

INTERIM GASB 74/75 ACTUARIAL VALUATION

Fiscal Year Ending June 30, 2022

STATE OF INDIANA Legislature

CONTACT

Cody Kocher ASA, MAAA cody.kocher@nyhart.com

PHONE

General (317) 845-3500 Toll-Free (800) 428-7106 Fax (317) 845-3654

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November 4, 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 Legislature 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.

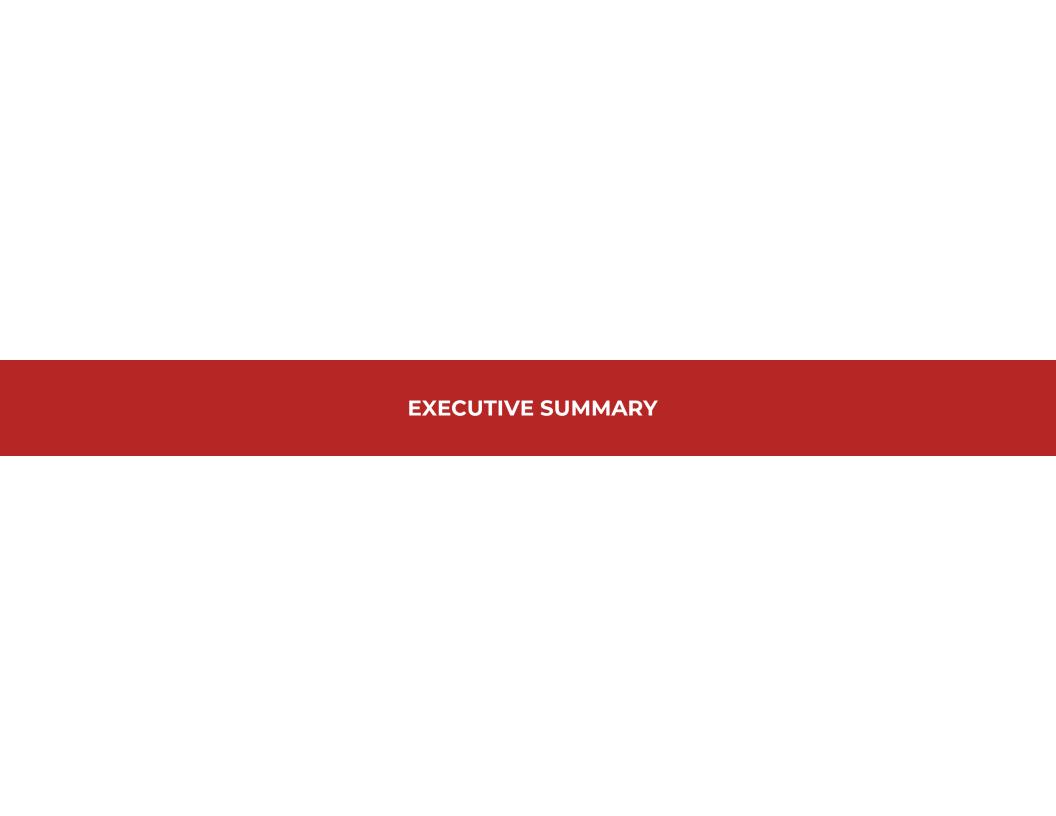
Should you have any questions please do not hesitate to contact us.

Cody Kocher, ASA, MAAA

Actuary

John Mallows, FSA, MAAA

Actuary





Executive Summary

State of Indiana Legislature GASB 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 based on the 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) as of June 30, 2022 (measurement date). The discount rate is 2.19% as of July 1, 2021 and 4.09% 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 significant 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 70% weight on the most recent 12 months) and premium rate changes from 2022 to 2023. Making this change resulted in a decrease 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	ess Discount	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/ Wellness Discoun					
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 Legislature GASB 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	June 30, 2021	As of	June 30, 2022
Total OPEB Liability	\$	10,025,730	\$	7,311,548
Actuarial Value of Assets		0		0
Net OPEB Liability	\$	10,025,730	\$	7,311,548
Funded Ratio		0.0%		0.0%

