

INTERIM GASB 74/75 ACTUARIAL VALUATION

Fiscal Year Ending June 30, 2022

STATE OF INDIANA State Personnel

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November 18, 2022

Andy Blough, FSA, EA, MAAA Indiana Public Retirement System One North Capital, Suite 001 Indianapolis, IN 46204

This report summarizes the GASB actuarial valuation for the State of Indiana State Personnel 2021/22 fiscal year. To the best of our knowledge, the report presents a fair position of the funded status of the plan in accordance with GASB Statement No. 74 (Financial Reporting for Post-Employment Benefit Plans Other Than Pension Plans) and GASB Statement No. 75 (Accounting and Financial Reporting by Employers for Post-Employment Benefits Other Than Pensions).

The information presented herein is based on the actuarial assumptions and substantive plan provisions summarized in this report and participant information furnished to us by the Plan Sponsor. We have reviewed the employee census provided by the Plan Sponsor for reasonableness when compared to the prior information provided but have not audited the information at the source, and therefore do not accept responsibility for the accuracy or the completeness of the data on which the information is based. When relevant data may be missing, we may have made assumptions we feel are neutral or conservative to the purpose of the measurement. We are not aware of any significant issues with and have relied on the data provided.

The discount rate, other economic assumptions, and demographic assumptions have been selected by the Plan Sponsor with the concurrence of Nyhart. In our opinion, the actuarial assumptions are individually reasonable and in combination represent our estimate of anticipated experience of the Plan. All calculations have been made in accordance with generally accepted actuarial principles and practice.

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); and
- changes in plan provisions or applicable law.

We did not perform an analysis of the potential range of future measurements due to the limited scope of our engagement.

To our knowledge, there have been no significant events prior to the current year's measurement date or as of the date of this report that could materially affect the results contained herein.



Neither Nyhart nor any of its employees has any relationship with the plan or its sponsor that could impair or appear to impair the objectivity of this report. Our professional work is in full compliance with the American Academy of Actuaries "Code of Professional Conduct" Precept 7 regarding conflict of interest. The undersigned meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

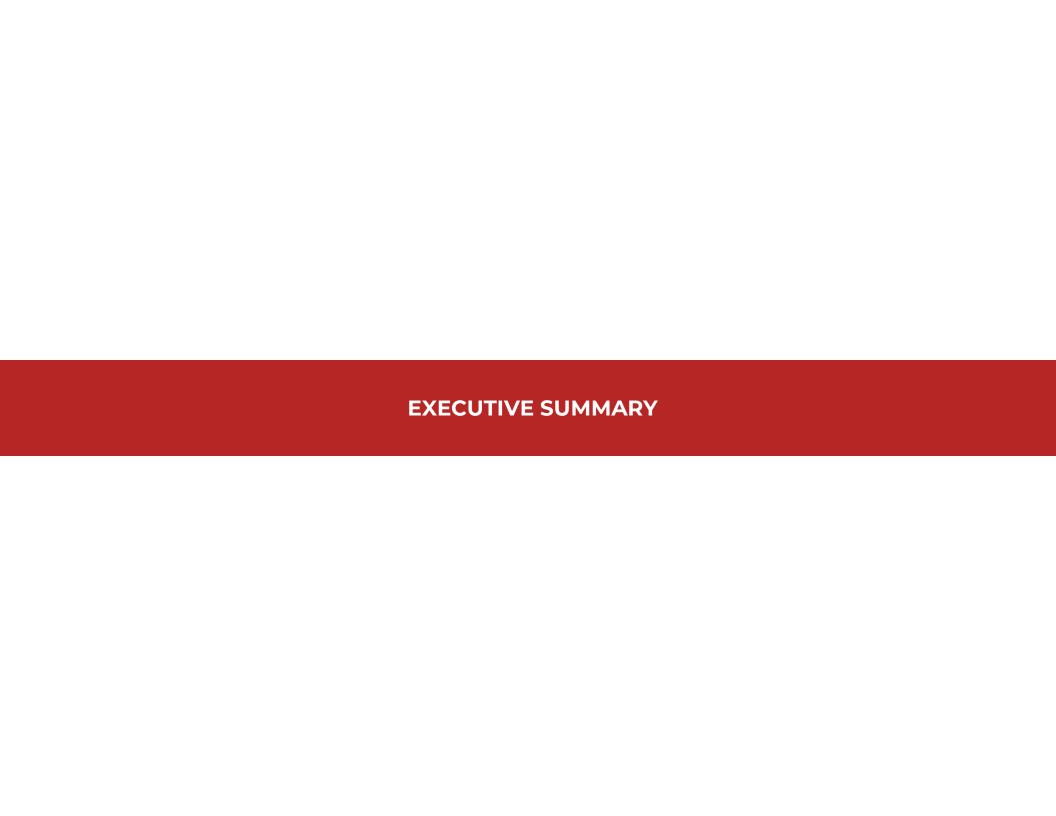
Should you have any questions please do not hesitate to contact us.

