

The experience and dedication you deserve

Indiana Public Retirement System

Legislators' Defined Benefit Fund

Actuarial Valuation as of June 30, 2020





The experience and dedication you deserve

November 6, 2020

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 Legislators' Defined Benefit Fund (LE DB) as of June 30, 2020, for the purpose of estimating the actuarial required contribution for the plan year ending June 30, 2022. The major findings of the valuation are contained in this report, which reflects the benefit and funding provisions in place on June 30, 2020. There were no changes in the benefit provisions or actuarial methods from last year. However, this report reflects the updated economic and demographic assumptions proposed in the 2014-2019 Experience Study that were adopted by the Board in June 2020. Please refer to that Study (available on the INPRS web site) 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 LE DB 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 2020 valuations to the Board on February 21, 2020, and the Board subsequently adopted their use. These assumptions are applicable to both the funding and Governmental Accounting Standards Board (GASB) Statement Number 67 valuation calculations, unless otherwise noted.

Board of Trustees November 6, 2020 Page 2



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.

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 LE DB 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, 2020 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 Comprehensive Annual Financial Report (CAFR) for INPRS contains several exhibits that disclose the actuarial position of the System. This annual report, prepared as of June 30, 2020, provides data and tables that we prepared for use in the following sections of the CAFR:

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

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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,

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

Chief Actuary

Edward Koebel, FCA, EA, MAAA

Edward J. Worbel

Chief Executive Officer

Virginia Fritz, FSA, EA, FCA, MAAA

Brent a Bande

Senior Actuary



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SECTION 1 - BOARD SUMMARY FOR COMBINED BASE AND SUPPLEMENTAL BENEFITS

This report presents the results of the June 30, 2020 actuarial valuation of the Legislators' Defined Benefit Fund (LE DB). The primary purposes of performing this actuarial valuation are to:

- Determine the level of contributions for the plan year ending June 30, 2022, along with the actuarial surcharge amount for the 2021 calendar year, that will be sufficient to meet the funding policy set out by the Board to comply with Indiana statutes.
- Disclose asset and liability measurements as well as the plan's funded status on the valuation date.
- Compare actual and expected experience of the Fund during the plan year ending June 30, 2020.
- Analyze and report on trends in plan contributions, assets and liabilities over the past several years.

VALUATION RESULTS

The 2014-2019 Experience Study was presented to the Board in February 2020 and the recommended assumptions and methods were adopted by the Board at their June meeting. Once the Asset-Liability Model work is completed, there may be a need to propose revised economic assumptions, particularly if the work leads to significant changes in the investment portfolio. There were no changes to the plan benefits, actuarial methods, or funding policy between the June 30, 2019 and June 30, 2020 valuations.

The actuarial valuation results provide a "snapshot" view of the Plan's financial condition on June 30, 2020. The plan's unfunded actuarial accrued liability (UAAL) decreased from \$337.0 thousand last year to \$141.4 thousand this year and the funded ratio increased from 90% to 95%. Several factors contributed to this decrease in funded status, including a decrease on liabilities due to assumption changes made to better reflect the plan experience shown in the 2014-2019 Experience Study (an \$87 thousand decrease when including the base and supplemental plan benefits), along with additional liability experience gains. These were offset by smaller than expected returns on the actuarial value of assets as losses are realized.

A summary of the key results from the June 30, 2020 actuarial valuation compared to the June 30, 2019 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, 2019		June 30, 2020
Unfunded Actuarial Accrued Liability	\$	337,040	\$	141,418
Funded Ratio (Actuarial Assets)		89.98%		95.48%
N. 10 A	ф	0	Ф	0
Normal Cost	\$	0	\$	0
UAAL Amortization		155,810		144,602
Expenses		37,710		37,910
Actuarially Determined Contribution	\$	193,520	\$	182,512
Surcharge Amount	\$	9,024	\$	19,119

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, 2019 and June 30, 2020.



ASSETS

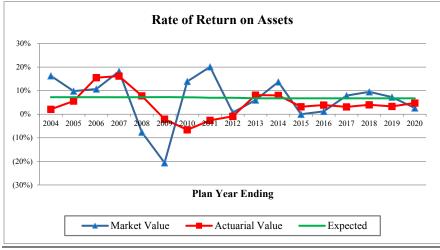
As of June 30, 2020, the plan had net assets of \$2.9 million, when measured on a market value basis. This was a decrease of \$102 thousand from the prior year.

The market value of assets is not used directly in the calculation of the unfunded actuarial accrued liability and the actuarial required contribution rate. An asset valuation method, which smoothes the effect of market fluctuations, is applied to determine the value of assets used in the valuation, termed the actuarial value of assets. In this year's valuation, the actuarial value of assets is \$3.0 million, decreasing about \$40 thousand from the prior year.

The unfunded actuarial accrued liability on both a market value and actuarial value of assets basis is shown as of June 30, 2020 in the following table:

	M	arket Value	Actuarial Value		
Net Assets, June 30, 2019	\$	3,026,306	\$	3,025,792	
- Employer and Member Contributions	+	207,615	+	207,615	
- Benefit Payments	-	349,143	-	349,143	
- Net Investment Income	+	39,456	+	101,759	
Net Assets, June 30, 2020	\$	2,924,234	\$	2,986,023	
Estimated Rate of Return, Net of Expenses		2.6%		4.8%	

The estimated rate of return on the actuarial value of assets was 4.8%, which was lower than the 6.75% investment return assumption applicable for the year ended June 30, 2020. As a result, there was an experience loss on assets of \$59 thousand. The estimated investment return on the market value of assets for FY 2020 of 2.6% resulted in a change in the deferred investment experience from a net deferred investment gain of \$500 in last year's valuation to a net deferred investment loss of \$62 thousand 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.

June 30, 2020 Actuarial Valuation



LIABILITIES

Because the LE DB is a closed plan in which no benefits are being earned, the actuarial accrued liability is simply the present value of future benefits. 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 unfunded actuarial accrued liability on both a market value and actuarial value of assets basis is shown as of June 30, 2020 in the following table:

	Ma	ırket Value	Actuarial Value		
Actuarial Accrued Liability	\$	3,127,441	\$	3,127,441	
Value of Assets		2,924,234		2,986,023	
Unfunded Actuarial Accrued Liability	\$	203,207	\$	141,418	
Funded Ratio		93.50%		95.48%	

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

The total plan UAAL (on an actuarial value basis) as of June 30, 2020 was \$141 thousand, a net decrease of \$196 thousand from the prior year. The most significant impact on this change was an \$87 thousand reduction in liabilities due to assumption changes along with additional gains from favorable liability experience. The funding policy continues to bring this plan closer to full funding. The components of the change in the base 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 on the base plan benefits.

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 thousands).

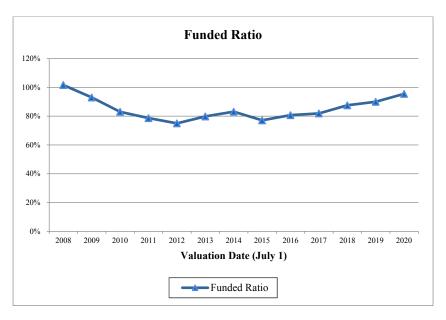
	6/30/2016	6/30/2017	6/30/2018	6/30/2019	6/30/2020
Funded Ratio	80.7%	81.9%	87.5%	90.0%	95.5%
UAAL (in thousands)	\$775.0	\$689.6	\$434.6	\$337.0	\$141.4

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 FOR COMBINED BASE AND SUPPLEMENTAL BENEFITS

The funded ratio over a longer period of years is shown in the following graph. The plan's funded status has been steady for a number of years, though has been increasing. Over the past five years, the plan status have increased considerably from 81% to 95%.