For FY 2021/22	For F	Y 2020/21	For FY 2021/22			
OPEB Expense	\$	173,596	\$	(313,064)		
Annual Employer Contribution	\$	476,663	\$	527,332		

As of June 30, 2022	As of June 30, 2021	As of June 30, 2022
Discount Rate	2.19%	4.09%
Expected Return on Assets	N/A	N/A

State of Indiana Legislature GASB 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	\$	10,025,730	\$	8,110,150	\$	8,090,224	\$	9,994,526	\$	11,987,469
Service cost		35,185		38,653		43,131		113,767		120,023
Interest		214,591		210,460		276,890		380,946		420,082
Changes of benefit terms		0		0		0		(1,062,888)		0
Changes in assumptions		(1,752,835)		835,261		463,515		335,132		(385,363)
Differences between expected and actual experience		(683,791)		1,307,869		(269,845)		(1,136,744)		(1,527,405)
Benefit payments ¹		(527,332)		(476,663)		(493,765)		(534,515)		(620,280)
Net change in total OPEB liability	\$	(2,714,182)	\$	1,915,580	\$	19,926	\$	(1,904,302)	\$	(1,992,943)
Total OPEB liability – end of year	\$	7,311,548	\$	10,025,730	\$	8,110,150	\$	8,090,224	\$	9,994,526
Plan Fiduciary Net Position										
Plan fiduciary net position – beginning of year	\$	0	\$	0	\$	0	\$	0	\$	0
Contributions – employer		527,332		476,663		493,765		534,515		620,280
Contributions – active employees		0		0		0		0		0
Net investment income		0		0		0		0		0
Benefit payments		(527,332)		(476,663)		(493,765)		(534,515)		(620,280)
Trust administrative expenses		0		0		0		0		0
Net change in plan fiduciary net position	\$	0	\$	0	\$	0	\$	0	\$	0
Plan fiduciary net position – end of year	\$	0	\$	0	\$	0	\$	0	\$	0
Net OPEB Liability – end of year	\$	7,311,548	\$	10,025,730	\$	8,110,150	\$	8,090,224	\$	9,994,526
Diag fiducian and mosition as 0/ of total ODED link like		0.007		0.007		0.007		0.007		0.007
Plan fiduciary net position as % of total OPEB liability	.	0.0%	+	0.0%	4	0.0%	+	0.0%	*	0.0%
Covered employee payroll	\$	N/A	\$	N/A	\$	N/A	\$	N/A	\$	N/A
Net OPEB liability as % of covered payroll		N/A		N/A		N/A		N/A		N/A

¹ Benefit payment amounts shown are estimates determined by our valuation system rather than actual benefit payment amounts.



State of Indiana Legislature GASB 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	2.19%		2.66%
Discount rate as of end of fiscal year	4.09%		2.19%
Service cost	\$ 35,185	\$	38,653
Interest	214,591		210,460
Changes of benefit terms	0		0
Projected earnings on OPEB plan investments	0		0
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	\$ (461,983)	\$	(325,225)
Changes in assumptions	(100,857)		249,708
Net difference between projected and actual earnings on OPEB plan investments	0		0
Total current period recognition	\$ (562,840)	\$	(75,517)
Total OPEB expense	\$ (313,064)	\$	173,596



State of Indiana Legislature GASB 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	Initial Balance		Initial Initial Balance Amortization Annual Recognition Period				Unamortized lance as of June 30, 2022
June 30, 2018	\$	(1,527,405)	5	\$	(305,481)	\$ 0	
June 30, 2019	\$	(1,136,744)	5	\$	(227,349)	\$ (227,348)	
June 30, 2020	\$	(269,845)	5	\$	(53,969)	\$ (107,938)	
June 30, 2021	\$	1,307,869	5	\$	261,574	\$ 784,721	
June 30, 2022	\$	(683,791)	5	\$	(136,758)	\$ (547,033)	