Cody Kocher, ASA, MAAA

Actuary

John Mallows, FSA, MAAA

Actuary





Executive Summary

State of Indiana State Personnel GASB 74/75 Valuation for Fiscal Year Ending June 30, 2022

Detailed Actuary's Notes

The following assumption changes have been made since last year's full valuation, which was for the fiscal year ending June 30, 2021:

We have updated the discount rate assumption to be based on a blended rate using the expected rate of return on assets (3.00%) for years when investments are expected to be sufficient to pay the projected benefit payments and the yield 20-year tax-exempt general obligation municipal bonds (4.09% as of June 30, 2022) for years when investments are insufficient to cover future benefit payments. The discount rate is 2.96% as of July 1, 2021 and 3.04% as of June 30, 2022. Refer to the Discussion of Discount Rates section for more information on selection of the discount rate. Making this change resulted in a decrease in liabilities.

Interim year valuation results have been projected from the prior year's valuation with adjustments for actual medical/Rx claims and enrollment experience for the 24 months ending May 2022 (with 60% weight on the most recent 12 months) and premium rate changes from 2022 to 2023. Making this change resulted in a significant increase in liabilities.

Premium Rates

The 2022 and 2023 monthly retiree premium rates by plan for non-tobacco users are as shown below:

2022	w/o Wellne	w/ Wellne	ss Discount	
Plans	Single	Family	Single	Family
CDHP 1	\$ 572.00	\$ 1,720.29	\$ 540.80	\$ 1,626.69
CDHP 2	\$ 628.38	\$ 1,879.89	\$ 597.18	\$ 1,786.29
Traditional PPO	\$ 807.78	\$ 2,418.74	\$ 776.58	\$ 2,325.14

2023	w/o Wellne	ess Discount	w/ Wellne	ss Discount
Plans	Single	Family	Single	Family
CDHP 1	\$ 604.76	\$ 1,811.16	\$ 573.56	\$ 1,717.56
CDHP 2	\$ 661.96	\$ 1,974.57	\$ 630.76	\$ 1,880.97
Traditional PPO	\$ 845.00	\$ 2,528.37	\$ 813.80	\$ 2,434.77



Executive Summary

State of Indiana State Personnel GASB 74/75 Valuation for Fiscal Year Ending June 30, 2022

Summary of Results

Presented below is the summary of GASB 74/75 results for the fiscal year ending June 30, 2022.

	As of	f June 30, 2021	As of June 30, 2022			
Total OPEB Liability	\$	62,697,000	\$	73,632,905		
Actuarial Value of Assets		(46,837,203)		(46,495,865)		
Net OPEB Liability	\$	15,859,797	\$	27,137,040		
Funded Ratio		74.7%		63.1%		

For FY 2021/22	For	FY 2020/21	For FY 2021/22			
OPEB Expense	\$	5,073,641	\$	6,899,386		
Annual Employer Contribution	\$	4,559,016	\$	1,776,045		

As of June 30, 2022	As of June 30, 2021	As of June 30, 2022
Discount Rate	2.96%	3.04%
Expected Return on Assets	3.00%	3.00%

State of Indiana State Personnel GASB 74/75 Valuation for Fiscal Year Ending June 30, 2022