Because the closed plan is winding down and due to its small relative size, there is not as much concern with regard to the plan funded status. Presumably the State of Indiana, if needed, will provide any small funding allocations to allow a gradual wind-down of the plan.

ACTUARIALLY DETERMINED CONTRIBUTION AMOUNT

The plan's actuarially determined contribution rate consists of two components:

- 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. Because of the frozen benefits, this will always be \$0.
- 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 five years for each amortization base. This is reasonable given the relatively short duration of the plan. Because the COLA portion of the benefits may be funded through lottery proceeds or direct appropriation, this portion of the benefit only considers the base benefit without any COLA. If the Fund's funded ratio exceeds 100% on a combined basis (base benefits plus future assumed COLAs), 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.



SECTION 1 - BOARD SUMMARY FOR COMBINED BASE AND SUPPLEMENTAL BENEFITS

The actuarially determined contribution is therefore the sum of the amortization amount and anticipated expenses. While an amount could be allocated annually from the lottery proceeds to fund future COLAs, this amount is small enough that it is reasonable to wait until the actual benefit adjustments are known. Presumably, this valuation would be used to determine the funding amount needed on July 1, 2021, which shows a contribution of \$19,119 would be needed by March 31, 2021 (or \$19,441 by July 1, 2021).

See Table 11 of this report for the detailed development of the contribution amounts which are summarized in the following table:

Contribution Amount	Jur	ne 30, 2019	June 30, 2020		
N. 10	Ф	0	Ф	0	
Normal Cost	\$	0	\$	0	
UAAL Amortization		155,810		144,602	
Expenses		37,710		37,910	
Actuarially Determined Contribution	\$	193,520	\$	182,512	
Approved/Requested Funding Amount	\$	207,615	\$	182,512	
Expected Percent Contributed		107.28%		100.00%	
Surcharge Amount	\$	9,024	\$	19,119	

The Board will recommend appropriation amounts to the Indiana Legislature for FY 2022 and FY 2023 based on this June 30, 2020 valuation. The \$182,512 number shown in the table above is appropriate for FY 2022. In keeping with past practice, the Board will recommend that amount for FY 2023 as well.



SUMMARY OF PRINCIPAL RESULTS

	J	une 30, 2018	2018 June 30, 2019			une 30, 2020
MEMBERSHIP						
Active Members		9		8		7
Retired Members and Beneficiaries		76		78		79
Disabled Members		0		0		0
Inactive Members		10		9		6
Total Members		95		95		92
Annual Retirement Payments for Retirees,						
Disableds, and Beneficiaries	\$	357,472	\$	364,193	\$	363,889
ASSETS AND LIABILITIES						
Market Value of Assets (MVA)	\$	2,941,623	\$	3,026,306	\$	2,924,234
Actuarial Value of Assets (AVA)		3,050,387		3,025,792		2,986,023
Actuarial Accrued Liability (AAL)		3,484,974		3,362,832		3,127,441
Unfunded Actuarial Accrued Liability (UAAL):						
AAL - AVA	\$	434,587	\$	337,040	\$	141,418
Funded Ratios						
AVA / AAL		87.53%		89.98%		95.48%
MVA / AAL		84.41%		89.99%		93.50%
CONTRIBUTIONS						
Normal Cost	\$	0	\$	0	\$	0
Amortization of UAAL		143,864		155,810		144,602
Expenses		63,751		37,710		37,910
Actuarially Determined Contribution	\$	207,615	\$	193,520	\$	182,512
Approved Funding Amount 1	\$	207,615	\$	207,615	\$	182,512
Surplus/(Shortfall)	\$	0	\$	14,095	\$	0
Surcharge Amount	\$	8,462	\$	9,024	\$	19,119

¹ Current year funding amount is anticipated to be used by the Legislature to determine the appropriations for the next biennium, including FY 2022 and FY 2023.

Note: Liability and funded ratio results include both the base benefit and supplemental benefit.

CM

SECTION 2 - SCOPE OF THE REPORT

This report presents the actuarial valuation results of the Legislators' Defined Benefit Fund as of June 30, 2020. 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, 2020.
- 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.



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, 2020. 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 13 (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, 2019	June 30, 2020
1. Market Value of Assets, Beginning of Year	\$	2,941,623	\$ 3,026,306
2. Receipts			
a. Member	\$	0	\$ 0
b. Employer		269,200	207,615
c. Transfers In		0	0
d. Miscellaneous		0	0
e. Total	\$	269,200	\$ 207,615
3. Expenditures			
a. Benefit Payments	\$	355,575	\$ 349,143
b. Refund of Contributions		0	0
c. Administrative Expense		37,710	37,910
d. Transfers Out		0	0
e. Miscellaneous		0	0
f. Total	\$	393,285	\$ 387,053
4. Investment Return			
a. Investment Income	\$	208,531	\$ 77,203
b. Securities Lending Income		237	163
c. Total Investment Return	\$	208,768	\$ 77,366
5. Market Value of Assets, End of Year: (1) + (2e) - (3f) + (4c)	\$	3,026,306	\$ 2,924,234
6. Estimated Rate of Return ¹		7.25%	2.63%

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



TABLE 2 DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS

		For Plan Year E	nding	June 30, 2020
1. Market Value as of June 30, 2019			\$	3,026,306
2. Receipts			\$	207,615
3. Expenditures, including Administrative Ex	penses		\$	(387,053)
4. Expected Return on Assets ¹			\$	198,220
5. Expected Market Value as of June 30, 2020	0: $(1) + (2) + (3) + (4)$		\$	3,045,088
6. Actual Market Value as of June 30, 2020			\$	2,924,234
7. Year End 2020 Asset Gain/(Loss): (6) -	(5)		\$	(120,854)
8. Deferred Investment Gains and Losses				
	Year Ended June 30: Gain/(Lo	oss) Factor		Deferred Amount
	a. 2017 \$ (20,	,872) 20%	\$	(4,174)
	b. 2018 76	5,075 40%		30,430
	c. 2019 14	1,396 60%		8,638
	d. 2020 (120,	,854) 80%		(96,683)
	e. Total		\$	(61,789)
9. Initial Actuarial Value as of June 30, 2020:	(6) - (8e)		\$	2,986,023
10. Constraining Values				
a. 80% of Market Value: (6) x 0.8			\$	2,339,387
b. 120% of Market Value: (6) x 1.2			\$	3,509,081
11. Actuarial Value as of June 30, 2020			\$	2,986,023
12. Actuarial Rate of Return ²				4.76%
13. Actuarial Value of Assets as a Percent of	Market Value: (11)/(6)			102.1%

 $^{^{\}rm 1}$ Assumes cash flows occur at mid-year and a return assumption of 6.75%. $^{\rm 2}$ Assumes cash flows occur at mid-year.