Changes in assumptions for FYE	Ini	Initial Initial Balance Amortization Period		Amortization Annual Recognition			Unamortized lance as of June 30, 2022
June 30, 2018	\$	(385,363)	5	\$	(77,071)	\$	0
June 30, 2019	\$	335,132	5	\$	67,026	\$	67,028
June 30, 2020	\$	463,515	5	\$	92,703	\$	185,406
June 30, 2021	\$	835,261	5	\$	167,052	\$	501,157
June 30, 2022	\$	(1,752,835)	5	\$	(350,567)	\$	(1,402,268)



State of Indiana Legislature GASB 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	Initia	l Balance	Initial Amortization Period	Annual I	Recognition	Unamortized ance as of June 30, 2022
June 30, 2018	\$	0	5	\$	0	\$ 0
June 30, 2019	\$	0	5	\$	0	\$ 0
June 30, 2020	\$	0	5	\$	0	\$ 0
June 30, 2021	\$	0	5	\$	0	\$ 0
June 30, 2022	\$	0	5	\$	0	\$ 0

As of fiscal year ending June 30, 2022	Deferred Outflows		Def	erred Inflows
Differences between expected and actual experience	\$	784,721	\$	(882,319)
Changes in assumptions		753,591		(1,402,268)
Net difference between projected and actual earnings in OPEB plan investments		0		0
Total	\$	1,538,312	\$	(2,284,587)

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	Balance		
2023	\$	(180,285)	
2024	\$	(19,965)	
2025	\$	(58,699)	
2026	\$	(487,326)	
2027	\$	0	
Thereafter	\$	0	



State of Indiana Legislature GASB 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 4.09%.
- The 1% decrease in discount rate would be 3.09%.
- The 1% increase in discount rate would be 2.09%.

As of June 30, 2022	Net O	Net OPEB Liability		
1% Decrease	\$	8,154,499		
Current Discount Rate	\$	7,311,548		
1% Increase	\$	6,608,406		

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	\$	6,563,852
Current Health Care Trend Rates	\$	7,311,548
1% Increase	\$	8,193,824



Discussion of Discount Rates

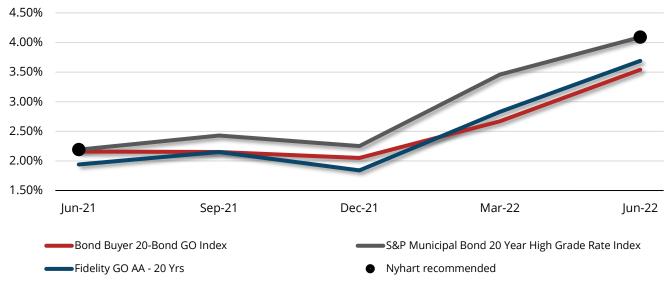
State of Indiana Legislature GASB 75 Valuation for Fiscal Year Ending June 30, 2022

Under GASB 75, the discount rate used in valuing OPEB liabilities for unfunded plans as of the Measurement Date must be based on 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).

For the current valuation, the discount rate was 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.

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

20-Year Municipal Bond Indices





Summary of Key Actuarial Assumptions

State of Indiana Legislature GASB 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.

July 1, 2021 with results actuarially projected on a "no gain / no loss" basis to get to the June 30, 2022 **Actuarial Valuation Date**

measurement date. Liabilities as of July 1, 2021 are based on an actuarial valuation date of July 1, 2021.

Discount Rate 4.09% as of June 30, 2022 and 2.19% as of July 1, 2021 for accounting disclosure purposes.

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.

Salary Scale 2.00% for general wage inflation plus 0.65% for merit and productivity increases.

Inflation Rate 2.00% per year

The inflation rate is based on assumptions approved from the Indiana Public Retirement System (INPRS)

2020 Experience Study and future expectations.

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.



Summary of Key Actuarial Assumptions

State of Indiana Legislature GASB 75 Valuation for Fiscal Year Ending June 30, 2022

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.

Dental and vision trend rates are assumed to be 3.0% per year.

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.