Schedule of Changes in Net OPEB Liability and Related Ratios

OPEB Liability		FY 2021/22		FY 2020/21		FY 2019/20		FY 2018/19		FY 2017/18
Total OPEB Liability										
Total OPEB liability – beginning of year	\$	62,697,000	\$	52,311,259	\$	57,423,651	\$	47,525,294	\$	53,040,129
Service cost		3,304,690		3,205,921		2,961,092		1,932,796		2,113,477
Interest		1,921,191		1,714,430		1,891,706		1,851,245		1,909,791
Changes of benefit terms		0		0		0		0		0
Changes in assumptions		(528,337)		7,075,425		(6,835,400)		2,802,670		(1,163,973)
Differences between expected and actual experience		8,447,661		3,306,760		1,622,200		6,587,365		(5,331,960)
Benefit payments		(2,209,300)		(4,916,795)		(4,751,990)		(3,275,719)		(3,042,170)
Net change in total OPEB liability	\$	10,935,905	\$	10,385,741	\$	(5,112,392)	\$	9,898,357	\$	(5,514,835)
Total OPEB liability – end of year	\$	73,632,905	\$	62,697,000	\$	52,311,259	\$	57,423,651	\$	47,525,294
Plan Fiduciary Net Position										
Plan fiduciary net position – beginning of year	\$	46,837,203	\$	47,137,471	\$	46,203,020	\$	45,489,242	\$	44,998,027
Contributions – employer		1,776,045		4,559,016		5,030,562		3,336,598		3,384,366
Contributions – active employees		0		0		0		0		0
Net investment income		91,917		57,511		789,133		1,006,887		546,743
Benefit payments		(2,209,300)		(4,916,795)		(4,751,990)		(3,275,719)		(3,042,170)
Trust administrative expenses		0		0		(133,254)		(353,988)		(397,724)
Net change in plan fiduciary net position	\$	(341,338)	\$	(300,268)	\$	934,451	\$	713,778	\$	491,215
Plan fiduciary net position – end of year	\$	46,495,865	\$	46,837,203	\$	47,137,471	\$	46,203,020	\$	45,489,242
Net OPEB Liability – end of year	\$	27,137,040	\$	15,859,797	\$	5,173,788	\$	11,220,631	\$	2,036,052
Dies field sie was transition as Washard ODED liebility.		62.40/		74.70/		00.10/		00.5%		05.70/
Plan fiduciary net position as % of total OPEB liability	+	63.1%	+	74.7%	+	90.1%	+	80.5%	+	95.7%
Covered employee payroll ¹	\$	1,576,490,580	\$, , ,	\$	1,503,767,928	\$	1,470,677,680	\$	1,262,054,123
Net OPEB liability as % of covered payroll		1.7%		1.0%		0.3%		0.8%		0.7%

¹ FY 2021/22 covered payroll is based on covered payroll for FY 2020/21 increased by the payroll growth inflation assumption (2.65%).

State of Indiana State Personnel GASB 74/75 Valuation for Fiscal Year Ending June 30, 2022

Schedule of Employer Contributions

The Actuarially Determined Contributions (ADC) shown below prior to FY 2016/17 are based on the Annual Required Contribution (ARC) calculated in prior GASB 45 actuarial valuations as shown in the Plan Sponsor financial statements.

	FY 2021/22	FY 2020/21	FY 2019/20	FY 2018/19	FY 2017/18
Actuarially Determined Contribution (ADC)	\$ 4,272,930 ²	\$ 4,916,795	\$ 4,751,990	\$ 3,275,719	\$ 3,042,170
Contributions in relation to the ADC ³	1,776,045	4,559,016	5,030,562	3,336,598	3,384,366
Contribution deficiency / (excess)	\$ 2,496,885	\$ 357,779	\$ (278,572)	\$ (60,879)	\$ (342,196)
Covered employee payroll	\$ 1,576,490,580	\$ 1,535,792,090	\$ 1,503,767,928	\$ 1,470,677,680	\$ 1,262,054,123
Contribution as a % of covered employee payroll	0.1%	0.3%	0.3%	0.2%	0.3%
	FY 2016/17	FY 2015/16	FY 2014/15	FY 2013/14	FY 2012/13
Actuarially Determined Contribution (ADC)	\$ 3,060,429	\$ 1,537,527	\$ 1,838,675	\$ 1,009,935	\$ 940,502
Contributions in relation to the ADC ⁴	4,801,561	2,977,166	3,567,257	3,200,158	4,202,964
Contribution deficiency / (excess)	\$ (1,741,132)	\$ (1,439,639)	\$ (1,728,582)	\$ (2,190,223)	\$ (3,262,462)
Covered employee payroll	\$ 1,234,282,761	\$ 1,148,771,000	\$ 1,180,296,000	\$ 1,219,424,000	\$ 1,208,402,000
Contribution as a % of covered employee payroll	0.4%	0.3%	0.3%	0.3%	0.3%

² Refer to the Actuarially Determined Contributions section for the calculation details.