CM

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 Legislators' Defined Benefit Fund as of the valuation date, June 30, 2020. 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, 2020 Legislators' Defined Benefit Fund valuation are based on census data collected as of June 30, 2019. Standard actuarial techniques are used to adjust these results from June 30, 2019 to June 30, 2020. While these roll-forward techniques are based on all actuarial assumptions being met during the intervening year, there will, of course, be many of the assumptions that will not be 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, 2020.

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 perform 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 Traditional Unit Cost method is used to develop the actuarial accrued liability. This amount is split between the base benefit and the COLA benefit. Once permanent COLAs have been granted, the obligation for future payments will also be included. Because the plan benefits are frozen, this results in all of the liability being attributed to past service. As a result, there is no normal cost for this plan.



TABLE 3

ACTUARIAL ACCRUED LIABILITY

(Base and Supplemental Benefits)

Supplemental

	Benefits								
As of June 30, 2020	Base Benefits			Granted		Future		Total	
Actuarial Accrued Liability a. Active Members b. Inactive Vested Members c. In-pay Members	\$	239,647 220,573 2,595,663	\$	0 0 0	\$	5,730 6,510 59,318	\$	245,377 227,083 2,654,981	
d. Total 2. Actuarial Value of Assets	\$ \$	3,055,883 2,986,023	\$ \$	0	\$	71,558	\$ \$	3,127,441 2,986,023	
3. Unfunded Actuarial Accrued Liability: (1c) - (2)	\$	69,860	\$	0	\$	71,558	\$	141,418	
4. Funded Ratio: (2) / (1d)		97.7%		N/A		0.0%		95.5%	



TABLE 4

SOLVENCY TEST

(Base and Supplemental Benefits)

	Actuarial Accrued Liabilities (AAL)					Portion of AAL Covered by Assets			
			Active					Active	
			Member	Total				Member	Total
Actuarial	Active		(Employer	Actuarial	Actuarial	Active		(Employer	Actuarial
Valuation as	Member	Retirees and	Financed	Accrued	Value of	Member	Retirees and	Financed	Accrued
of June 30	Contributions	Beneficiaries	Portion)	Liabilities	Assets	Contributions	Beneficiaries	Portion)	Liabilities
2020	\$0	\$2,655	\$472	\$3,127	\$2,986	N/A	100.0%	70.1%	95.5%
2019	0	2,747	616	3,363	3,026	N/A	100.0	45.3	90.0
2018	0	2,783	702	3,485	3,050	N/A	100.0	38.1	87.5
2017	0	3,013	791	3,804	3,114	N/A	100.0	12.8	81.9
2016	0	3,207	809	4,016	3,241	N/A	100.0	4.2	80.7
2015	0	3,213	1,115	4,328	3,336	N/A	100.0	11.0	77.1
2014	0	3,076	1,097	4,173	3,467	N/A	100.0	35.6	83.1
2013	0	3,192	1,103	4,295	3,428	N/A	100.0	21.4	79.8
2012	0	3,031	1,472	4,503	3,377	N/A	100.0	23.5	75.0
2011	0	3,037	1,584	4,621	3,634	N/A	100.0	37.7	78.6

Note: Dollar amounts are in thousands of dollars.



TABLE 5

RECONCILIATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY (Base Benefits)

For Year En	ding Jun	ie 30, 2020
1. Unfunded Actuarial Accrued Liability as of June 30, 2019	\$	267,517
2. Normal Cost and Expenses		37,710
3. Actuarially Determined Contribution		(193,519)
4. Interest		7,540
5. Expected Unfunded Actuarial Accrued Liability as of June 30, 2020	\$	119,248
6. Actuarial Value of Asset Changes		
a. Investment Experience (Gain)/Loss	\$	58,516
b. Contributions (Above)/Below the Actuarially Determined Contribution		
and Other (Gain)/Loss	\$	(9,106)
7. Actuarial Accrued Liability Changes		
a. Actuarial Accrued Liability Experience (Gain)/Loss	\$	(15,432)
b. Additional Liability Due to Benefit Changes		0
c. Additional Liability Due to Assumption Changes		(83,366)
8. Total Experience (Gain)/Loss	\$	(49,388)
9. Unfunded Actuarial Accrued Liability as of June 30, 2020: (5) + (8)	\$	69,860



TABLE 6

ACTUARIAL GAIN/(LOSS)

(Base Benefits)

Liabilities

1. Actuarial Accrued Liability as of June 30, 2019	\$	3,293,309
2. Normal Cost for Plan Year Ending June 30, 2020		0
3. Benefit Payments During Plan Year ¹		(349,143)
4. Service Purchases (employee and employer)		0
5. Interest at 6.75%		210,515
6. Change Due to Benefit Changes		0
7. Change Due to Assumption Changes		(83,366)
8. Expected Actuarial Accrued Liability as of June 30, 2020	\$	3,071,315
9. Actuarial Accrued Liability as of June 30, 2020	\$	3,055,883
Assets		
10. Actuarial Value of Assets as of June 30, 2019	\$	3,025,792
11. Receipts During Plan Year	·	207,615
12. Expenditures and Expenses During Plan Year		(387,053)
13. Interest at 6.75%		198,185
14. Expected Actuarial Value of Assets as of June 30, 2020	\$	3,044,539
15. Actuarial Value of Assets as of June 30, 2020	\$	2,986,023
Experience Gain / (Loss)		
16. Liability Actuarial Experience Gain/(Loss): (8) - (9)	\$	15,432
17. Asset Actuarial Experience Gain/(Loss): (15) - (14)	*	(58,516)
18. Total Actuarial Experience Gain/(Loss): (16) + (17)	\$	(43,084)

¹ Does not include miscellaneous expenses or benefit overpayments.



TABLE 7 EXPERIENCE GAIN/(LOSS) ANALYSIS BY SOURCE (Base Benefits)

Liability Sources (in thousands)	Ga	in/(Loss)
Detirement	¢	1.1
Retirement	\$	11
Termination		0
Disability		0
Mortality		9
Salary		0
Miscellaneous/COLA		(5)
Total Liability Experience Gain/(Loss)	\$	15
as a % of AAL		0.5%
Asset Experience Gain/(Loss)	\$	(59)
Total Actuarial Experience Gain/(Loss)	\$	(43)



TABLE 8

PROJECTED BENEFIT PAYMENTS

(Base and Supplemental Benefits)

Plan Year Ending June 30	Benefit Amount
2021	\$ 385,868
2022	370,007
2023	355,263
2024	338,417
2025	321,007
2026	303,227
2027	285,271
2028	267,318
2029	249,528
2030	232,035
2031	214,945
2032	198,353
2033	182,331
2034	167,018
2035	152,439
2036	138,543
2037	125,368
2038	112,945
2039	101,342
2040	90,558
2041	80,545
2042	71,305
2043	62,835
2044	55,120
2045	48,140
2046	41,863
2047	36,254
2048	31,269
2049	26,861
2050	22,984

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

CM

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 Traditional Unit Credit actuarial cost method is used for the valuation. Because this plan is frozen, there is no normal cost under the plan. In this situation, the present value of future benefits and the actuarial accrued liability are the same. 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.

In general, contributions are computed in accordance with a level annual contribution funding objective. The actuarially determined contribution amount in the June 30, 2020 LE DB actuarial valuation will be used for contributions in the plan year ending June 30, 2022. It is anticipated that this amount will be used by the Board in determining the appropriations to request from the State for the next biennium, which includes fiscal years 2022 and 2023.

