, 2021 valuation, or \$4,363,740.

House Enrolled Act No. 1001 appropriated funds in the amount of \$4,044,194 for the fiscal year ending June 30, 2022 and \$4,155,409 for the fiscal year ending June 30, 2023. The Board will recommend appropriation amounts to the Indiana Legislature for the next biennium (FY 2024 and FY 2025) based on the June 30, 2022 valuation. Therefore, the June 30, 2021 actuarial determined contribution is not directly used in the funding of the plan.

**SECTION 1 – BOARD SUMMARY****SUMMARY OF PRINCIPAL RESULTS**

	June 30, 2019	June 30, 2020	June 30, 2021
MEMBERSHIP			
Active Members	203	205	198
Retired Members and Beneficiaries	150	167	182
Disabled Members	2	2	3
Inactive Members	224	243	245
Total Members	579	617	628
Projected Annual Salaries of Active Members	\$ 22,379,048	\$ 24,780,599	\$ 24,918,438
Annual Retirement Payments for Retired Members, Disabled Members and Beneficiaries	\$ 3,891,954	\$ 4,489,144	\$ 4,939,983
ASSETS AND LIABILITIES			
Net Assets			
Market Value of Assets (MVA)	\$ 65,522,813	\$ 67,875,761	\$ 85,868,925
Actuarial Value of Assets (AVA)	64,908,695	69,288,404	76,896,950
Actuarial Accrued Liability (AAL)	110,081,262	107,048,714	117,022,520
Unfunded Actuarial Accrued Liability (UAAL): AAL - AVA	\$ 45,172,567	\$ 37,760,310	\$ 40,125,570
Funded Ratios			
AVA / AAL	58.96%	64.73%	65.71%
MVA / AAL	59.52%	63.41%	73.38%
CONTRIBUTIONS			
Normal Cost Rate	9.24%	8.73%	8.82%
UAAL Rate	17.49%	13.59%	14.24%
Total Recommended Contribution Rate	26.73%	22.32%	23.06%
Expected Employee Contribution Rate ¹	(6.00%)	(6.00%)	(6.00%)
Actuarially Determined Contribution Rate	20.73%	16.32%	17.06%
Actuarially Determined Contribution Amount	\$ 4,639,177	\$ 4,044,194	\$ 4,251,086

¹Only active members with less than 22 years of service make contributions to the plan.



SECTION 2 – SCOPE OF THE REPORT

This report presents the actuarial valuation results of the Prosecuting Attorneys’ Retirement Fund as of June 30, 2021. This valuation was prepared at the request of the Indiana Public Retirement System.

Please pay particular attention to our actuarial certification letter, where the guidelines employed in the preparation of this report are outlined. We also comment on the sources and reliability of both the data and the actuarial assumptions upon which our findings are based. Those comments are the basis for our certification that this report is complete and accurate to the best of our knowledge and belief.

A summary of the findings which result from this valuation is presented in the previous section. Section 3 describes the assets and investment experience of the plan. Sections 4 and 5 describe how the obligations of the plan are to be met under the actuarial cost method in use. Section 6 provides information required by the Governmental Accounting Standards Board (GASB) for reporting and disclosure under GASB 67 and GASB 68.

This report includes several appendices:

- Appendix A Schedules of valuation data classified by various categories of members.
- Appendix B A summary of the current benefit structure, as determined by the provisions of governing law on June 30, 2021.
- Appendix C A summary of the actuarial methods and assumptions used to estimate liabilities and determine contribution rates.
- Appendix D A glossary of actuarial terms.



SECTION 3 – ASSETS

In many respects, an actuarial valuation can be thought of as an inventory process. The inventory is taken as of the actuarial valuation date, which for this valuation is June 30, 2021. On that date, the assets available for the payment of benefits are appraised. The assets are compared with the liabilities of the plan, which are generally in excess of assets. The actuarial process then leads to a method of determining the contributions needed by members and the employer in the future to balance the plan assets and liabilities.

Market Value of Assets

The current market value represents the "snapshot" or "cash-out" value of plan assets as of the valuation date. In addition, the market value of assets provides a basis for measuring investment performance from time to time.

Table 1 summarizes the changes in the market value of assets for the last two years. Table 12 (in the GASB section) provides detail regarding the allocation of investments in the trust.

Actuarial Value of Assets

The market value of assets, representing a "cash-out" value of plan assets, may not be the best measure of the plan's ongoing ability to meet its obligations. To arrive at a suitable value of assets for the actuarial valuation, a technique for determining the actuarial value of assets is used which dampens swings in the market value while still indirectly recognizing market values. Under the asset smoothing methodology, the difference between the actual and assumed investment return on the market value of assets is recognized evenly over a five-year period.

Table 2 shows the development of the actuarial value of assets (AVA) as of the valuation date.



TABLE 1
DEVELOPMENT OF MARKET VALUE OF ASSETS

	June 30, 2020	June 30, 2021
1. Market Value of Assets, Beginning of Year	\$ 65,522,813	\$ 67,875,761
2. Receipts		
a. Member (Includes Purchased Service)	\$ 1,439,332	\$ 1,459,352
b. Employer	4,232,219	4,401,508
c. Total	<u>\$ 5,671,551</u>	<u>\$ 5,860,860</u>
3. Expenditures		
a. Benefit Payments	\$ 4,808,713	\$ 5,147,970
b. Refund of Contributions	165,686	140,559
c. Administrative Expense	74,091	70,961
d. Total	<u>\$ 5,048,490</u>	<u>\$ 5,359,490</u>
4. Investment Return		
a. Investment Income	\$ 1,726,231	\$ 17,488,141
b. Securities Lending Income	3,656	3,653
c. Total Investment Return	<u>\$ 1,729,887</u>	<u>\$ 17,491,794</u>
5. Market Value of Assets, End of Year: (1) + (2c) - (3d) + (4c)	\$ 67,875,761	\$ 85,868,925
6. Estimated Rate of Return, Net of Expenses ¹	2.51%	25.56%

¹ Based on individual fund experience. Assumes cash flows occur at mid-year.



SECTION 3 – ASSETS

TABLE 2

DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS

		For Plan Year Ending June 30, 2021		
1. Market Value as of June 30, 2020				\$ 67,875,761
2. Receipts				\$ 5,860,860
3. Expenditures, Net of Administrative Expenses				\$ (5,288,529)
4. Expected Return on Assets ¹				\$ 4,600,930
5. Expected Market Value as of June 30, 2021: (1) + (2) + (3) + (4)				\$ 73,049,022
6. Actual Market Value as of June 30, 2021				\$ 85,868,925
7. Year End 2021 Asset Gain/(Loss): (6) - (5)				\$ 12,819,903
8. Deferred Investment Gains and Losses				
	Year Ended June 30:	Gain/(Loss)	Factor	Deferred Amount
a.	2018	\$ 1,368,137	20%	\$ 273,627
b.	2019	291,851	40%	116,740
c.	2020	(2,790,523)	60%	(1,674,314)
d.	2021	12,819,903	80%	10,255,922
e.	Total			\$ 8,971,975
9. Initial Actuarial Value as of June 30, 2021: (6) - (8e)				\$ 76,896,950
10. Constraining Values				
a. 80% of Market Value: (6) x 0.8				\$ 68,695,140
b. 120% of Market Value: (6) x 1.2				\$ 103,042,710
11. Actuarial Value as of June 30, 2021				\$ 76,896,950
12. Actuarial Rate of Return, Net of Expenses ²				10.11%
13. Actuarial Value of Assets as a Percent of Market Value: (11) / (6)				89.6%

¹ Assumes cash flows occur at mid-year and a return assumption of 6.75%.

² Assumes cash flows occur at mid-year.



SECTION 4 – PLAN LIABILITIES

In the previous section, an actuarial valuation was compared with an inventory process, and an analysis was given of the inventory of assets of the Prosecuting Attorneys' Retirement Fund as of the valuation date, June 30, 2021. In this section, the discussion will focus on the commitments (future benefit payments) of the plan, which are referred to as its liabilities.

The liability calculations for the June 30, 2021 Prosecuting Attorneys' Retirement Fund valuation are based on census data collected as of June 30, 2020. Standard actuarial techniques are used to adjust these results from June 30, 2020 to June 30, 2021. While these roll-forward techniques are based on the expectation that all actuarial assumptions are met during the intervening year, there will, of course, be many of the assumptions that are not met exactly. In general, this does not materially affect the resulting calculations or conclusions in this report. Should there be a year in which events, such as plan changes, occur that would affect the results, adjustments in the roll-forward methods would be made to appropriately reflect the events.

All liabilities reflect the benefit provisions and actuarial assumptions in place as of June 30, 2021.

Actuarial Accrued Liability

A fundamental principle in financing the liabilities of a retirement program is that the cost of its benefits should be related to the period in which benefits are earned, rather than to the period of benefit distribution. An actuarial cost method is a mathematical technique that allocates the present value of future benefits into annual costs. In order to do this allocation, it is necessary for the funding method to "breakdown" the present value of future benefits into two components:

- (1) that which is attributable to the past and
- (2) that which is attributable to the future.

Actuarial terminology calls the part attributable to the past the "past service liability" or the "actuarial accrued liability." The portion allocated to the future is known as the present value of future normal costs, with the specific piece of it allocated to the current year being called the "normal cost."

Table 3 contains the calculation of actuarial accrued liability for the plan. The Entry Age Normal actuarial cost method is used to develop the actuarial accrued liability.