³ Includes employer contribution for pay-go cost and (any) pre-funding contributions deposited into the OPEB Trust.



State of Indiana State Personnel GASB 74/75 Valuation for Fiscal Year Ending June 30, 2022

OPEB Expense

		_	
OPEB Expense	FY 2021/22		FY 2020/21
Discount rate as of beginning of fiscal year	2.96%		3.22%
Discount rate as of end of fiscal year	3.04%		2.96%
Service cost	\$ 3,304,690	\$	3,205,921
Interest	1,921,191		1,714,430
Changes of benefit terms	0		0
Projected earnings on OPEB plan investments	(1,398,665)		(1,526,200)
Reduction for contributions from active employees	0		0
OPEB plan administrative expenses	0		0
Current period recognition of deferred outflows / (inflows) of resources			
Differences between expected and actual experience	\$ 2,031,240	\$	824,431
Changes in assumptions	66,564		142,041
Net difference between projected and actual earnings on OPEB plan investments	974,366		713,018
Total current period recognition	\$ 3,072,170	\$	1,679,490
Total OPEB expense	\$ 6,899,386	\$	5,073,641



State of Indiana State Personnel GASB 74/75 Valuation for Fiscal Year Ending June 30, 2022

Deferred Outflows / (Inflows) of Resources

Deferred Outflows / (Inflows) of Resources represents the following items that have not been recognized in the OPEB Expense:

- 1. Differences between expected and actual experience of the OPEB plan
- 2. Changes of assumptions
- 3. Difference between projected an actual earnings in OPEB plan investments

The initial amortization period for the first two items noted above is based on the average future service to retirement while the difference between projected and actual earnings in OPEB plan investment is amortized over five years. All balances are amortized linearly on a principal only basis and new bases will be created annually for each of the item above.

Differences between expected and actual experience for FYE	Ini	itial Balance	Initial Amortization Period	Annu	al Recognition	Unamortized ance as of June 30, 2022
June 30, 2018	\$	(5,331,960)	7	\$	(761,709)	\$ (1,523,415)
June 30, 2019	\$	6,587,365	7	\$	941,052	\$ 2,823,157
June 30, 2020	\$	1,622,200	7	\$	231,743	\$ 926,971
June 30, 2021	\$	3,306,760	8	\$	413,345	\$ 2,480,070
June 30, 2022	\$	8,447,661	7	\$	1,206,809	\$ 7,240,852

Changes in assumptions for FYE	In	itial Balance	Initial Amortization Annual Recognition Period		ıl Recognition	namortized Ince as of June 30, 2022
June 30, 2018	\$	(1,163,973)	7	\$	(166,282)	\$ (332,563)
June 30, 2019	\$	2,802,670	7	\$	400,381	\$ 1,201,146
June 30, 2020	\$	(6,835,400)	7	\$	(976,486)	\$ (3,905,942)
June 30, 2021	\$	7,075,425	8	\$	884,428	\$ 5,306,569
June 30, 2022	\$	(528,337)	7	\$	(75,477)	\$ (452,860)



State of Indiana State Personnel GASB 74/75 Valuation for Fiscal Year Ending June 30, 2022

Deferred Outflows / (Inflows) of Resources - Continued

Net difference between projected and actual earnings in OPEB plan investments for FYE	Ini	tial Balance	Initial Amortization Period	Annua	l Recognition	Unamortized ance as of June 30, 2022
June 30, 2018	\$	914,798	5	\$	182,958	\$ 0
June 30, 2019	\$	466,788	5	\$	93,358	\$ 93,356
June 30, 2020	\$	714,808	5	\$	142,962	\$ 285,922
June 30, 2021	\$	1,468,689	5	\$	293,738	\$ 881,213
June 30, 2022	\$	1,306,748	5	\$	261,350	\$ 1,045,398