Contribution Summary

In Table 9 the amortization payment related to the unfunded actuarial accrued liability/(surplus), as of June 30, 2020, is developed. The funding needed to fund the assumed COLAs is developed in Table 10. Table 11 develops the actuarial required 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 12 the contribution amounts under alternative discount rates are provided to illustrate the sensitivity of the contribution requirements relative to the selection of the investment return assumption.



TABLE 9

SCHEDULE OF AMORTIZATION BASES

(Base Benefits)

Amortization Bases	Original Amount	June 30, 2020 Remaining Payments	Date of Last Payment	Outstanding Balance as of June 30, 2020	Annual Contribution
2016 UAAL Base	775,040	1	7/1/2021	175,889	175,889
2017 UAAL Base	49,968	2	7/1/2022	21,962	11,340
2018 UAAL Base	(191,086)	3	7/1/2023	(122,044)	(43,365)
2019 UAAL Base	52,640	4	7/1/2024	43,441	11,946
2020 UAAL Base	(49,388)	5	7/1/2025	(49,388)	(11,208)
Total				\$ 69,860	\$ 144,602
Total UAAL Amortizatio	n Payments				\$ 144,602
Remaining Amortization	0.4				

¹ 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.



TABLE 10

DEVELOPMENT OF SURCHARGE RATE

(Supplemental Benefits)

Projected COLAs in Next Biennium Beginning July 1, 2021

First Anticipated COLA 1. Date of COLA commencement 2. Rate of COLA	Ja	nuary 1, 2022 0.4%
3. Value as of July 1, 2021 of COLA	\$	10,380
Second Anticipated COLA		
4. Date of COLA commencement	Ja	nuary 1, 2023
5. Rate of COLA		0.4%
6. Value as of July 1, 2021 of COLA		9,061
7. Total COLA Funding Requirement as of July 1, 2021: (3) + (6)	\$	19,441
Funding Sources for Projected COLAs		
8. Assets as of June 30, 2020 Available for Future COLAs	\$	0
9. Expected Earnings through July 1, 2021		0
10. Projected Available Assets at July 1, 2021	\$	0
11. Required Additional Funding for Anticipated COLAs: (7) - (10)	\$	19,441
Surcharge Amount		
12. Annual Payment for FYE 2021 ¹	\$	19,119
12. Thindar Laymont 101 F L 2021	Ψ	17,117

¹ Assumes payment on March 31, 2021.



TABLE 11

ACTUARIALLY DETERMINED CONTRIBUTION AMOUNT

(Base and Supplemental Benefits)

	Base Benefits		Supplemental Benefits		Total	
1. Normal Cost as of June 30, 2019	\$	0	\$	0	\$	0
2. Amortization of UAAL as of June 30, 2020		144,602				
3. Expenses		37,910				
4. Preliminary Actuarially Determined Contribution Amount: (1) + (2) + (3)	\$	182,512				
5. Supplemental Benefit Funding				19,119		
6. Actuarially Determined Contribution Amount ¹ Subject to Legal Constraints	\$	182,512	\$	19,119		
7. Approved Funding Amount for Fiscal Year 2022	\$	182,512	\$	TBD	\$	182,512
8. Expected Percentage of Contribution: (7) / (6)		100.00%		TBD		

¹ 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 2022 and FY 2023 approved funding amounts.



TABLE 12

INVESTMENT RETURN SENSITIVITY

(Base and Supplemental Benefits)

	1.00% Decrease: (5.75%)	0.75% Decrease: (6.00%)	0.50% Decrease: (6.25%)	0.25% Decrease: (6.50%)	Current Assumption: (6.75%)
Funded Status					
Actuarial Accrued Liability	\$3,329,461	\$3,276,572	\$3,225,317	\$3,175,629	\$3,127,441
Actuarial Value of Assets	2,986,023	2,986,023	2,986,023	2,986,023	2,986,023
Unfunded Actuarial Accrued Liability	\$343,438	\$290,549	\$239,294	\$189,606	\$141,418
Funded Ratio	89.7%	91.1%	92.6%	94.0%	95.5%
Actuarially Determined Contribution Amount					
Normal Cost	0	0	0	0	0
UAAL Amortization	205,974	194,308	182,904	171,752	160,840
Provision for Expenses	37,910	37,910	37,910	37,910	37,910
Actuarially Determined Contribution Amount	\$243,884	\$232,218	\$220,814	\$209,662	\$198,750
	0.25% Increase: (7.00%)	0.50% Increase: (7.25%)	0.75% Increase: (7.50%)	1.00% Increase: (7.75%)	1.25% Increase: (8.00%)
Funded Status					
Actuarial Accrued Liability	\$3,080,692	\$3,035,323	\$2,991,278	\$2,948,504	\$2,906,949
Actuarial Value of Assets	2.097.022	2 00 (022	2 006 022	2 00 (022	2.006.022
	2,986,023	2,986,023	2,986,023	2,986,023	2,986,023
Unfunded Actuarial Accrued Liability	\$94,669	2,986,023 \$49,300	<u>2,986,023</u> \$5,255	(\$37,519)	(\$79,074)
Unfunded Actuarial Accrued Liability Funded Ratio					
-	\$94,669	\$49,300	\$5,255	(\$37,519)	(\$79,074)
Funded Ratio	\$94,669	\$49,300	\$5,255	(\$37,519)	(\$79,074)
Funded Ratio Actuarially Determined Contribution Amount	\$94,669 96.9%	\$49,300 98.4%	\$5,255 99.8%	(\$37,519) 101.3%	(\$79,074) 102.7%
Funded Ratio Actuarially Determined Contribution Amount Normal Cost	\$94,669 96.9%	\$49,300 98.4%	\$5,255 99.8%	(\$37,519) 101.3%	(\$79,074) 102.7%

Note: Comparisons are based on funding the COLA in the same method as the base benefit, rather than with COLA funding. Consequently, these results are for comparative purposes only and will not match the actual results under the funding policy.



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 6.75%. 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 13 STATEMENT OF FIDUCIARY NET POSITION

	•	June 30, 2020
1. Assets		
a. Cash	\$	0
b. Receivables		
i. Contributions and Miscellaneous Receivables	\$	0
ii. Investments Receivable		80,732
iii. Foreign Exchange Contracts Receivable		686,048
iv. Interest and Dividends		6,736
v. Receivables Due From Other Funds		0
vi. Total Receivables	\$	773,516
c. Investments		
i. Short-Term Investments	\$	0
ii. Pooled Repurchase Agreements		676
iii. Pooled Short-Term Investments		132,863
iv. Pooled Fixed Income		1,011,259
v. Pooled Equity		648,974
vi. Pooled Alternative Investments		1,262,381
vii. Pooled Derivatives		1,342
viii. Pooled Investments		0
ix. Securities Lending Collateral		15,139
x. Total Investments	\$	3,072,634
d. Net Capital Assets		0
e. Other Assets		0
f. Total Assets: $a + b(vi) + c(x) + d + e$	\$	3,846,150
2. Liabilities		
a. Administrative Payable	\$	363
b. Retirement Benefits Payable	*	0
c. Investments Payable		180,945
d. Foreign Exchange Contracts Payable		687,653
e. Securities Lending Obligations		15,139
f. Securities Sold Under Agreement to Repurchase		36,976
g. Due To Other Funds		840
h. Due to Other Governments		0
i. Total Liabilities: $a + b + c + d + e + f + g + h$	\$	921,916
3. Fiduciary Net Position Restricted for Pensions: (1)(f) - (2)(i)	\$	2,924,234