TABLE 3
ACTUARIAL ACCRUED LIABILITY

	As of June 30, 2021
1. Actuarial Accrued Liability	
a. Member Contribution Balances	\$ 27,001,266
b. Active & Inactive Members	39,182,579
c. In-pay Members	<u>50,838,675</u>
d. Total	117,022,520
2. Actuarial Value of Assets	76,896,950
3. Unfunded Actuarial Accrued Liability: (1d) – (2)	40,125,570
4. Funded Ratio: (2)/(1d)	65.71%



SECTION 4 – PLAN LIABILITIES

**TABLE 4
SOLVENCY TEST**

Actuarial Valuation as of June 30	Actuarial Accrued Liabilities (AAL)				Actuarial Value of Assets	Portion of AAL Covered by Assets			
	Active Member Contributions	Retirees and Beneficiaries	Active Member (Employer Financed Portion)	Total Actuarial Accrued Liabilities		Active Member Contributions	Retirees and Beneficiaries	Active Member (Employer Financed Portion)	Total Actuarial Accrued Liabilities
2021	\$27,001	\$50,839	\$39,183	\$117,023	\$76,897	100.0%	98.1%	0.0%	65.7%
2020	27,768	44,410	34,871	107,049	69,288	100.0	93.5	0.0	64.7
2019	27,470	39,607	43,004	110,081	64,909	100.0	94.5	0.0	59.0
2018	27,620	39,034	36,630	103,284	61,664	100.0	87.2	0.0	59.7
2017	26,327	38,504	31,824	96,655	57,967	100.0	82.2	0.0	60.0
2016	26,206	37,709	21,118	85,033	56,472	100.0	80.3	0.0	66.4
2015	25,479	26,636	25,746	77,861	54,848	100.0	100.0	10.6	70.4
2014	26,654	22,665	16,017	65,336	52,936	100.0	100.0	22.6	81.0
2013	25,371	22,004	14,565	61,940	48,762	100.0	100.0	9.5	78.7
2012	23,406	18,660	14,014	56,080	27,501	100.0	21.9	0.0	49.0

Note: Dollar amounts are in thousands of dollars.



TABLE 5

RECONCILIATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY

For Year Ending June 30, 2021

1. Unfunded Actuarial Accrued Liability as of June 30, 2020	\$ 37,760,310
2. Normal Cost	2,164,251
3. Actuarially Determined Contribution	(5,532,940)
4. Interest	<u>2,321,434</u>
5. Expected Unfunded Actuarial Accrued Liability as of June 30, 2021	\$ 36,713,055
6. Actuarial Value of Asset Changes	
a. Investment Experience (Gain)/Loss	\$ (2,339,932)
b. Contributions (Above)/Below the Actuarially Determined Contribution and Other (Gain)/Loss	\$ (163,431)
7. Actuarial Accrued Liability Changes	
a. Actuarial Accrued Liability Experience (Gain)/Loss	\$ (287,096)
b. Additional Liability Due to Benefit Changes	0
c. Additional Liability Due to Assumption Changes	<u>6,202,974</u>
8. Total Experience (Gain)/Loss	\$ 3,412,515
9. Unfunded Actuarial Accrued Liability as of June 30, 2021: (5) + (8)	\$ 40,125,570

**SECTION 4 – PLAN LIABILITIES**

TABLE 6
ACTUARIAL GAIN/(LOSS)

Liabilities		
1. Actuarial Accrued Liability as of June 30, 2020	\$	107,048,714
2. Normal Cost for Plan Year Ending June 30, 2021		2,164,251
3. Benefit Payments During Plan Year ¹		(5,299,345)
4. Service Purchases (employee and employer)		0
5. Interest at 6.75%		7,193,022
6. Change Due to Benefit Changes		0
7. Change Due to Assumption Changes		6,202,974
8. Expected Actuarial Accrued Liability as of June 30, 2021	\$	117,309,616
9. Actuarial Accrued Liability as of June 30, 2021	\$	117,022,520
Assets		
10. Actuarial Value of Assets as of June 30, 2020	\$	69,288,404
11. Receipts During Plan Year		5,860,860
12. Expenditures, Excluding Expenses, During Plan Year		(5,288,529)
13. Interest at 6.75%		4,696,283
14. Expected Actuarial Value of Assets as of June 30, 2021	\$	74,557,018
15. Actuarial Value of Assets as of June 30, 2021	\$	76,896,950
Experience Gain / (Loss)		
16. Liability Actuarial Experience Gain/(Loss): (8) - (9)	\$	287,096
17. Asset Actuarial Experience Gain/(Loss): (15) - (14)		2,339,932
18. Total Actuarial Experience Gain/(Loss): (16) + (17)	\$	2,627,028

¹ Does not include miscellaneous expenses or benefit overpayments.



TABLE 7
EXPERIENCE GAIN/(LOSS) ANALYSIS BY SOURCE

Liability Sources		Gain/(Loss)
Retirement	\$	(453)
Termination		(111)
Disability		(302)
Mortality		878
Salary		(1,303)
New Entrants/Rehires		(184)
Miscellaneous		1,762
Total Liability Experience Gain/(Loss)	\$	287
as a % of AAL		0.2%
Asset Experience Gain/(Loss)	\$	2,340
Total Actuarial Experience Gain/(Loss)	\$	2,627



TABLE 8
PROJECTED BENEFIT PAYMENTS

<u>Plan Year Ending June 30</u>	<u>Benefit Amount</u>
2022	\$ 6,385,325
2023	6,542,325
2024	6,719,626
2025	6,966,281
2026	7,103,618
2027	7,297,829
2028	7,462,924
2029	7,772,729
2030	8,075,248
2031	8,442,208
2032	8,749,263
2033	9,002,898
2034	9,294,966
2035	9,634,746
2036	9,664,804
2037	9,714,095
2038	9,740,028
2039	9,783,987
2040	9,756,511
2041	9,789,598
2042	9,751,356
2043	9,651,157
2044	9,465,845
2045	9,320,352
2046	9,118,380
2047	8,956,573
2048	8,803,633
2049	8,616,008
2050	8,367,283
2051	8,140,089

Note: Payouts reflect nominal payouts for current members, assuming that all future assumptions are met.



SECTION 5 – EMPLOYER CONTRIBUTIONS

The previous two sections were devoted to a discussion of the assets and liabilities of the plan. We now turn to considering how the benefits will be funded. The method used to determine the incidence of the contributions in various years is called the actuarial cost method. Under an actuarial cost method, the contributions required to meet the difference between current assets and current liabilities are allocated each year between two elements: (1) the normal cost rate and (2) the unfunded actuarial accrued liability contribution rate.

The term "fully funded" is often applied to a plan in which contributions at the normal cost rate are sufficient to pay for the benefits of existing employees as well as for those of new employees. More often than not, plans are not fully funded, either because of past benefit improvements that have not been completely funded or because of actuarial deficiencies that have occurred because experience has not been as favorable as anticipated by the actuarial assumptions. Under these circumstances, an unfunded actuarial accrued liability (UAAL) exists. Likewise, when the actuarial value of assets is greater than the actuarial accrued liability, a surplus exists.

Description of Contribution Components

The Entry Age Normal (EAN) actuarial cost method is used for the valuation. Under that method, the normal cost for each year from entry age to assumed exit age is a constant percentage of the member's year by year projected compensation. The portion of the present value of future benefits not provided by the present value of future normal costs is the actuarial accrued liability. The unfunded actuarial accrued liability/(surplus) represents the difference between the actuarial accrued liability and the actuarial value of assets as of the valuation date. The unfunded actuarial accrued liability is calculated each year and reflects experience gains and losses.

The INPRS Board of Trustees has established a funding policy of requesting appropriations from the State in an amount equal to the actuarially determined contribution. Based on the June 30, 2020 actuarial valuation, the Board requested appropriations from the State for fiscal years 2022 and 2023. This June 30, 2021 valuation will not be directly used for determining contributions. Due to the biennial cycle used to set appropriations, the contribution amount for the plan years ending June 30, 2024 and June 30, 2025 will rely on the most up-to-date plan status at that time, which is the June 30, 2022 valuation.

Contribution Summary

In Table 9, the amortization payment related to the unfunded actuarial accrued liability/(surplus), as of June 30, 2021, is developed. Table 10 develops the actuarial determined contribution rate for the Plan. The contribution rates shown in this report are based on the actuarial assumptions and cost methods described in Appendix C. Additionally, in Table 11 the contribution rates under alternative discount rates are provided to illustrate the sensitivity of the contribution requirements to the selection of the investment return assumption.



SECTION 5 – EMPLOYER CONTRIBUTIONS

TABLE 9

SCHEDULE OF AMORTIZATION BASES

Amortization Bases	Original Amount ¹	June 30, 2021 Remaining Payments	Date of Last Payment	Outstanding Balance as of June 30, 2021	Annual Contribution
2009 UAAL Base	6,201,136	16	7/1/2037	4,789,620	453,754
2010 UAAL Base	1,736,351	19	7/1/2040	1,436,902	123,581
2011 UAAL Base	1,680,350	20	7/1/2041	1,426,313	119,424
2012 UAAL Base	463,047	21	7/1/2042	402,271	32,863
2013 UAAL Base	3,556,575	22	7/1/2043	3,156,172	252,077
2014 UAAL Base	(584,092)	23	7/1/2044	(528,554)	(41,344)
2015 UAAL Base	10,811,874	24	7/1/2045	9,960,927	764,334
2016 UAAL Base	5,882,037	15	7/1/2036	5,038,350	496,254
2017 UAAL Base	10,629,681	16	7/1/2037	9,451,027	895,361
2018 UAAL Base	3,735,370	17	7/1/2038	3,435,084	314,147
2019 UAAL Base	4,504,551	18	7/1/2039	4,271,100	378,261
2020 UAAL Base	(6,283,668)	19	7/1/2040	(6,126,157)	(526,881)
2021 UAAL Base	3,412,515	20	7/1/2041	<u>3,412,515</u>	<u>285,727</u>
Total				\$ 40,125,570	\$ 3,547,558
1. Total UAAL Amortization Payments					\$ 3,547,558
2. Projected Payroll for FY 2022, Under 22 Years of Service					\$ 24,918,438
3. UAAL Amortization Payment Rate					14.24%
4. Remaining Amortization Period in Years (Weighted) ²					18.4

¹ The original amounts from 2017 to 2013 were provided by the prior actuary. Amounts prior to that were estimated by INPRS.