Total	\$	22,284,654	\$	(6,214,780)
investments		2,303,669		0
Net difference between projected and actual earnings in OPEB plan		2,305,889		0
Changes in assumptions		6,507,715		(4,691,365)
Differences between expected and actual experience	\$	13,471,050	\$	(1,523,415)
As of fiscal year ending June 30, 2022	Defe	rred Outflows	Def	erred Inflows

Annual Amortization of Deferred Outflows / (Inflows)

The balances as of June 30, 2022 of the deferred outflows / (inflows) of resources will be recognized in OPEB expense in the future fiscal years as noted below.

FYE	ı	Balance		
2023	\$	2,889,210		
2024	\$	2,795,856		
2025	\$	3,580,886		
2026	\$	1,945,711		
2027	\$	2,429,105		
Thereafter	\$	2,429,106		



State of Indiana State Personnel GASB 74/75 Valuation for Fiscal Year Ending June 30, 2022

Sensitivity Results

The following presents the net OPEB liability as of June 30, 2022, calculated using the discount rate assumed and what it would be using a 1% higher and 1% lower discount rate.

- The current discount rate is 3.04%.
- The 1% decrease in discount rate would be 2.04%.
- The 1% increase in discount rate would be 4.04%.

As of June 30, 2022	Net C	PEB Liability
1% Decrease	\$	34,023,350
Current Discount Rate	\$	27,137,040
1% Increase	\$	20,865,123

The following presents the net OPEB liability as of June 30, 2022, using the health care trend rates assumed and what it would be using 1% higher and 1% lower health care trend rates.

- The current health care trend rate starts at an initial rate of 7.5% decreasing by 0.5% annually to an ultimate rate of 4.5%.
- The 1% decrease in health care trend rates would assume an initial rate of 6.5% decreasing by 0.5% annually to an ultimate rate of 3.5%.
- The 1% increase in health care trend rates would assume an initial rate of 8.5% decreasing by 0.5% annually to an ultimate rate of 5.5%.

As of June 30, 2022	Net OPEB Liability		
1% Decrease	\$	18,575,127	
Current Health Care Trend Rates	\$	27,137,040	
1% Increase	\$	37,382,427	



Asset Information

State of Indiana State Personnel GASB 74/75 Valuation for Fiscal Year Ending June 30, 2022

Asset Information

Asset Breakdown	FY 2020/21	FY 2021/22
Assets		
Cash and cash equivalents	\$ 374,857	\$ 68,727
Securities lending cash collateral	0	0
Total cash	\$ 374,857	\$ 68,727
Receivables		
Contributions	\$ 374,547	\$ 0
Accrued interest	248	26,264
Total receivables	\$ 374,795	\$ 26,264
Investments		
Debt Securities	\$ 46,497,328	\$ 46,869,359
Equities	0	0
Mutual Funds	0	0
Other	0	0
Total investments	\$ 46,497,328	\$ 46,869,359
Total assets	\$ 47,246,980	\$ 46,964,350
Liabilities		
Payables		
Investment management fees	\$ 0	\$ 0
Benefits	409,777	468,485
Total liabilities	\$ 409,777	\$ 468,485
Net position restricted to OPEB	\$ 46,837,203	\$ 46,495,865



Asset Information

State of Indiana State Personnel GASB 74/75 Valuation for Fiscal Year Ending June 30, 2022

Asset Information

Asset Reconciliation	FY 2020/21	FY 2021/22
Additions		
Contributions received		
Employer	\$ 4,559,016	\$ 1,776,045
Employee	0	
Total contributions	\$ 4,559,016	\$ 1,776,045
Investment income		
Net increase in fair value of investments	\$ 57,511	\$ 91,917
Interests and dividends	0	0
Investment expense, other than from securities lending	0	0
Securities lending income	0	0
Securities lending expense	0	0
Net investment income	\$ 57,511	\$ 91,917
Total additions	\$ 4,616,527	\$ 1,867,962
Deductions		
Benefit payments (net of retiree contributions)	\$ (4,916,795)	\$ (2,209,300)
Administrative expenses	0	0
Other	0	0
Total deductions	\$ (4,916,795)	\$ (2,209,300)
Net increase in net position	\$ (300,268)	\$ (341,338)
Net position restricted to OPEB		
Beginning of year	47,137,471	46,837,203
	\$ 46,837,203	\$ 46,495,865