TABLE 14

STATEMENT OF CHANGE IN FIDUCIARY NET POSITION

		For Fiscal Year Ending J	une 30, 2020
1. Fiduciary	Net Position as of June 30, 2019	\$	3,026,306
2. Additions	S		
a. Contril	butions		
i.	Member Contributions		0
ii.	Employer Contributions		207,615
iii.	Service Purchases (Employer and Member)		0
iv.	Non-Employer Contributing Entity Contributions		0
v.	Total Contributions	\$	207,615
b. Investr	ment Income/(Loss)		
i.	Net Appreciation/(Depreciation)	\$	73,273
ii.	Net Interest and Dividend Income		25,158
iii.	Securities Lending Income		211
iv.	Other Net Investment Income		340
v.	Investment Management Expenses		(19,530)
vi.	Direct Investment Expenses		(2,038)
vii.	Securities Lending Expenses		(48)
viii.	Total Investment Income/(Loss)	\$	77,366
c. Other	Additions		
i.	Member Reassignments		0
ii.	Miscellaneous Receipts		0
iii.	Total Other Additions	\$	0
d. Total I	Revenue (Additions): $a(v) + b(viii) + c(iii)$	\$	284,981
3. Deduction	ns		
a. Pension	n, Survivor and Disability Benefits	\$	349,143
b. Death	and Funeral Benefits		0
c. Distrib	outions of Contributions and Interest		0
d. Admin	nistrative Expenses		37,910
e. Memb	er Reassignments		0
f. Miscel	laneous Expenses		0
g. Total I	Expenses (Deductions)	\$	387,053
4. Net Incre	ease (Decrease) in Fiduciary Net Position: (2)(d) - (3)(g)	\$	(102,072)
5. Fiduciary	y Net Position as of June 30, 2020: (1) + (4)	\$	2,924,234



TABLE 15
SCHEDULE OF CHANGES IN NET PENSION LIABILITY

For Fiscal Year Ending June 30, 2020 **Total Pension Plan Fiduciary Net Pension** Liability **Net Position** Liability (a) **(b)** (a) - (b)\$ \$ \$ 1. Balance at June 30, 2019 3,362,049 3,026,306 335,743 2. Changes for the Year: 302 302 Service Cost (SC)¹ **Interest Cost** 215,175 215,175 Experience (Gains)/Losses (14,373)(14,373)**Assumption Changes** (87,064)(87,064)Plan Amendments 0 **Benefit Payments** (349,143)0 (349,143)Service Purchases **Employer Contributions** 0 0 0 **Employee Contributions** 0 0 0 Member Reassignments 0 0 0 207,615 Employer Contributions² (207,615)Non-employer Contributions 0 0 0 **Employee Contributions** Net Investment Income 77,366 (77,366)(37,910)37,910 Administrative Expenses 0 Other 0 \$ \$ **Net Changes** (235,103)(102,072)\$ (133,031)

\$

3,126,946

\$

2,924,234

3. Balance at June 30, 2020

\$

202,712

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

² Includes \$207,615 of state appropriations to the fund.



TABLE 16

DEFERRED OUTFLOWS OF RESOURCES

1. Liability Experience							
	¢	0	1 00	o	0	\$	0
June 30, 2020 Loss	\$	0	1.00	\$	0	Þ	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, 2020 Loss	\$	0	1.00	\$	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
3. Investment Experience							
June 30, 2020 Loss	\$	120,854	5.00	\$	24,171	\$	96,683
June 30, 2019 Loss		0	4.00		0		0
June 30, 2018 Loss		0	3.00		0		0
June 30, 2017 Loss		0	2.00		0		0
June 30, 2016 Loss		36,169	1.00		36,169		0
Total Outflows: (1)+(2)+(3)	\$	157,023		\$	60,340	\$	96,683

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 OF RESOURCES

	June 30, 2019 Remaining Period				Recognition	Jun	e 30, 2020
1. Liability Experience	Jun	2017	TCHOU		Recognition	oun	c 50, 2020
June 30, 2020 Gain	\$	14,373	1.00	\$	14,373	\$	0
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, 2020 Gain	\$	87,064	1.00	\$	87,064	\$	0
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
3. Investment Experience							
June 30, 2020 Gain	\$	0	5.00	\$	0	\$	0
June 30, 2019 Gain		11,516	4.00		2,880		8,636
June 30, 2018 Gain		45,645	3.00		15,215		30,430
June 30, 2017 Gain		12,706	2.00		6,355		6,351
June 30, 2016 Gain		0	1.00		0		0
Total Inflows: (1)+(2)+(3)	\$	171,304		\$	125,887	\$	45,417

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 18

DEFERRED INFLOWS / OUTFLOWS TO BE RECOGNIZED IN PENSION EXPENSE

Fiscal Year Ending June 30	Deferr	ed Outflows	Defe	rred Inflows	Net Deferred Outflows/(Inflows)	
Current Year:						
2020	\$	60,340	\$	125,887	\$	(65,547)
Future Years:						
2021	\$	24,171	\$	24,446	\$	(275)
2022		24,171		18,095		6,076
2023		24,171		2,876		21,295
2024		24,170		0		24,170
2025		0		0		0
Thereafter		0		0		0



TABLE 19

PENSION EXPENSE UNDER GASB NO. 68

	For Fiscal Year Ending June 30, 2020
1. Service Cost, beginning of year	\$ 302
2. Interest Cost, including interest on service cost	215,175
3. Member Contributions	0
4. Administrative Expenses	37,910
5. Expected Return on Assets ¹	(198,220)
6. Plan Amendments	0
7. Recognition of Deferred Inflows / Outflows of Resources Related to: a. Liability Experience (Gains) / Losses b. Assumption Change (Gains) / Losses c. Investment Experience (Gains) / Losses d. Total: (7a)+(7b)+(7c)	(14,373) (87,064)
8. Miscellaneous (Income) / Expense	0
9. Total Collective Pension Expense: (1)+(2)+(3)+(4)+(5)+(6)+(7d)+(8) 10. Employer Service Purchases	(10,380) 0
Pension Expense / (Income): (9) + (10)	\$ (10,380)

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.

Type of PlanThe Legislators' Defined Benefit Fund is a single-employer plan for GASB

accounting purposes.

Actuarial Assumptions and Inputs

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

Measurement Date June 30, 2020

Valuation Date

Assets: June 30, 2020

Liabilities: June 30, 2019 – The TPL as of June 30, 2020 was determined based on an

actuarial valuation prepared as of June 30, 2019 rolled forward one year to June 30, 2020, using the following key actuarial assumptions and other inputs, such as benefit accruals and actual benefit payments during that

time period.