² The weighted average remaining UAAL amortization period is calculated by weighting the remaining amortization period of each base by the amortization amount of each base.



SECTION 5 – EMPLOYER CONTRIBUTIONS

TABLE 10

ACTUARIALLY DETERMINED CONTRIBUTION RATE

1. Projected Covered Payroll for FY 2022	\$ 24,918,438
2. Normal Cost Rate as of June 30, 2020	
a. Dollar Amount	\$ 2,196,650
b. Percent of Total Pay	8.60%
c. Percent of Covered Pay ¹	8.82%
3. Amortization of UAAL as of June 30, 2020	
a. Dollar Amount	\$ 3,547,558
b. Percent of Covered Pay ¹	14.24%
4. Total Recommended Contribution Rate: (2) + (3b)	23.06%
5. Expected Employee Contribution Rate	
a. Dollar Amount	\$ 1,495,106
b. Percent of Covered Pay ¹	6.00%
6. Actuarially Determined Contribution Rate: (4) - (5)	17.06%
7. Estimated Actuarially Determined Contribution Amount ² : (1) x (6)	\$ 4,251,086
8. Approved Funding Amount for FY 2022	\$ 4,044,194
9. Expected Percentage of Actuarially Determined Contribution Contributed	95.13%

¹ Active members with less than 22 years of service make 6% contributions.

² Due to the biennial appropriations cycle, this will not directly impact the funding of the plan. Next year, this will be used to assist with the determination of the FY 2024 and FY 2025 approved funding amounts.



SECTION 5 – EMPLOYER CONTRIBUTIONS

TABLE 11

INVESTMENT RETURN SENSITIVITY

	1.00% Decrease: (5.25%)	0.75% Decrease: (5.50%)	0.50% Decrease: (5.75%)	0.25% Decrease: (6.00%)	Current Assumption: (6.25%)
Funded Status					
Actuarial Accrued Liability	\$131,838,233	\$127,851,068	\$124,060,662	\$120,454,898	\$117,022,520
Actuarial Value of Assets	76,896,950	76,896,950	76,896,950	76,896,950	76,896,950
Unfunded Actuarial Accrued Liability	\$54,941,283	\$50,954,118	\$47,163,712	\$43,557,948	\$40,125,570
Funded Ratio	58.3%	60.1%	62.0%	63.8%	65.7%
Actuarially Determined Contribution Amount					
Normal Cost	\$2,720,569	\$2,574,731	\$2,439,347	\$2,313,576	2,196,650
UAAL Amortization	4,470,879	4,233,223	4,000,282	3,771,808	3,547,558
Expected Member Contributions	(1,495,106)	(1,495,106)	(1,495,106)	(1,495,106)	(1,495,106)
Actuarially Determined Contribution Amount	\$5,696,342	\$5,312,848	\$4,944,523	\$4,590,278	\$4,249,102
Actuarially Determined Contribution Rate	22.86%	21.32%	19.84%	18.42%	17.06%
	0.25% Increase: (6.50%)	0.50% Increase: (6.75%)	0.75% Increase: (7.00%)	1.00% Increase: (7.25%)	1.25% Increase: (7.50%)
Funded Status					
Actuarial Accrued Liability	\$113,753,075	\$110,636,843	\$107,664,784	\$104,828,478	\$102,120,084
Actuarial Value of Assets	76,896,950	76,896,950	76,896,950	76,896,950	76,896,950
Unfunded Actuarial Accrued Liability	\$36,856,125	\$33,739,893	\$30,767,834	\$27,931,528	\$25,223,134
Funded Ratio	67.6%	69.5%	71.4%	73.4%	75.3%
Actuarially Determined Contribution Amount					
Normal Cost	\$2,087,871	\$1,986,598	\$1,892,246	\$1,804,282	\$1,722,215
UAAL Amortization	3,327,317	3,110,877	2,898,045	2,688,635	2,482,480
Expected Member Contributions	(1,495,106)	(1,495,106)	(1,495,106)	(1,495,106)	(1,495,106)
Actuarially Determined Contribution Amount	\$3,920,082	\$3,602,368	\$3,295,185	\$2,997,811	\$2,709,589
Actuarially Determined Contribution Rate	15.73%	14.46%	13.22%	12.03%	10.87%



SECTION 6 – GASB INFORMATION

GASB NO. 67 AND GASB NO. 68

The Governmental Accounting Standards Board issued Statement No. 67 (GASB 67), “Financial Reporting for Pension Plans” and Statement No. 68 (GASB 68), “Accounting and Financial Reporting for Pensions” in June 2012. The effective date for reporting under GASB 67 for the INPRS Plans was the fiscal year ending June 30, 2014. GASB 68’s effective date for employers is the first fiscal year beginning after June 15, 2014.

The sections that follow provide the results of the required actuarial calculations set out in GASB 67 and GASB 68 for note disclosure and Required Supplementary Information (RSI). Some of this information was provided by the INPRS for use in this report.

The discount rate used for these disclosures is the assumed return on assets of 6.25%. We have verified that the current assets in conjunction with future contributions made on behalf of current members (including all contributions to fund any past service liability) will be sufficient to make the anticipated benefit payments to be provided to the current members.

To the best of our knowledge, the information contained in this report is complete and accurate. The calculations were performed by qualified actuaries according to generally accepted actuarial principles and practices, as well as in conformity with Actuarial Standards of Practice issued by the Actuarial Standards Board. The calculations are based on the current provisions of the plan, and on actuarial assumptions that are internally consistent and individually reasonable based on the actual experience of the plan. In addition, the calculations were completed in compliance with applicable law and, in our opinion, meet the requirements of GASB 67 and GASB 68.



TABLE 12
STATEMENT OF FIDUCIARY NET POSITION

	June 30, 2021
1. Assets	
a. Cash	\$ 0
b. Receivables	
i. Contributions and Miscellaneous Receivables	\$ 7,267
ii. Investments Receivable	664,593
iii. Foreign Exchange Contracts Receivable	15,225,615
iv. Interest and Dividends	177,745
v. Receivables Due From Other Funds	0
vi. Total Receivables	\$ 16,075,220
c. Investments	
i. Short-Term Investments	\$ 0
ii. Pooled Repurchase Agreements	757,992
iii. Pooled Short-Term Investments	5,325,297
iv. Pooled Fixed Income	26,132,960
v. Pooled Equity	18,251,540
vi. Pooled Alternative Investments	39,395,601
vii. Pooled Derivatives	231,453
viii. Pooled Investments	0
ix. Securities Lending Collateral	443,566
x. Total Investments	\$ 90,538,409
d. Net Capital Assets	0
e. Other Assets	0
f. Total Assets: a + b(vi) + c(x) + d + e	\$ 106,613,629
2. Liabilities	
a. Administrative Payable	\$ 2,654
b. Retirement Benefits Payable	0
c. Investments Payable	4,144,723
d. Foreign Exchange Contracts Payable	15,114,667
e. Securities Lending Obligations	443,566
f. Securities Sold Under Agreement to Repurchase	1,032,390
g. Due To Other Funds	6,704
h. Due to Other Governments	0
i. Total Liabilities: a + b + c + d + e + f + g + h	\$ 20,744,704
3. Fiduciary Net Position Restricted for Pensions: (1)(f) - (2)(i)	\$ 85,868,925



TABLE 13

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION

		For Fiscal Year Ending June 30, 2021
1. Fiduciary Net Position as of June 30, 2020		\$ 67,875,761
2. Additions		
a. Contributions		
i. Member Contributions	\$	1,459,352
ii. Employer Contributions		4,401,508
iii. Service Purchases (Employer and Member)		0
iv. Non-Employer Contributing Entity Contributions		0
v. Total Contributions	\$	5,860,860
b. Investment Income/(Loss)		
i. Net Appreciation/(Depreciation)	\$	17,109,768
ii. Net Interest and Dividend Income		949,435
iii. Securities Lending Income		4,607
iv. Other Net Investment Income		4,843
v. Investment Management Expenses		(556,429)
vi. Direct Investment Expenses		(19,476)
vii. Securities Lending Expenses		(954)
viii. Total Investment Income/(Loss)	\$	17,491,794
c. Other Additions		
i. Member Reassignments		0
ii. Miscellaneous Receipts		0
iii. Total Other Additions	\$	0
d. Total Revenue (Additions): a(v) + b(viii) + c(iii)	\$	23,352,654
3. Deductions		
a. Pension, Survivor and Disability Benefits	\$	5,147,970
b. Death and Funeral Benefits		0
c. Distributions of Contributions and Interest		140,559
d. Administrative Expenses		70,961
e. Member Reassignments		0
f. Miscellaneous Expenses		0
g. Total Expenses (Deductions)	\$	5,359,490
4. Net Increase (Decrease) in Fiduciary Net Position: (2)(d) - (3)(g)	\$	17,993,164
5. Fiduciary Net Position as of June 30, 2021: (1) + (4)	\$	85,868,925



TABLE 14

SCHEDULE OF CHANGES IN NET PENSION LIABILITY

	For Fiscal Year Ending June 30, 2021		
	Total Pension Liability	Plan Fiduciary Net Position	Net Pension Liability
	(a)	(b)	(a) – (b)
1. Balance at June 30, 2020	\$ 107,048,714	\$ 67,875,761	\$ 39,172,953
2. Changes for the Year:			
Service Cost (SC) ¹	2,164,251		2,164,251
Interest Cost	7,193,387		7,193,387
Experience (Gains)/Losses	(298,277)		(298,277)
Assumption Changes	6,202,974		6,202,974
Plan Amendments	0		0
Benefit Payments ²	(5,288,529)	(5,288,529)	0
Service Purchases			
Employer Contributions	0	0	0
Employee Contributions	0	0	0
Member Reassignments	0	0	0
Employer Contributions ³		4,401,508	(4,401,508)
Non-employer Contributions		0	0
Employee Contributions		1,459,352	(1,459,352)
Net Investment Income		17,491,794	(17,491,794)
Administrative Expenses		(70,961)	70,961
Other		0	0
Net Changes	\$ 9,973,806	\$ 17,993,164	\$ (8,019,358)
3. Balance at June 30, 2021	\$ 117,022,520	\$ 85,868,925	\$ 31,153,595

¹ Service cost provided as of beginning of year. Interest to end of year is included in the interest cost.