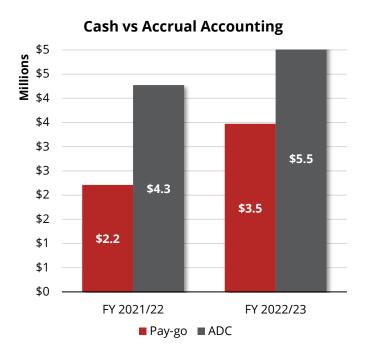


Actuarially Determined Contributions

State of Indiana State Personnel GASB 74/75 Valuation for Fiscal Year Ending June 30, 2022

The Actuarially Determined Contributions calculated below are recommended target contributions and assumes that the Plan Sponsor has the ability to contribute these amounts on an annual basis. The Plan Sponsor has the responsibility to decide how much it should contribute after considering its other needs and the OPEB participants' needs.

		FY 2021/22		FY 2022/23
Discount rate	3.00%		3.0	
Payroll growth factor used for amortization		N/A		N/A
Actuarial cost method		ry Age Normal vel % of Salary		try Age Normal evel % of Salary
Amortization type		Level Dollar		Level Dollar
Amortization period		25 years		24 years
Actuarial accrued liability (AAL) – beginning of year	\$	62,475,229	\$	73,896,580
Actuarial value of assets – beginning of year		(46,837,203)		(46,495,865)
Unfunded AAL – beginning of year	\$	15,638,026	\$	27,400,715
Normal Cost	\$	3,276,575	\$	3,784,479
Amortization of UAAL		871,901		1,570,817
Total normal cost plus amortization	\$	4,148,476	\$	5,355,296
Interest to the end of year		124,454		160,659
Actuarially Determined Contribution – Preliminary	\$	4,272,930	\$	5,515,955
Expected benefit payments ⁴		2,209,300		3,474,616
Actuarially Determined Contribution – Final ⁵	\$	4,272,930	\$	5,515,955



Actuarially Determined Contribution (ADC) is the target or recommended contribution to a defined benefit OPEB plan, which if paid on an ongoing basis, will provide sufficient resources to fund future costs for services to be earned and liabilities attributed to past services. This is typically higher than the pay-as-you-go cost because it includes recognition of employer costs expected to be paid in future accounting periods.

⁴ Actual for FY 2021/22

⁵ Set to be the greater of the preliminary ADC and expected benefit payments.



Discussion of Discount Rates

State of Indiana State Personnel GASB 74/75 Valuation for Fiscal Year Ending June 30, 2022

Under GASB 74, the discount rate used in valuing OPEB liabilities for funded plans as of the Measurement Date must be based on the long-term expected rate of return on OPEB plan investments that are expected to be used to finance future benefit payments to the extent that (a) they are sufficient to pay for the projected benefit payments and (b) the OPEB plan assets are invested using a strategy that will achieve that return. When the OPEB plan investments are insufficient to cover future benefit payments, a yield for 20-year tax-exempt general obligation municipal bonds with an average rating of AA /Aa or higher (or equivalent quality on another rating scale) must be used.

For the current valuation:

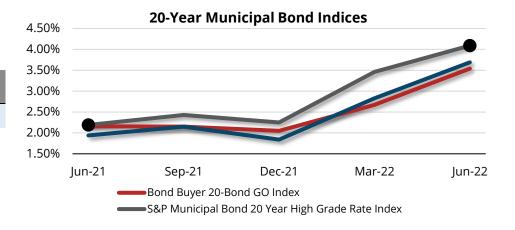
1. The long-term expected rate of return on OPEB plan investment is 3.00%. This was determined using a building block method in which expected future real rates of return (expected returns, net of OPEB plan investment expense and inflation) are developed for each major asset class. These expected future real rates of return are then combined to produce the long-term expected rate of return by weighting them based on the target asset allocation percentage and adding in expected inflation (2.00%). The best estimates of arithmetic real rates of return for each major asset class included in the OPEB Plan's target asset allocation as of June 30, 2022 are summarized in the following table.