Inflation 2.25%

Future Salary Increases 2.75%

Cost-of-Living Increases As of June 30, 2020:

No COLA has been granted through Fiscal Year 2022, which is reflected in the valuation. Thereafter, the following COLAs, compounded annually,

were assumed:

0.4% beginning on January 1, 2022 0.5% beginning on January 1, 2034 0.6% beginning on January 1, 2039

As of June 30, 2019:

No COLA has been granted through the 2021 calendar year. Thereafter,

the following COLAs, compounded annually, were assumed:

0.4% beginning on January 1, 2022 0.5% beginning on January 1, 2034 0.6% beginning on January 1, 2039



Mortality Assumption

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.

Experience Study

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 updated as appropriate based on the results of the study for this June 30, 2020 actuarial valuation.

Discount Rate

6.75%, net of investment expenses

The discount rate is equal to the expected long-term rate of return on plan investments, net of investment expense and including price inflation. There was no change in the discount rate from the prior measurement date.

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. The June 30, 2020 actuarial valuation assumes a long-term rate of return on assets of 6.75%, a 5-year level dollar closed method for amortizing the unfunded actuarial accrued liability (since the plan is frozen to new entrants and there are very few active member remaining as of June 30, 2020), a 5-year smoothing method for recognizing investment gains and losses in the actuarial value of assets, and a provision for funding back any administrative expenses paid out of plan assets during the prior year.



Discount Rate Sensitivity

	1% Decrease 5.75%	Current Rate 6.75%	1% Increase 7.75%
Net Pension Liability	\$404,561	\$202,712	\$23,900

Classes of Plan Members Covered

The June 30, 2020 valuation was performed using census data provided by INPRS as of June 30, 2019. Standard actuarial techniques were used to roll forward the total pension liability computed as of June 30, 2019 to the June 30, 2020 measurement date using actual benefit payments during that period of time.

Number as of June 30, 2019				
1. Currently Receiving Benefits:				
Retired Members, Disabled Members, and Beneficiaries	79			
2. Inactive Members Entitled To But Not Yet Receiving Benefits	6			
3. Inactive Non-vested Members Entitled to a Refund of Member Contributions	0			
4. Active Members	7			
Total Covered Plan Members: (1)+(2)+(3)+(4)	92			

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, 2020, the money-weighted return on the plan assets is 2.6%.

Components of Net Pension Liability

As of June 30, 2020	
Total Pension Liability	\$ 3,126,946
Fiduciary Net Position	 2,924,234
Net Pension Liability	\$ 202,712
Ratio of Fiduciary Net Position to Total Pension Liability	93.52%



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	2016	2017	2018	2019	2020
Total Pension Liability					
Total Pension Liability - beginning	\$4,325,905	\$4,014,773	\$3,804,048	\$3,483,713	\$3,362,049
Service Cost (SC), beginning-of-year	1,528	712	296	375	302
Interest Cost, including interest on SC	279,980	258,975	244,671	223,175	215,175
Experience (Gains)/Losses	(233,475)	(112,616)	(85,146)	10,361	(14,373)
Assumption Changes	0	(157)	(120,974)	0	(87,064)
Plan Amendments	0	0	0	0	0
Actual Benefit Payments	(359,165)	(357,639)	(359,182)	(355,575)	(349,143)
Member Reassignments	0	0	0	0	0
Service Purchases	0	0	0	0	0
Net Change in Total Pension Liability	(311,132)	(210,725)	(320,335)	(121,664)	(235,103)
(a) Total Pension Liability - ending	\$4,014,773	\$3,804,048	\$3,483,713	\$3,362,049	\$3,126,946
Plan Fiduciary Net Position					
Plan Fiduciary Net Position – beginning	\$3,175,268	\$2,919,061	\$2,864,867	\$2,941,623	\$3,026,306
Contributions – employer	137,600	134,800	236,527	269,200	207,615
Contributions – non-employer	0	0	0	0	0
Contributions – member	0	0	0	0	0
Net investment income	25,996	221,287	263,162	208,768	77,366
Actual benefit payments	(359,165)	(357,639)	(359,182)	(355,575)	(349,143)
Net member reassignments	0	0	0	0	0
Administrative expense	(60,638)	(52,642)	(63,751)	(37,710)	(37,910)
Other	0	0	0	0	0
Net change in Plan Fiduciary Net Position	(256,207)	(54,194)	76,756	84,683	(102,072)
(b) Plan Fiduciary Net Position - ending	\$2,919,061	\$2,864,867	\$2,941,623	\$3,026,306	\$2,924,234
Net Pension Liability - ending, (a) - (b)	\$1,095,712	\$939,181	\$542,090	\$335,743	\$202,712



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
Total Pension Liability			
Total Pension Liability - beginning	\$4,496,986	\$4,285,380	\$4,166,349
Service Cost (SC), beginning-of-year	2,519	3,260	3,341
Interest Cost, including interest on SC	291,387	277,234	268,981
Experience (Gains)/Losses	(140,190)	(36,574)	(67,951)
Assumption Changes	0	0	324,754
Plan Amendments	0	0	0
Actual Benefit Payments	(365,322)	(362,951)	(369,569)
Member Reassignments	0	0	0
Service Purchases	0	0	0
Net Change in Total Pension Liability	(211,606)	(119,031)	159,556
(a) Total Pension Liability - ending	\$4,285,380	\$4,166,349	\$4,325,905
Plan Fiduciary Net Position			
Plan Fiduciary Net Position – beginning	\$3,385,805	\$3,337,094	\$3,489,000
Contributions – employer	150,000	138,300	130,900
Contributions – non-employer	0	0	0
Contributions – member	0	0	0
Net investment income	200,867	439,045	(3,868)
Actual benefit payments	(365,322)	(362,951)	(369,569)
Net member reassignments	0	0	0
Administrative expense	(34,256)	(62,488)	(71,195)
Other	0	0	0
Net change in Plan Fiduciary Net Position	(48,711)	151,906	(313,732)
(b) Plan Fiduciary Net Position - ending	\$3,337,094	\$3,489,000	\$3,175,268
Net Pension Liability - ending, (a) - (b)	\$948,286	\$677,349	\$1,150,637



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

Fiscal Year Ending June 30	2016	2017	2018	2019	2020
Total Pension Liability	\$4,014,773	\$3,804,048	\$3,483,713	\$3,362,049	\$3,126,946
Plan Fiduciary Net Position	2,919,061	2,864,867	2,941,623	3,026,306	2,924,234
Net Pension Liability	\$1,095,712	\$939,181	\$542,090	\$335,743	\$202,712
Ratio of Plan Fiduciary Net Position to Total Pension Liability	72.71%	75.31%	84.44%	90.01%	93.52%
Covered-employee payroll ¹	N/A	N/A	N/A	N/A	N/A
Net Pension Liability as a percentage of covered-employee payroll	N/A	N/A	N/A	N/A	N/A
Fiscal Year Ending June 30			2013	2014	2015
Total Pension Liability			\$4,285,380	\$4,166,349	\$4,325,905
Plan Fiduciary Net Position			3,337,094	3,489,000	3,175,268
Net Pension Liability			\$948,286	\$677,349	\$1,150,637
Ratio of Plan Fiduciary Net Position to Total Pension Liability			77.87%	83.74%	73.40%
Covered-employee payroll ¹			N/A	N/A	N/A
Net Pension Liability as a percentage of covered-employee payroll			N/A	N/A	N/A

¹ As provided by INPRS.