² Includes refund of member contributions of \$140,559.

³ Includes \$4,401,508 of state appropriations to the fund.



TABLE 15
DEFERRED OUTFLOWS OF RESOURCES

	June 30, 2020	Remaining Period	Recognition	June 30, 2021
1. Liability Experience				
June 30, 2021 Loss	\$ 0	2.06	\$ 0	\$ 0
June 30, 2020 Loss	0	1.08	0	0
June 30, 2019 Loss	0	0.00	0	0
June 30, 2018 Loss	0	0.00	0	0
June 30, 2017 Loss	0	0.00	0	0
June 30, 2016 Loss	0	0.00	0	0
June 30, 2015 Loss	0	0.00	0	0
June 30, 2014 Loss	0	0.00	0	0
2. Assumption Changes				
June 30, 2021 Loss	\$ 6,202,974	2.06	\$ 3,011,153	\$ 3,191,821
June 30, 2020 Loss	0	1.08	0	0
June 30, 2019 Loss	0	0.00	0	0
June 30, 2018 Loss	0	0.00	0	0
June 30, 2017 Loss	0	0.00	0	0
June 30, 2016 Loss	0	0.00	0	0
June 30, 2015 Loss	0	0.00	0	0
3. Investment Experience				
June 30, 2021 Loss	\$ 0	5.00	\$ 0	\$ 0
June 30, 2020 Loss	2,171,144	4.00	542,787	1,628,357
June 30, 2019 Loss	0	3.00	0	0
June 30, 2018 Loss	0	2.00	0	0
June 30, 2017 Loss	0	1.00	0	0
Total Outflows:				
(1)+(2)+(3)	\$ 8,374,118		\$ 3,553,940	\$ 4,820,178

Information was provided prospectively from June 30, 2013 for GASB No. 68 purposes. Results prior to 2018 were produced by the prior actuary.

In accordance with GASB, the original amortization period for liability experience and assumption changes are amortized over the expected future working lifetime of all members, whereas the investment experience is amortized over five years.



TABLE 16
DEFERRED INFLOWS OF RESOURCES

	June 30, 2020	Remaining Period	Recognition	June 30, 2021
1. Liability Experience				
June 30, 2021 Gain	\$ 298,277	2.06	\$ 144,795	\$ 153,482
June 30, 2020 Gain	1,306,048	1.08	1,209,304	96,744
June 30, 2019 Gain	0	0.00	0	0
June 30, 2018 Gain	0	0.00	0	0
June 30, 2017 Gain	0	0.00	0	0
June 30, 2016 Gain	0	0.00	0	0
June 30, 2015 Gain	0	0.00	0	0
June 30, 2014 Gain	0	0.00	0	0
2. Assumption Changes				
June 30, 2021 Gain	\$ 0	2.06	\$ 0	\$ 0
June 30, 2020 Gain	2,602,451	1.08	2,409,678	192,773
June 30, 2019 Gain	0	0.00	0	0
June 30, 2018 Gain	0	0.00	0	0
June 30, 2017 Gain	0	0.00	0	0
June 30, 2016 Gain	0	0.00	0	0
June 30, 2015 Gain	0	0.00	0	0
3. Investment Experience				
June 30, 2021 Gain	\$ 12,893,259	5.00	\$ 2,578,652	\$ 10,314,607
June 30, 2020 Gain	0	4.00	0	0
June 30, 2019 Gain	221,832	3.00	73,944	147,888
June 30, 2018 Gain	583,504	2.00	291,753	291,751
June 30, 2017 Gain	128,898	1.00	128,898	0
Total Inflows:				
(1)+(2)+(3)	\$ 18,034,269		\$ 6,837,024	\$ 11,197,245

Information was provided prospectively from June 30, 2013 for GASB No. 68 purposes. Results prior to 2018 were produced by the prior actuary.

In accordance with GASB, the original amortization period for liability experience and assumption changes are amortized over the expected future working lifetime of all members, whereas the investment experience is amortized over five years.



TABLE 17

DEFERRED INFLOWS / OUTFLOWS TO BE RECOGNIZED IN PENSION EXPENSE

Fiscal Year Ending June 30	Deferred Outflows	Deferred Inflows	Net Deferred Outflows/(Inflows)
Current Year:			
2021	\$ 3,553,940	\$ 6,837,024	\$ (3,283,084)
Future Years:			
2022	\$ 3,553,940	\$ 3,378,659	\$ 175,281
2023	723,455	2,661,283	(1,937,828)
2024	542,783	2,578,652	(2,035,869)
2025	0	2,578,651	(2,578,651)
2026	0	0	0
Thereafter	0	0	0



TABLE 18
PENSION EXPENSE UNDER GASB NO. 68

		For Fiscal Year Ending June 30, 2021
1. Service Cost, beginning of year	\$	2,164,251
2. Interest Cost, including interest on service cost		7,193,387
3. Member Contributions		(1,459,352)
4. Administrative Expenses		70,961
5. Expected Return on Assets ¹		(4,598,535)
6. Plan Amendments		0
7. Recognition of Deferred Inflows / Outflows of Resources Related to:		
a. Liability Experience (Gains) / Losses	(1,354,099)	
b. Assumption Change (Gains) / Losses	601,475	
c. Investment Experience (Gains) / Losses	<u>(2,530,460)</u>	
d. Total: (7a)+(7b)+(7c)		(3,283,084)
8. Miscellaneous (Income) / Expense		0
9. Total Collective Pension Expense: (1)+(2)+(3)+(4)+(5)+(6)+(7d)+(8)		87,628
10. Employer Service Purchases		0
Pension Expense / (Income): (9) + (10)	\$	87,628

¹ Cash flows assumed to occur mid-year.



**GASB NO. 67 and GASB NO. 68
NOTES TO THE FINANCIAL STATEMENTS**

The material presented herein is a subset of the information requested as Notes to the Financial Statements. Required information not provided herein is to be supplied by the plan.

Actuarial Assumptions and Inputs

Significant actuarial assumptions and other inputs used to measure the total pension liability:

Type of Plan	The Prosecuting Attorneys’ Retirement Fund is a single-employer plan for GASB accounting purposes.
Measurement Date	June 30, 2021
Valuation Date	June 30, 2021
Assets:	June 30, 2021
Liabilities:	June 30, 2020 – The TPL as of June 30, 2021 was determined based on an actuarial valuation prepared as of June 30, 2020 rolled forward one year to June 30, 2021, using the following key actuarial assumptions and other inputs, such as benefit accruals and actual benefit payments during that time period.
Inflation	2.00%
Future Salary Increases	2.65%
Cost-of-Living Increases	None.
Mortality Assumption	Pub-2010 Public Retirement Plans Mortality Tables (Amount-Weighted) with a fully generational projection of mortality improvements using SOA Scale MP-2019. <i>Healthy Employees</i> – General Employee table with a 1 year setback for males and a 1 year setback for females. <i>Retirees</i> – General Retiree table with a 1 year setback for males and a 1 year setback for females. <i>Beneficiaries</i> – Contingent Survivor table with no set forward for males and a 2 year set forward for females. <i>Disableds</i> – General Disabled table with a 140% load.



SECTION 6 – GASB INFORMATION

Experience Study	<p>The most recent comprehensive experience study, based on member experience between June 30, 2014 and June 30, 2019, was completed in February 2020. The demographic assumptions were approved by the Board in June 2020 and were used beginning with the June 30, 2020 actuarial valuation. Economic assumptions were updated and approved by the Board in May 2021 following the completion of an Asset-Liability study and first used in the June 30, 2021 actuarial valuation.</p>
Discount Rate	<p>6.25%, net of investment expenses</p> <p>The discount rate is equal to the expected long-term rate of return on plan investments, net of investment expense and including price inflation. The discount rate decreased from the 6.75% used on the prior measurement date.</p> <p>The INPRS Board of Trustees has established a funding policy of requesting appropriations from the State in an amount equal to the actuarially determined contribution, which is based on the assumptions and methods selected by the Board for the annual actuarial valuations and projected covered member payroll. The June 30, 2021 actuarial valuation assumes a long-term rate of return on assets of 6.25%, a 20-year level dollar closed method for amortizing the future layers of unfunded actuarial accrued liability (30 years for amortization layers established prior to June 30, 2016), and a 5-year smoothing method for recognizing investment gains and losses in the actuarial value of assets.</p>



SECTION 6 – GASB INFORMATION

Discount Rate Sensitivity

	1% Decrease 5.25%	Current Rate 6.25%	1% Increase 7.25%
Net Pension Liability	\$45,969,308	\$31,153,595	\$18,959,553

Classes of Plan Members Covered

The June 30, 2021 valuation was performed using census data provided by INPRS as of June 30, 2020. Standard actuarial techniques were used to roll forward the total pension liability computed as of June 30, 2020 to the June 30, 2021 measurement date using actual benefit payments during that period of time.