Asset Class	Target Allocation	L/T Expected Real ROR (JP Morgan)
U.S. Bond	100.00%	1.00%

 The discount rate used when the OPEB plan investments are insufficient to pay for future benefit payments are selected from the range of indices as shown in the table below, where the range is given as the spread between the lowest and highest rate shown.

Yield as of	July 1, 2021	June 30, 2022
Bond Buyer Go 20-Bond Municipal Bond Index	2.16%	3.54%
S&P Municipal Bond 20-Year High Grade Rate Index	2.19%	4.09%
Fidelity 20-Year Go Municipal Bond Index	1.94%	3.69%
Bond Index Range	1.94% - 2.19%	3.54% - 4.09%
Actual Discount Rate Used	2.19%	4.09%

3. The final equivalent single discount rate used for this year's valuation is 2.96% as of July 1, 2021 and 3.04% as of June 30, 2022, with the expectation that the State will continue to contribute at least the Actuarially Determined Contribution each year.





Summary of Key Actuarial Assumptions

State of Indiana State Personnel GASB 74/75 Valuation for Fiscal Year Ending June 30, 2022

For a complete summary of actuarial methods and assumptions, refer to the GASB 75 actuarial valuation report for the fiscal year ending June 30, 2021.

Measurement Date For fiscal year ending June 30, 2022, a June 30, 2022 measurement date was used.

Actuarial Valuation DateJuly 1, 2021 with results actuarially projected on a "no gain / no loss" basis to get to the June 30, 2022 measurement date. Liabilities as of July 1, 2021 are based on an actuarial valuation date of July 1, 2021.

Discount Rate3.04% as of June 30, 2022 and 2.96% as of July 1, 2021 for accounting disclosure purposes.
3.00% as of July 1, 2021 and June 30, 2022 for calculating the Actuarily Determined Contributions.

Refer to the Discussion of Discount Rates section for more information on selection of the discount rate.

The discount rate was chosen by the plan sponsor based on the information provided in the "Discussion of Discount Rates" section above.

Payroll Growth

2.65% for general wage inflation (includes 2.00% inflation and 0.65% real wage growth) plus the following merit and productivity increases which are based on the assumptions approved from the Indiana Public Retirement System (INPRS) 2020 Experience Study.

YOS	General	Judges	Prosecuting Attorneys
0	6.00%	0.00%	0.00%
5	2.00%	0.00%	0.00%
10	0.75%	0.00%	0.00%
13+	0.00%	0.00%	0.00%

Inflation Rate

2.00% per year

The inflation rate is based assumptions approved from the Indiana Public Retirement System (INPRS) 2020 Experience Study and future expectations.

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Summary of Key Actuarial Assumptions

State of Indiana State Personnel GASB 74/75 Valuation for Fiscal Year Ending June 30, 2022

Cost Method

Allocation of Actuarial Present Value of Future Benefits for services prior and after the Measurement Date was determined using Entry Age Normal Level % of Salary method where:

- Service Cost for each individual participant, payable from date of employment to date of retirement, is sufficient to pay for the participant's benefit at retirement; and
- Annual Service Cost is a constant percentage of the participant's salary that is assumed to increase according to the Payroll Growth.

Health Care Trend Rates	FYE	Medical/Rx	FYE	Medical/Rx
	2023	7.5%	2027	5.5%
	2024	7.0%	2028	5.0%
	2025	6.5%	2029+	4.5%
	2026	6.0%		

The initial trend rate was based on a combination of employer history, national trend surveys, and professional judgment.

The ultimate trend rate was selected based on historical medical CPI information.

Models

ProVal

Valuation software developed by Winklevoss Technologies, LLC. This software is widely used for the purpose of performing postretirement medical valuations. We coded the plan provisions, assumptions, methods and participant data summarized in this report, and reviewed the liability and cost outputs for reasonableness. We are not aware of any weakness or limitations in the software and have determined it is appropriate for performing this valuation.

HealthMAPS Manual

Rating manual developed by WTW. Aging factors are used to develop per capita costs by age for plans with limited credible exposure to develop plan-specific factors. We are not aware of any weakness or limitations in the factors and have determined they are appropriate for performing this valuation.