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

SCHEDULE OF EMPLOYER CONTRIBUTIONS

Fiscal Year Ending June 30	2016	2017	2018	2019	2020
Actuarially Determined Contribution ¹ Actual employer contributions Annual contribution (deficiency) / excess	\$137,599 <u>\$137,600</u> \$1	\$169,734 <u>\$134,800</u> (\$34,934)	\$236,527 <u>\$236,527</u> \$0	\$239,871 <u>\$269,200</u> \$29,329	\$216,077 <u>\$207,615</u> (\$8,462)
Covered-employee payroll ² Actual contributions as a percentage of covered-employee payroll	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Fiscal Year Ending June 30			2013	2014	2015
Actuarially Determined Contribution ¹ Actual employer contributions Annual contribution (deficiency) / excess			\$140,202 <u>\$150,000</u> \$9,798	\$138,250 <u>\$138,300</u> \$50	\$118,927 <u>\$130,900</u> \$11,973
Covered-employee payroll ² Actual contributions as a percentage of covered-employee payroll			N/A N/A	N/A N/A	N/A N/A

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

² As provided by INPRS.



GASB NO. 67 AND GASB NO. 68: REQUIRED SUPPLEMENTAL INFORMATION SCHEDULE OF MONEY-WEIGHTED RETURNS

For Fiscal Year Ending June 30	Money-Weighted Return
2020	2.6%
2019	7.2%
2018	9.4%
2017	7.9%
2016	0.8%
2015	(0.1%)
2014	13.7%
2013	6.2%

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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A glossary of actuarial terms used in the valuation report.	



MEMBER DATA RECONCILIATION For the June 30, 2019 Data used in the June 30, 2020 Valuation

	Active Members	Inactive Vested	Disabled	Retired	Beneficiary	Total
1. As of June 30, 2018	8	9	0	60	18	95
2. Data Adjustments						
Vested Terminations	1	(1)	0	0	0	0
Disability	0	0	0	0	0	0
Retirements	(2)	(2)	0	4	0	0
Refund / Benefits Ended	0	0	0	0	0	0
Deaths:						
With Beneficiary	0	0	0	(3)	3	0
Without Beneficiary	0	0	0	0	(3)	(3)
Data Corrections	0	0	0	0	0	0
Net Change	(1)	(3)	0	1	0	(3)
3. As of June 30, 2019	7	6	0	61	18	92



SUMMARY OF MEMBERSHIP DATA

Valuation Date	Jı	ıne 30, 2019	J	une 30, 2020	% Change
Date of Membership Data ¹		July 1, 2018		July 1, 2019	
ACTIVE MEMBERS					
Number of Active Members		8		7	(12.5%)
Active Member Averages					
Age		73.8		73.7	(0.0%)
Service ²		8.1		7.5	(7.4%)
INACTIVE VESTED MEMBERS					
Number of Members		9		6	(33.3%)
Inactive Member Averages					
Age		69.8		72.0	3.2%
Service		6.2		7.5	20.4%
RETIREES, DISABLEDS, AND BENEFICIARIES					
Number of Members					
Retired		60		61	1.7%
Disabled		0		0	0.0%
Beneficiaries		18		18	0.0%
Total		78		79	1.3%
Annual Benefits					
Retired	\$	302,867	\$	301,018	(0.6%)
Disabled		0		0	0.0%
Beneficiaries		61,326		62,871	2.5%
Total	\$	364,193	\$	363,889	(0.1%)

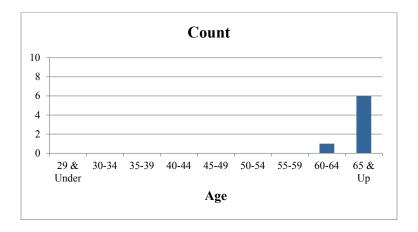
¹ The valuation results were calculated using the prior year's census data and were adjusted for certain activity during fiscal year.

² Credited service completed in the General Assembly prior to November 8, 1989.



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

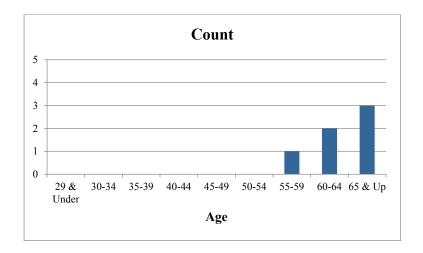
_	Count of Members				
<u>Age</u>	Male	<u>Female</u>	<u>Total</u>		
29 & Under	0	0	0		
30-34	0	0	0		
35-39	0	0	0		
40-44	0	0	0		
45-49	0	0	0		
50-54	0	0	0		
55-59	0	0	0		
60-64	1	0	1		
65 & Up	<u>4</u>	<u>2</u>	<u>6</u>		
Total	5	2	7		





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

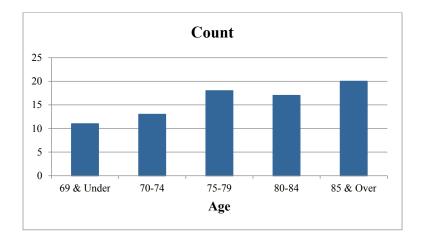
_	Count of Members					
<u>Age</u>	Male	<u>Female</u>	<u>Total</u>			
29 & Under	0	0	0			
30-34	0	0	0			
35-39	0	0	0			
40-44	0	0	0			
45-49	0	0	0			
50-54	0	0	0			
55-59	1	0	1			
60-64	2	0	2			
65 & Up	<u>2</u>	<u>1</u>	<u>3</u>			
Total	5	1	6			

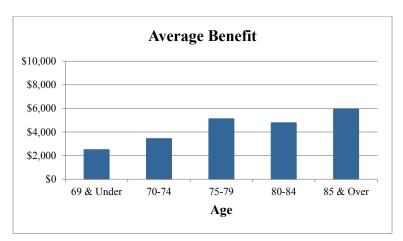




MEMBERS AND BENEFICIARIES RECEIVING BENEFITS As of June 30, 2019 for the June 30, 2020 Valuation

_	Co	unt of Member	rs		Annual Benefit	S
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
69 & Under	7	4	11	17,766	9,684	27,450
70-74	8	5	13	30,943	13,698	44,641
75-79	16	2	18	90,135	1,920	92,055
80-84	13	4	17	69,526	11,652	81,178
85 & Over	<u>10</u>	<u>10</u>	<u>20</u>	69,329	<u>49,236</u>	<u>118,565</u>
Total	54	25	79	\$ 277,699	\$ 86,190	\$ 363,889







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

Schedule of Average Benefit Payments 1

	Years of Credited Service						
For the Year Ended June 30, 2020	< 10	10 - 14	15 - 19	20 - 24	25 - 29	30 +	Total
Average Monthly Defined Benefit	\$206	\$388	\$640	\$1,008	\$577	\$784	\$384
Average Final Average Salary ²	\$23,833	\$26,330	\$24,244	N/A	N/A	N/A	\$24,630
Number of Benefit Recipients	34	25	16	2	1	1	79

Schedule of Benefit Recipients by Type of Benefit Option ¹

Number of Recipients by Benefit Option

Amount of Monthly Benefit (in dollars)	Joint with 50% Survivor Benefits	Survivors	Disability	Total Benefit Recipients
1 - 500	39	16	0	55
501 - 1,000	21	2	0	23
1,001 - 1,500	1	0	0	1
1,501 - 2,000	0	0	0	0
2,001 - 2,500	0	0	0	0
2,501 - 3,000	0	0	0	0
Over 3,000	0	0	0	0
Total	61	18	0	79

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

² Benefit calculations for the LE DB benefit recipients are based on years of service, not final average salary. Excludes the 43 in-pay members who are missing a final average salary in the data.