Number as of June 30, 2020	
1. Currently Receiving Benefits:	
Retired Members, Disabled Members, and Beneficiaries	185
2. Inactive Members Entitled To But Not Yet Receiving Benefits	104
3. Inactive Non-vested Members Entitled to a Refund of Member Contributions	141
4. Active Members	198
Total Covered Plan Members: (1)+(2)+(3)+(4)	628

Money-Weighted Rate of Return

The money-weighted rate of return equals investment performance, net of pension plan investment expense, adjusted for the changing amounts actually invested. For the fiscal year ending June 30, 2021, the money-weighted return on the plan assets is 25.5%.

Components of Net Pension Liability

As of June 30, 2021	
Total Pension Liability	\$ 117,022,520
Fiduciary Net Position	85,868,925
Net Pension Liability	\$ 31,153,595
Ratio of Fiduciary Net Position to Total Pension Liability	73.38%



SECTION 6 – GASB INFORMATION

GASB NO. 67 AND GASB NO. 68: REQUIRED SUPPLEMENTAL INFORMATION

SCHEDULE OF CHANGES IN THE TOTAL PENSION LIABILITY AND PLAN FIDUCIARY NET POSITION

Fiscal Year Ending June 30	2017	2018	2019	2020	2021
Total Pension Liability					
Total Pension Liability - beginning	\$85,033,204	\$96,655,305	\$103,283,935	\$110,081,262	\$107,048,714
Service Cost (SC), beginning-of-year	1,649,825	1,947,022	2,031,234	2,067,197	2,164,251
Interest Cost, including interest on SC	5,713,781	6,520,834	6,959,164	7,402,135	7,193,387
Experience (Gains)/Losses	1,996,389	2,155,542	2,239,818	(2,515,352)	(298,277)
Assumption Changes	(215,798)	0	0	(5,012,129)	6,202,974
Plan Amendments	6,546,752	0	0	0	0
Actual Benefit Payments	(4,068,848)	(3,994,768)	(4,432,889)	(4,974,399)	(5,288,529)
Member Reassignments	0	0	0	0	0
Service Purchases	0	0	0	0	0
Net Change in Total Pension Liability	11,622,101	6,628,630	6,797,327	(3,032,548)	9,973,806
(a) Total Pension Liability - ending	\$96,655,305	\$103,283,935	\$110,081,262	\$107,048,714	\$117,022,520
Plan Fiduciary Net Position					
Plan Fiduciary Net Position – beginning	\$52,791,683	\$55,575,347	\$61,019,100	\$65,522,813	\$67,875,761
Contributions – employer	1,485,700	3,013,800	3,215,600	4,232,219	4,401,508
Contributions – non-employer	0	0	0	0	0
Contributions – member	1,357,689	1,294,661	1,307,323	1,439,332	1,459,352
Net investment income	4,166,573	5,217,727	4,489,006	1,729,887	17,491,794
Actual benefit payments	(4,068,848)	(3,994,768)	(4,432,889)	(4,974,399)	(5,288,529)
Net member reassignments	0	0	0	0	0
Administrative expense	(157,450)	(87,667)	(75,327)	(74,091)	(70,961)
Other	0	0	0	0	0
Net change in Plan Fiduciary Net Position	2,783,664	5,443,753	4,503,713	2,352,948	17,993,164
(b) Plan Fiduciary Net Position - ending	\$55,575,347	\$61,019,100	\$65,522,813	\$67,875,761	\$85,868,925
Net Pension Liability - ending, (a) - (b)	\$41,079,958	\$42,264,835	\$44,558,449	\$39,172,953	\$31,153,595

Information was provided prospectively from June 30, 2013 for GASB No. 67 and GASB No. 68 purposes. Results prior to 2018 were produced by the prior actuary.



SECTION 6 – GASB INFORMATION

GASB NO. 67 AND GASB NO. 68: REQUIRED SUPPLEMENTAL INFORMATION

SCHEDULE OF CHANGES IN THE TOTAL PENSION LIABILITY AND PLAN FIDUCIARY NET POSITION

(continued)

Fiscal Year Ending June 30	2013	2014	2015	2016
Total Pension Liability				
Total Pension Liability - beginning	\$56,079,955	\$61,940,389	\$65,336,440	\$77,860,653
Service Cost (SC), beginning-of-year	1,568,461	1,586,626	1,602,704	1,625,509
Interest Cost, including interest on SC	3,815,835	4,207,150	4,408,568	5,238,761
Experience (Gains)/Losses	1,473,837	0	4,550,500	4,058,049
Assumption Changes	(108,430)	0	5,216,488	0
Plan Amendments	1,345,781	0	0	0
Actual Benefit Payments	(2,235,050)	(2,397,725)	(3,254,047)	(3,746,129)
Member Reassignments	0	0	0	0
Service Purchases	0	0	0	(3,639)
Net Change in Total Pension Liability	5,860,434	3,396,051	12,524,213	7,172,551
(a) Total Pension Liability - ending	\$61,940,389	\$65,336,440	\$77,860,653	\$85,033,204
Plan Fiduciary Net Position	0			
Plan Fiduciary Net Position – beginning	\$27,690,288	\$47,919,739	\$54,507,492	\$53,423,166
Contributions – employer	19,443,392	1,173,800	1,062,800	1,439,900
Contributions – non-employer	0	0	0	0
Contributions – member	1,271,481	1,333,635	1,268,695	1,278,678
Net investment income	1,894,508	6,583,284	(34,881)	588,570
Actual benefit payments	(2,235,050)	(2,397,725)	(3,254,047)	(3,746,129)
Net member reassignments	0	0	0	0
Administrative expense	(144,880)	(105,241)	(126,893)	(192,502)
Other	0	0	0	0
Net change in Plan Fiduciary Net Position	20,229,451	6,587,753	(1,084,326)	(631,483)
(b) Plan Fiduciary Net Position - ending	\$47,919,739	\$54,507,492	\$53,423,166	\$52,791,683
Net Pension Liability - ending, (a) - (b)	\$14,020,650	\$10,828,948	\$24,437,487	\$32,241,521

Information was provided prospectively from June 30, 2013 for GASB No. 67 and GASB No. 68 purposes. Results prior to 2018 were produced by the prior actuary.



SECTION 6 – GASB INFORMATION

GASB NO. 67 AND GASB NO. 68: REQUIRED SUPPLEMENTAL INFORMATION
SCHEDULE OF THE NET PENSION LIABILITY

Table with two sections showing pension liability data for fiscal years 2017-2021 and 2013-2016. Rows include Total Pension Liability, Plan Fiduciary Net Position, Net Pension Liability, Ratio of Plan Fiduciary Net Position to Total Pension Liability, Covered-employee payroll, and Net Pension Liability as a percentage of covered-employee payroll.

1 As provided by INPRS.

Information was provided prospectively from June 30, 2013 for GASB No. 67 and GASB No. 68 purposes. Results prior to 2018 were produced by the prior actuary.



SECTION 6 – GASB INFORMATION

GASB NO. 67 AND GASB NO. 68: REQUIRED SUPPLEMENTAL INFORMATION

SCHEDULE OF EMPLOYER CONTRIBUTIONS

Fiscal Year Ending June 30	2017	2018	2019	2020	2021
Actuarially Determined Contribution ¹	\$2,148,027	\$2,533,280	\$3,543,168	\$4,608,280	\$5,042,062
Actual employer contributions	<u>\$1,485,700</u>	<u>\$3,013,800</u>	<u>\$3,215,600</u>	<u>\$4,232,219</u>	<u>\$4,401,508</u>
Annual contribution (deficiency) / excess	(\$662,327)	\$480,520	(\$327,568)	(\$376,061)	(\$640,554)
Covered-employee payroll ²	\$22,634,637	\$21,578,191	\$21,790,699	\$23,988,963	\$24,322,536
Actual contributions as a percentage of covered-employee payroll	6.56%	13.97%	14.76%	17.64%	18.10%

Fiscal Year Ending June 30	2013	2014	2015	2016
Actuarially Determined Contribution ¹	\$2,542,470	\$2,345,144	\$1,418,829	\$1,380,629
Actual employer contributions	<u>\$19,443,392</u>	<u>\$1,173,800</u>	<u>\$1,062,800</u>	<u>\$1,439,900</u>
Annual contribution (deficiency) / excess	\$16,900,922	(\$1,171,344)	(\$356,029)	\$59,271
Covered-employee payroll ²	\$18,805,255	\$20,607,596	\$21,144,991	\$21,371,967
Actual contributions as a percentage of covered-employee payroll	103.39%	5.70%	5.03%	6.74%

¹ Actuarially determined contribution rate was developed in the actuarial funding valuation completed one year prior to the fiscal year.

This rate was applied to the actual covered employee payroll for the fiscal year to determine the contribution amount.

² As provided by INPRS.

Information was provided prospectively from June 30, 2013 for GASB No. 67 and GASB No. 68 purposes. Results prior to 2018 were produced by the prior actuary.



GASB NO. 67 AND GASB NO. 68: REQUIRED SUPPLEMENTAL INFORMATION

SCHEDULE OF MONEY-WEIGHTED RETURNS

<u>For Fiscal Year Ending June 30</u>	<u>Money-Weighted Return</u>
2021	25.5%
2020	2.6%
2019	7.3%
2018	9.3%
2017	7.9%
2016	1.1%
2015	(0.1%)
2014	13.7%
2013	4.8%

Information was provided prospectively from June 30, 2013 for GASB No. 67 and GASB No. 68 purposes. Returns were provided by INPRS.



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<i>A glossary of actuarial terms used in the valuation report.</i>	



APPENDIX A: MEMBERSHIP DATA

MEMBER DATA RECONCILIATION
For June 30, 2020 Data used in the June 30, 2021 Valuation

Table with 8 columns: Active Members, Inactive Vested, Inactive Nonvested, Disabled, Retired, Beneficiary, Total. Rows include: 1. As of June 30, 2019 (Total 617); 2. Data Adjustments (Net Change 11); 3. As of June 30, 2020 (Total 628).

1 The valuation results were calculated using the prior year's census data and were adjusted for certain activity during fiscal year.

**APPENDIX A: MEMBERSHIP DATA****SUMMARY OF MEMBERSHIP DATA**

	June 30, 2020	June 30, 2021	% Change
Date of Membership Data ¹	June 30, 2019	June 30, 2020	
ACTIVE MEMBERS			
Number of Active Members	205	198	(3.4%)
Annual Membership Data Salary	23,747,618	23,844,913	0.4%
Anticipated Covered Pay for Next Fiscal Year ²	24,780,599	24,918,438	0.6%
Active Member Averages			
Age	47.8	47.2	(1.3%)
Service	8.4	7.8	(7.1%)
Annual Membership Data Salary	\$ 115,842	\$ 120,429	4.0%
INACTIVE MEMBERS			
Number of Members			
Inactive Vested	101	104	3.0%
Inactive Non-Vested	142	141	(0.7%)
Total	243	245	0.8%
Inactive Vested Member Averages			
Age	56.1	56.2	0.1%
Service	14.1	14.5	2.9%
RETIREES, DISABLEDS, AND BENEFICIARIES			
Number of Members			
Retired	152	163	7.2%
Disabled	2	3	50.0%
Beneficiaries	15	19	26.7%
Total	169	185	9.5%
Annual Benefits			
Retired	\$ 4,218,045	\$ 4,607,891	9.2%
Disabled	97,313	128,199	31.7%
Beneficiaries	173,786	203,893	17.3%
Total	\$ 4,489,144	\$ 4,939,983	10.0%

¹ The valuation results were calculated using the prior year's census data and were adjusted for certain activity during fiscal year.

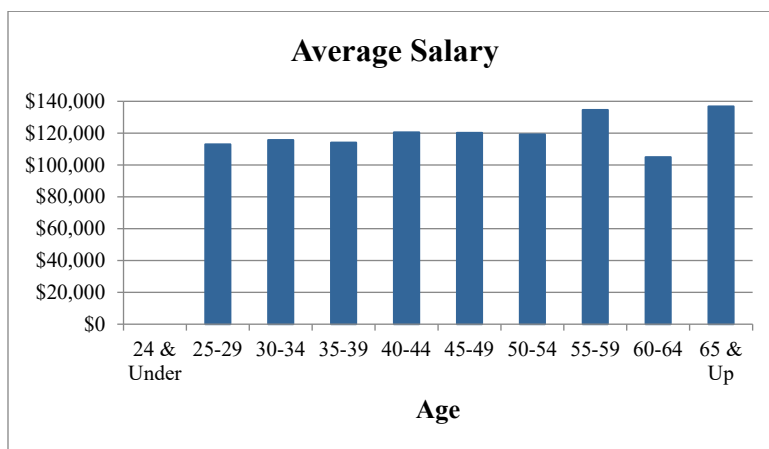
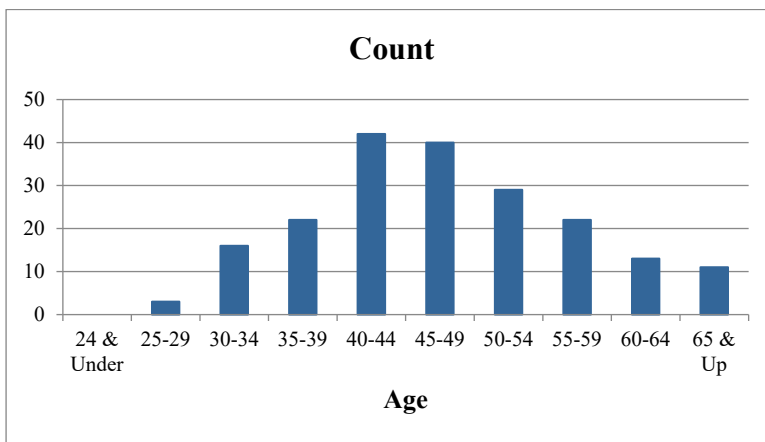
² Actual pay for contributing members with less than 22 years of service for the fiscal year ending on the valuation date, rolled forward at the known pay increase of 2.45%.



APPENDIX A: MEMBERSHIP DATA

**ACTIVE MEMBERS
As of June 30, 2019 for the June 30, 2020 Valuation**

<u>Age</u>	<u>Count of Members</u>			<u>FY 2020 Annual Membership Data Salary</u>		
	<u>Male</u>	<u>Female</u>	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
24 & Under	0	0	0	\$ 0	\$ 0	\$ 0
25-29	1	2	3	112,882	225,765	338,647
30-34	11	5	16	1,297,986	552,539	1,850,525
35-39	10	12	22	1,174,024	1,335,460	2,509,484
40-44	33	9	42	4,032,746	1,026,508	5,059,254
45-49	34	6	40	4,022,569	783,278	4,805,847
50-54	22	7	29	2,704,122	750,291	3,454,413
55-59	19	3	22	2,583,123	376,275	2,959,398
60-64	12	1	13	1,295,453	67,548	1,363,001
65 & Up	<u>8</u>	<u>3</u>	<u>11</u>	<u>1,128,822</u>	<u>375,522</u>	<u>1,504,344</u>
Total	150	48	198	\$ 18,351,727	\$ 5,493,186	\$ 23,844,913





APPENDIX A – MEMBERSHIP DATA

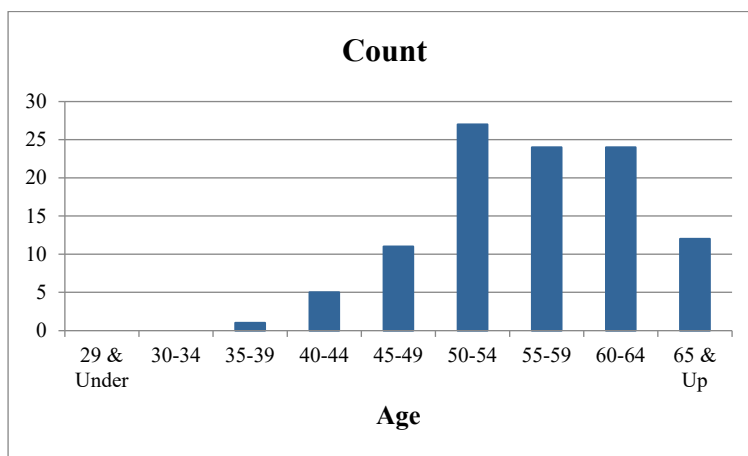
**AGE AND SERVICE DISTRIBUTION
As of June 30, 2019 for the June 30, 2020 Valuation**

Age		0-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 34	Total
24 & Under	Number	0	0	0	0	0	0	0	0	0
	Total Salary	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Average Sal.	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
25-29	Number	3	0	0	0	0	0	0	0	3
	Total Salary	\$ 338,647	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 338,647
	Average Sal.	\$ 112,882	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 112,882
30-34	Number	11	5	0	0	0	0	0	0	16
	Total Salary	\$ 1,210,858	\$ 639,667	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 1,850,525
	Average Sal.	\$ 110,078	\$ 127,933	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 115,658
35-39	Number	15	7	0	0	0	0	0	0	22
	Total Salary	\$ 1,606,425	\$ 903,059	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 2,509,484
	Average Sal.	\$ 107,095	\$ 129,008	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 114,067
40-44	Number	23	10	9	0	0	0	0	0	42
	Total Salary	\$ 2,727,106	\$ 1,278,581	\$ 1,053,567	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 5,059,254
	Average Sal.	\$ 118,570	\$ 127,858	\$ 117,063	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 120,458
45-49	Number	11	10	10	8	1	0	0	0	40
	Total Salary	\$ 1,018,441	\$ 1,307,345	\$ 1,238,481	\$ 1,090,443	\$ 151,137	\$ 0	\$ 0	\$ 0	\$ 4,805,847
	Average Sal.	\$ 92,586	\$ 130,735	\$ 123,848	\$ 136,305	\$ 151,137	\$ 0	\$ 0	\$ 0	\$ 120,146
50-54	Number	8	6	7	4	4	0	0	0	29
	Total Salary	\$ 838,382	\$ 662,886	\$ 824,322	\$ 526,784	\$ 602,039	\$ 0	\$ 0	\$ 0	\$ 3,454,413
	Average Sal.	\$ 104,798	\$ 110,481	\$ 117,760	\$ 131,696	\$ 150,510	\$ 0	\$ 0	\$ 0	\$ 119,118
55-59	Number	3	9	4	3	3	0	0	0	22
	Total Salary	\$ 347,428	\$ 1,181,501	\$ 564,411	\$ 413,902	\$ 452,156	\$ 0	\$ 0	\$ 0	\$ 2,959,398
	Average Sal.	\$ 115,809	\$ 131,278	\$ 141,103	\$ 137,967	\$ 150,719	\$ 0	\$ 0	\$ 0	\$ 134,518
60-64	Number	4	2	4	1	2	0	0	0	13
	Total Salary	\$ 398,670	\$ 187,385	\$ 421,427	\$ 112,882	\$ 242,637	\$ 0	\$ 0	\$ 0	\$ 1,363,001
	Average Sal.	\$ 99,668	\$ 93,693	\$ 105,357	\$ 112,882	\$ 121,319	\$ 0	\$ 0	\$ 0	\$ 104,846
65 & Up	Number	3	1	0	5	2	0	0	0	11
	Total Salary	\$ 375,522	\$ 150,509	\$ 0	\$ 714,921	\$ 263,392	\$ 0	\$ 0	\$ 0	\$ 1,504,344
	Average Sal.	\$ 125,174	\$ 150,509	\$ 0	\$ 142,984	\$ 131,696	\$ 0	\$ 0	\$ 0	\$ 136,759
Total	Number	81	50	34	21	12	0	0	0	198
	Total Salary	\$ 8,861,479	\$ 6,310,933	\$ 4,102,208	\$ 2,858,932	\$ 1,711,361	\$ 0	\$ 0	\$ 0	\$ 23,844,913
	Average Sal.	\$ 109,401	\$ 126,219	\$ 120,653	\$ 136,140	\$ 142,613	\$ 0	\$ 0	\$ 0	\$ 120,429