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

Schedule of Retirants and Beneficiaries

	Added	to Rolls	Removed	from Rolls	Rolls - En	Rolls - End of Year			
	Number	Annual Benefits	Number	Annual Benefits	Number	Total Annual Benefits	Percent Change In Total Annual Benefits ^{1,2}	Average Annual Benefit	Percent Change In Average Annual Benefit
2020 ³	4	\$15	3	\$9	79	\$364	0.0%	\$4,606	(1.3%)
2019 ³	2	7	0	0	78	364	2.0	4,669	(0.7)
2018 3	4	16	0	0	76	357	0.0	4,704	(5.1)
2017^{3}	0	0	2	7	72	357	(1.9)	4,956	0.8
2016 ³	8	23	2	14	74	364	(0.5)	4,919	(8.5)
2015^{3}	1	2	1	1	68	366	0.5	5,377	0.3
2014 3	0	0	0	0	68	364	0.0	5,362	0.0
2013	9	41	4	26	68	364	4.3	5,362	(3.1)
2012	2	13	4	20	63	349	(2.0)	5,536	1.1
2011	4	22	0	0	65	356	2.6	5,477	(3.7)

¹ Dollar amounts are in thousands except for the average annual benefit.

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.





Definitions

Fiscal year Twelve month period ending June 30.

Participation All members of the Indiana General Assembly who (1) were

serving on April 30, 1989, and (2) filed an election to

participate in this plan under IC 2-3.5-3-1(b).

Average monthly earnings Average monthly earnings is the monthly average of

earnings, including business per diem and subsistence allowances, attributable to service as a legislator during the 3

years that produce the highest such average.

Eligibility for Benefits

Deferred vested 10 or more years of creditable service and no longer active.

Disability retirement 5 or more years of creditable service and qualified for Social

Security disability benefits.

Early retirement Age 55 with 10 or more years of creditable service.

Normal retirement Earliest of:

- Age 65 with 10 or more years of creditable service.

- Age 60 with 15 or more years of creditable service.

- Age 55 with sum of age and creditable service equal

to 85 or more.

Pre-retirement death 10 or more years of creditable service.

Monthly Benefits Payable

Normal retirement The normal retirement benefit is a monthly annuity payable

for life with a 50% continuation to a surviving spouse or surviving children and is equal to the lesser of (1) \$40 times years of creditable service in the General Assembly completed before November 8, 1989, or (2) 100% of average

monthly earnings.

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 1/10% for each of the first 60 months and by 5/12% for each of the next 60 months that the benefit commencement date precedes the normal

retirement date.



APPENDIX B – SUMMARY OF PLAN PROVISIONS

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.

Disability The disability retirement benefit is the accrued retirement

benefit determined as of the disability date and payable commencing the month following disability date without

reduction for early commencement.

Pre-retirement 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 under the assumption that the participant retired on the later of age 55 or the day before the

date of death.

Cost-of-Living-Adjustments Cost-of-living increases for retired members will be provided

by legislative action.

Legislation passed in the 2018 legislative session creates a funding mechanism to provide for future benefit increases or 13th checks. The INPRS Board has the authority to have employers contribute up to 1% of member pay into the fund, although funds for the Legislators' Fund will be directly allocated by the State Legislature or provided from lottery proceeds. Increases or payments are made upon passed legislation subject to the availability of funds to provide the

benefit.

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.

Changes in Plan Provisions

None.



ACTUARIAL METHODS

1. Actuarial Cost Method

Funding:

The actuarial cost method is Traditional Unit Credit.

The normal cost is calculated separately for each active member and is equal to actuarial present value of additional benefits expected to be accrued during the year following the valuation date. The actuarial accrued liability on any valuation date is the actuarial present value of the benefits earned for service prior to the valuation date. Since the benefits for all members of the Legislator's Defined Benefit Plan are fixed and no longer increasing with future service credit or future salary increases, applying the Traditional Unit Credit cost method results in the Actuarial Accrued Liability being equal to the Present Value of Future Benefits (i.e. all benefits are treated as though they are attributable to past service) and the Normal Cost being equal to \$0. This is consistent with the actual status of member benefit accruals.

Gains and losses occurring from census experience different than assumed, assumption changes, and benefit changes are amortized over a 5-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 5-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.

Accounting:

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.

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 (active and inactive). 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, 2019 was used in the valuation and adjusted, where appropriate, to reflect changes between June 30, 2019 and June 30, 2020. The valuation results from June 30, 2019 were rolled-forward to June 30, 2020 to reflect benefit accruals during the year less benefits paid.



2. COLA Funding Amount

The COLA may be funded by either direct State appropriations or by allocation of a portion of the lottery proceeds. For consistency with other funds should annual lottery amounts be determined to be desirable, a funding amount is shown in this report. The COLA Funding Amount is developed by determining the assets needed at the start of the next biennium to fund the post-retirement benefit increases anticipated to be granted in that biennium.

3. 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.

4. State Appropriations

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

Changes in Methods since the Prior Year

None.



ACTUARIAL ASSUMPTIONS

Valuation Date June 30, 2020

Economic Assumptions

1. Investment return 6.75% per year, compounded annually

2. Inflation 2.25% per year

3. Salary increase 2.75% per year

4. Cost-of-Living Adjustment (COLA) No COLA has been granted through Fiscal Year 2022, which

is reflected in the valuation.

Thereafter, the following COLAs, compounded annually,

were assumed:

0.4% beginning on January 1, 2022 0.5% beginning on January 1, 2034 0.6% beginning on January 1, 2039.

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 None

3. Termination None

APPENDIX C – SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS

4. Retirement

Age	Rate
55	10%
56-57	8%
58-61	2%
62-64	5%
65+	100%

Inactive vested members are assumed to commence their retirement benefit at their earliest eligible retirement age.

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 members are assumed 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. Administrative expense Replacement basis. Administrative expenses incurred during

the year prior to the valuation date are included in the calculation of funds to be appropriated to the LE DB Fund by

the State.

Changes in Assumptions since the Prior Year

As a result of the 2014-2019 Experience Study, there were changes to many assumptions. Please see that Study for complete details (available on the INPRS web site).

Data Adjustments

Active and retired member data is reported as of June 30. Member census data as of June 30, 2019 was used in the valuation and adjusted. Standard actuarial roll-forward techniques were then used to project the liability computed as of June 30, 2019 to the June 30, 2020 valuation date. The asset information for this valuation was furnished as of June 30, 2020. 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.



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.





Accrued Service Service credited under the plan 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 plan 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 plan

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 plan benefits

allocated to the current year by the actuarial cost method.

Unfunded Actuarial Accrued Liability The difference between actuarial liability and the actuarial

value of assets. Sometimes referred to as "unfunded accrued

liability" or "unfunded liability".

Most retirement plans have unfunded actuarial liability. They arise anytime new benefits are added and anytime an actuarial

loss is realized