INACTIVE VESTED MEMBERS
As of June 30, 2019 for the June 30, 2020 Valuation

<u>Age</u>	<u>Count of Members</u>		
	<u>Male</u>	<u>Female</u>	<u>Total</u>
29 & Under	0	0	0
30-34	0	0	0
35-39	1	0	1
40-44	5	0	5
45-49	7	4	11
50-54	20	7	27
55-59	17	7	24
60-64	22	2	24
65 & Up	<u>9</u>	<u>3</u>	<u>12</u>
Total	81	23	104

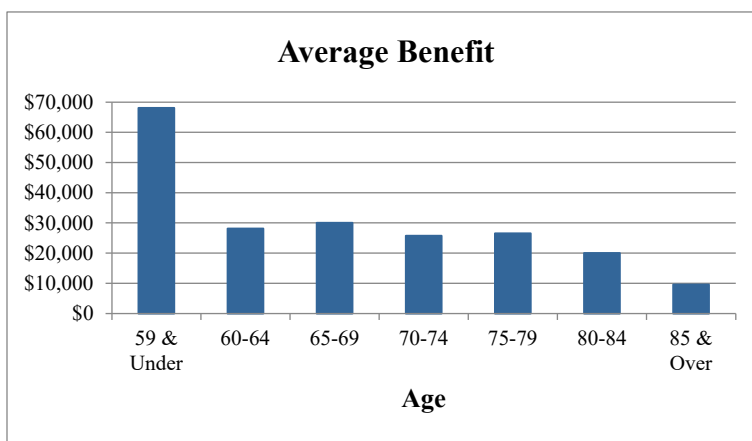
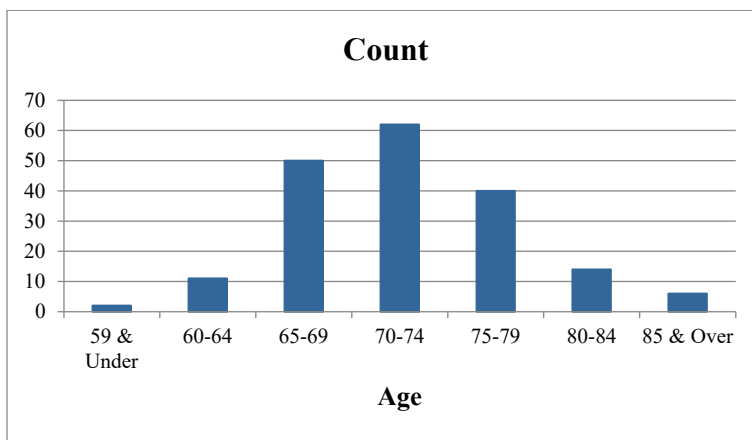




APPENDIX A – MEMBERSHIP DATA

**MEMBERS AND BENEFICIARIES RECEIVING BENEFITS
As of June 30, 2019 for the June 30, 2020 Valuation**

Age	Count of Members			Annual Benefits		
	Male	Female	Total	Male	Female	Total
59 & Under	2	0	2	\$ 136,071	\$ 0	\$ 136,071
60-64	9	2	11	278,184	31,008	309,192
65-69	36	14	50	1,222,635	277,933	1,500,568
70-74	53	9	62	1,404,704	190,448	1,595,152
75-79	36	4	40	997,020	64,540	1,061,560
80-84	13	1	14	277,094	2,793	279,887
85 & Over	<u>1</u>	<u>5</u>	<u>6</u>	<u>10,656</u>	<u>46,897</u>	<u>57,553</u>
Total	150	35	185	\$ 4,326,364	\$ 613,619	\$ 4,939,983





APPENDIX A – MEMBERSHIP DATA

MEMBERS AND BENEFICIARIES RECEIVING BENEFITS
As of June 30, 2019 for the June 30, 2020 Valuation

Schedule of Average Benefit Payments ¹

For the Year Ended June 30, 2021	Years of Credited Service						Total
	< 10	10 - 14	15 - 19	20 - 24	25 - 29	30 +	
Average Monthly Defined Benefit	\$1,396	\$1,834	\$2,354	\$2,713	\$3,049	\$2,463	\$2,225
Average Final Average Salary ²	\$83,138	\$73,878	\$86,973	\$95,024	\$117,542	\$127,002	\$88,414
Number of Benefit Recipients	16	65	41	34	17	12	185

Schedule of Benefit Recipients by Type of Benefit Option ¹

Amount of Monthly Benefit (in dollars)	Number of Recipients by Benefit Option			Total Benefit Recipients
	Joint with 50% Survivor Benefits	Survivors	Disability	
1 - 500	7	4	0	11
501 - 1,000	21	8	0	29
1,001 - 1,500	25	5	0	30
1,501 - 2,000	21	2	1	24
2,001 - 2,500	20	0	0	20
2,501 - 3,000	22	0	1	23
Over 3,000	47	0	1	48
Total	163	19	3	185

¹ Calculated using the prior year census data, adjusted for certain activity during the fiscal year.

² Excludes the 17 in-pay members who are missing a final average salary in the data.



APPENDIX A – MEMBERSHIP DATA

MEMBERS AND BENEFICIARIES RECEIVING BENEFITS
As of June 30, 2019 for the June 30, 2020 Valuation

	<u>Added to Rolls</u>		<u>Removed from Rolls</u>		<u>Rolls - End of Year</u>		Percent Change In Total Annual Benefits	Average Annual Benefit	Percent Change In Average Annual Benefit
	Number	Annual Benefits ¹	Number	Annual Benefits ¹	Number	Total Annual Benefits ^{1,2}			
2021 ³	19	\$595	3	\$63	185	\$4,940	10.0%	\$26,703	0.5%
2020 ³	18	632	1	20	169	4,489	15.3	26,563	3.7
2019 ³	9	168	2	25	152	3,892	3.8	25,605	(1.0)
2018 ³	9	307	2	28	145	3,749	7.9	25,853	2.7
2017 ³	5	140	0	0	138	3,474	4.3	25,176	0.5
2016 ³	26	937	0	0	133	3,332	39.1	25,056	11.9
2015 ³	14	319	2	14	107	2,395	14.0	22,385	1.2
2014 ³	0	0	0	0	95	2,101	0.0	22,118	0.0
2013	15	362	1	27	95	2,101	18.7	22,118	1.2
2012	6	178	1	27	81	1,770	9.4	21,853	2.7

¹ Annual benefit dollar amounts are in thousands.

² End of year annual benefits are not equal to prior end of year annual benefits plus additions less removals due to beneficiary benefit changes, data changes, and COLA increases.

³ The valuation results were calculated using the prior year census data, adjusted for certain activity during the fiscal year.



APPENDIX B – SUMMARY OF PLAN PROVISIONS

Definitions

Fiscal year	Twelve month period ending June 30.
Participation	All individuals serving as a prosecuting attorney or chief deputy prosecuting attorney in Indiana on or after January 1, 1990.
Earnings	Earnings is the highest annual salary attributable to service as a prosecuting attorney or chief deputy at the time of separation from service. The highest annual salary is the sum of the highest completed consecutive 12 months of salary paid to the member before retirement. It also includes the 6% contributions that are now picked up by the employer (effective in 2013). Amounts paid to a participant by a county or counties are not included.
Member contributions	Each member is required to contribute to the Fund at the rate of 6% of pay until completion of 22 year of service. These contributions are kept on deposit and credited with interest until such time as they are refunded or used to provide the annuity benefit at retirement.
PERF offset	The PERF offset is the actual PERF benefit amount the member is receiving for members who commence their PERF benefit before their PARF benefit.

Eligibility for Benefits

Deferred vested	8 or more years of creditable service and no longer active.
Disability retirement	Qualify for Social Security disability benefits or federal Civil Service disability benefits.
Early retirement	Age 62 with 8 or more years of creditable service.
Normal retirement	Earliest of: <ul style="list-style-type: none">- Age 65 with 8 or more years of creditable service.- Age 55 with sum of age and creditable service equal to 85 or more.
Pre-retirement death	8 or more years of creditable service entitled to a future benefit.



APPENDIX B – SUMMARY OF PLAN PROVISIONS

Monthly Benefits Payable

Normal retirement

The normal retirement benefit is a monthly annuity payable for life with a 50% continuation (or \$12,000 annually, if greater) to a surviving spouse or surviving dependent children. The benefit is equal to a percentage of earnings in accordance with the following table:

Years of Service	Percentage
Less than 8	0%
8	24%
9	27%
10	30%
11	33%
12	50%
13	51%
14	52%
15	53%
16	54%
17	55%
18	56%
19	57%
20	58%
21	59%
22 or more	60%

The percentages shown above are prorated for partial years of creditable service.

The benefit is reduced by the pension, if any, being paid from PERF (annuity payments from the DC account are not included in this calculation).

Early retirement

The early retirement benefit is the accrued retirement benefit determined as of the early retirement date and payable commencing at the normal retirement date. A participant may elect to have the benefit commence prior to normal retirement provided the benefit is reduced by 0.25% for each month that the benefit commencement date precedes the normal retirement date. The benefit is reduced by the pension, if any, being paid from PERF.

Deferred retirement

The termination benefit is the accrued retirement benefit determined as of the termination date and payable commencing as of the normal retirement date. The participant may elect to receive a reduced early retirement benefit. The benefit is reduced by the pension, if any, being paid from PERF.



APPENDIX B – SUMMARY OF PLAN PROVISIONS

Disability

The disability retirement benefit is payable for the duration of the disability commencing the month following disability date without reduction for early commencement. The amount of monthly benefit shall be equal to a percentage of the annual salary paid to the member at the time of separation from service in accordance with the following table:

Years of Service	Percentage
Less than 12	50%
12	50%
13	51%
14	52%
15	53%
16	54%
17	55%
18	56%
19	57%
20	58%
21	59%
22 or more	60%

The percentages shown above are prorated for partial years of creditable service.

The benefit is reduced by the pension, if any, being paid from PERF (annuity payments from the DC account are not included in this calculation).

Death

The spouse or dependent beneficiary is entitled to receive 50% of the monthly life annuity the participant was receiving or was entitled to receive (or \$12,000 annually, if greater) under the assumption that the participant retired on the later of age 62 or the day before the date of death. The benefit is reduced by the pension, if any, being paid from PERF to the surviving spouse. Annuity payments from the DC account are not included in this calculation.

Forms of payment

a. Single life annuity

Member will receive a monthly benefit for life, but there are no monthly payments to anyone after death.

b. Joint with one-half survivor benefits

Member will be paid a monthly benefit for life. After death, one-half (1/2) of the benefit will be paid to the spouse for their lifetime or the dependent until age 18 unless disabled. If the dependent child was named the beneficiary, once they are no longer entitled to the benefit, the spouse would receive the benefit for life.

Changes in Plan Provisions since the Prior Year – None.



ACTUARIAL METHODS

1. Actuarial Cost Method

The actuarial cost method is Entry Age Normal - Level Percent of Payroll.

The normal cost is calculated separately for each active member and is equal to the level percentage of payroll needed as an annual contribution from entry age to retirement age to fund projected benefits. The actuarial accrued liability on any valuation date is the accumulated value of such normal costs from entry age to the valuation date.

For funding, gains and losses occurring from census experience different than assumed, assumption changes, and benefit changes are amortized over a 20-year period with level payments each year. A new gain or loss base is established each year based on the additional gain or loss during that year and that base is amortized over a new 20-year period (gain or loss bases established prior to June 30, 2016 were amortized over 30 years and will continue to be amortized over 30 -year period). However, when the plan is at or above 100% funded (based on Actuarial Value of Assets), the past amortization bases are considered fully amortized and a single amortization base equal to the surplus is amortized over a 30-year period with level payments each year. The purpose of the method is to give a smooth progression of the costs from year to year and, at the same time, provide for an orderly funding of the unfunded liabilities.

For accounting, gains and losses occurring from census experience different than assumed and assumption changes are amortized into expense over the average expected future service of all plan participants. Gains and losses occurring from investment experience different than assumed are amortized into expense over a 5-year period. The effect of plan changes on the plan liability are fully recognized in expense in the year in which they occur.

Member census data as of June 30, 2020 was used in the valuation and adjusted, where appropriate, to reflect changes between June 30, 2020 and June 30, 2021. The valuation results from June 30, 2020 were rolled forward to June 30, 2021 to reflect benefit accruals during the year less benefits paid.

2. Asset Valuation Method

The Actuarial Value of Assets smoothes the recognition of gains and losses on the Market Value of Assets over five years, subject to a 20% corridor.

3. Anticipated Payroll

The anticipated payroll for the fiscal year following the valuation date is equal to the actual payroll during the year ending on the valuation date, increased with the actual pay adjustment as of the valuation date. The proportion of pay attributable to active members with more than 22 years of service is presumed constant.

4. Employer Contribution Rate

Based on the assumptions and methods previously described, an actuarially determined contribution amount is computed for each employer. The Board considers this information when requesting funds from the State.

Changes in Methods since the Prior Year – None.



APPENDIX C – SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS

ACTUARIAL ASSUMPTIONS

Valuation Date June 30, 2021

Economic Assumptions

- 1. Investment return 6.25% per year, compounded annually (net of administrative and investment expenses)
- 2. Inflation 2.00% per year
- 3. Salary increase 2.65% per year
- 4. Interest on member balances 3.30% per year
- 5. Cost-of-Living Adjustment (COLA) None

Demographic Assumptions

1. Mortality Pub-2010 Public Retirement Plans Mortality Tables (Amount-Weighted) with a fully generational projection of mortality improvements using SOA Scale MP-2019.

Healthy Employees – General Employee table with a 1 year setback for males and a 1 year setback for females.

Retirees – General Retiree table with a 1 year setback for males and a 1 year setback for females.

Beneficiaries – Contingent Survivor table with no set forward for males and a 2 year set forward for females.

Disableds – General Disabled table with a 140% load.

2. Disability

Sample Rates		
Age	Male	Female
20	0.004%	0.003%
25	0.008%	0.006%
30	0.014%	0.010%
35	0.024%	0.018%
40	0.042%	0.032%
45	0.080%	0.061%
50	0.160%	0.124%
55+	0.300%	0.200%



APPENDIX C – SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS

3. Retirement

Age	Eligible for Reduced Benefit	Eligible for Unreduced Benefit
55-61	N/A	40%
62-64	20%	40%
65-69	N/A	50%
70+	N/A	100%

Inactive vested members are assumed to commence their retirement benefit at their earliest unreduced eligible retirement date (age 62, or current age if greater).

4. Termination

10% per year for all members prior to retirement eligibility.

Other Assumptions

1. Form of payment

Members are assumed to elect either a single life annuity or a 50% joint survivor benefit based on the marriage assumptions below.

2. Marital status

a. Percent married

90% of participants are assumed either to be married or to have a dependent beneficiary.

b. Spouse’s age

Male members are assumed to be three (3) years older than their spouses and female members are assumed to be two (2) years younger than their spouses.

3. Decrement timing

Decrements are assumed to occur at the beginning of the year.

4. PERF benefit commencement timing

For active and inactive vested members, 75% are assumed to commence their benefit at earliest PERF eligibility and 25% are assumed to commence at the assumed PARF commencement.

Elected officials can commence their PERF benefit while active in PARF. Non-elected officials need to terminate their employment prior to commence their PERF benefit.



APPENDIX C – SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS

Changes in Assumptions since the Prior Year

As a result of the Asset-Liability work completed and discussed at the May 7, 2021 Board meeting, the Board made portfolio revisions and adopted a new set of economic assumptions for the June 30, 2021 actuarial valuations as follows:

- The investment return assumption was lowered from 6.75% (as of June 30, 2020) to 6.25%.
- Price inflation was lowered from 2.25% (as of June 30, 2020) to 2.00%.
- General wage inflation was lowered from 2.75% (as of June 30, 2020) to 2.65%.
- Interest on member balances was lowered from 3.50% (as of June 30, 2020) to 3.30%.

Data Adjustments

Active and retired member data is reported as of June 30. Member census data as of June 30, 2020 was used in the valuation and adjusted, where appropriate, to reflect changes between June 30, 2020 and June 30, 2021. Standard actuarial roll-forward techniques were then used to project the total pension liability computed as of June 30, 2020 to the June 30, 2021 measurement date.

The member total payroll and the asset information for this valuation were furnished as of June 30, 2021. We did not audit the information provided, but we did review it thoroughly for reasonableness and compared it with the prior year's submission for consistency.

Spouse gender is assumed to be the opposite gender of the member. Additionally, payroll for new hires is annualized.

Other Technical Valuation Procedures

Salary increases are assumed to apply to annual amounts.

Decrements are assumed to occur at the beginning of the year. Standard adjustments are made for multiple decrements.

No actuarial liability is included for participants who terminated without being vested prior to the valuation date, except those due a refund of contributions.



APPENDIX D – GLOSSARY OF ACTUARIAL TERMS

Accrued Service	Service credited under the system that was rendered before the date of the actuarial valuation.
Actuarial Assumptions	Estimates of future experience with respect to demographic or economic events. Demographic assumptions (rates of mortality, disability, turnover and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (salary increases and investment income) consist of an underlying rate in an inflation-free environment plus a provision for a long-term average rate of inflation.
Actuarial Cost Method	A mathematical budgeting procedure for allocating the dollar amount of the actuarial present value of retirement system benefits between future normal cost and actuarial accrued liability. Sometimes referred to as the “actuarial funding method.”
Actuarial Equivalent	A single amount or series of amounts of equal value to another single amount or series of amounts computed on the basis of a given set of actuarial assumptions.
Actuarial Accrued Liability	The difference between the actuarial present value of system benefits and the actuarial value of future normal costs. Also referred to as “accrued liability” or “actuarial liability.”
Actuarial Present Value	The amount of funds currently required to provide a payment or series of payments in the future. It is determined by discounting future payments at predetermined rates of interest and by probabilities of payment.
Amortization	Paying off an interest-discounted amount with periodic payments of interest and principal, as opposed to paying off with lump sum payment.
Experience Gain (Loss)	The difference between actual experience and actuarial assumptions anticipated experience during the period between two actuarial valuation dates.
Normal Cost	The actuarial present value of retirement system benefits allocated to the current year by the actuarial cost method.
Unfunded Actuarial Accrued Liability	<p>The difference between actuarial liability and the actuarial value of assets. Sometimes referred to as “unfunded accrued liability” or “unfunded liability”.</p> <p>Most retirement systems have unfunded actuarial liability. They arise anytime new benefits are added and anytime an actuarial loss is realized.</p>