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October 2020

State Judiciary/2099 Oregon Public Employees Retirement System

As part of our engagement with the Oregon Public Employees Retirement Board, we performed a system-wide actuarial valuation of the Oregon Public Employees Retirement System ("PERS" or "the System") as of December 31, 2019. The attached report, which is an informational supplement to the system-wide report, provides you with employer-specific contribution rates that will become effective July 1, 2021. Information to assist you in preparing your required financial reporting disclosures under Statement 68 and Statement 75 of the Governmental Accounting Standards Board (GASB) will be provided separately by PERS and is not included in this report.

This report reflects the System's benefit provisions in effect as of December 31, 2019, including Senate Bill 1049 which was enacted in June 2019. The report also reflects the Tier 1/Tier 2 reamortization provisions of Senate Bill 1049. The full development of the valuation results for the Retiree Health Insurance Account (RHIA) and Retiree Health Insurance Premium Account (RHIPA) programs can be found in the separate system-wide actuarial valuation report. The State Judiciary does not participate in the OPSRP or IAP Plans.

If you have any questions about this report, please contact actuarial.services@pers.state.or.us.

# **Contents of Report**

The executive summary provides the basic information you need including:

- Contribution rates, and
- A summary of principal valuation results.

The remainder of the report provides additional information including:

- Detailed development of Tier 1/Tier 2 valuation results,
- A brief summary of methods and assumptions, and
- A brief summary of any changes in System benefit provisions.

Additional information is provided in the system-wide actuarial valuation report, which is available at www.oregon.gov/PERS/Pages/Financials/Actuarial-Financial-Information.aspx.



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In preparing this report, we relied, without audit, on information (some oral and some in writing) supplied by the System's staff. This information includes, but is not limited to, System benefit provisions as defined by statute, member census data, and financial information. We found this information to be reasonably consistent and comparable with information used for other purposes. 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.

All costs, liabilities, rates of interest, and other factors for the System have been determined on the basis of actuarial assumptions and methods which are individually reasonable (taking into account the experience of the System and reasonable expectations) and which, in combination, offer a reasonable estimate of anticipated experience affecting the System.

A valuation report is only an estimate of the System's financial condition as of a single date. It can neither predict the System's future condition nor guarantee future financial soundness. Actuarial valuations do not affect the ultimate cost of System benefits, only the timing of System contributions. While a valuation is based on an array of individually reasonable assumptions, other assumption sets may also be reasonable and valuation results based on those assumptions would be different. No one set of assumptions is uniquely correct.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: System 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 System's funded status); and changes in System benefit provisions or applicable law. Due to the limited scope of this assignment, we did not perform an analysis of the potential range of future measurements. The Board has the final decision regarding the appropriateness of the assumptions and adopted them as indicated in October 2019.

The actuarial computations presented in this report are for purposes of determining the contribution rates effective from July 2021 to June 2023 for System employers. The calculations in the enclosed report have been made on a basis consistent with our understanding of the System's funding requirements and goals, and with our understanding of the System benefit provisions described in the appendices of this report. Determinations for other purposes may be significantly different from the results contained in this report. Accordingly, additional determinations may be needed for other purposes.



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This report is prepared solely for the use and benefit of the Oregon Public Employees Retirement System, the employer named above, or its auditors solely for the purpose of completing an audit related to the matters herein. To the extent that this report is not subject to disclosure under applicable public records laws, it may not be provided to other third parties without Milliman's prior written consent. Milliman does not intend to benefit or create a legal duty to any third party recipient of this report. Milliman's consent to release this report to any third party may be conditioned on the third party signing a release except for situations where such release is prohibited by law.

No third party recipient of this report should rely upon Milliman's work contained herein. Such recipients should engage qualified professionals for advice appropriate to their own specific needs.

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

The signing actuaries are independent of the System. We are not aware of any relationship that would impair the objectivity of our work.

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 has been prepared in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the principles prescribed by the Actuarial Standards Board and the Code of Professional Conduct and Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States published by the American Academy of Actuaries. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein.

Additional information is provided in the system-wide actuarial valuation report.

Sincerely,

Matt Larrabee, FSA, EA, MAAA Principal and Consulting Actuary Scott Preppernau, FSA, EA, MAAA Principal and Consulting Actuary

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# **ACTUARIAL VALUATION REPORT DECEMBER 31, 2019**

# OREGON PUBLIC EMPLOYEES RETIREMENT SYSTEM

State Judiciary -- #2099

October 2020

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Milliman has prepared this report for State Judiciary to:

- Provide summary December 31, 2019 valuation results for the Retiree Health Insurance Account (RHIA) and the Retiree Health Insurance Premium Account (RHIPA),
- Provide employer-specific contribution rates effective July 1, 2021 through June 30, 2023, and
- Provide employer-specific valuation results on assets and liabilities as of December 31, 2019.

This report summarizes the valuation results for the RHIA and RHIPA. The full development of these results can be found in the December 31, 2019 system-wide actuarial valuation report. This report develops employer-specific pension rates and applies the results from the system-wide valuation to State Judiciary. In the system-wide actuarial valuation report, pension valuation results for the State Judiciary are included in the Tier 1/Tier 2 valuation results for Independent Employers.

#### **Employer Contribution Rates**

The following table summarizes the employer contribution rates effective July 1, 2021 through June 30, 2023.

#### Employer Rates Effective July 1, 2021 for State Judiciary

Pension	
Employer normal cost rate	19.65%
UAL rate <sup>1</sup>	4.91%
Employer pension contribution rate	24.56%
Member pension contribution rate	7.00%
Total pension contribution rate	31.56%
Retiree Healthcare	
Normal cost rate	0.16%
UAL rate	0.17%
Total retiree healthcare rate	0.33%
Total contribution rate	31.89%

Includes Multnomah Fire District #10 rate.

#### **Employer Contribution Rates (continued)**

# Range of Potential Tier 1/Tier 2 Employer Pension Contribution Rates for the July 2023 to June 2025 Biennium

The rate collar limits changes in contribution rates. The table below shows the possible minimum and maximum rates first effective as of July 1, 2023, which will depend on the funded status as of December 31, 2021. If the employer's funded status is less than 60 percent or greater than 140 percent, the rate collar doubles in size. If the employer's funded status is between 60 and 70 percent or between 130 and 140 percent, the size of the rate collar is increased on a graded scale.

For comparison, the funded status as of December 31, 2019 is 78%.

Funded Status as of December 31, 2021	70% to 130%	Under 60% or Over 140%
2021-2023 Tier 1/Tier 2 Normal Cost + Tier 1/Tier 2 UAL Rate	24.56%	24.56%
Minimum 2023-2025 Rate	19.65%	14.74%
Maximum 2023-2025 Rate	29.47%	34.38%

### **Accounting Information**

Milliman is not an accounting or audit firm and cannot provide accounting advice. Milliman is not responsible for the interpretation of, or compliance with, accounting standards; citations to, and descriptions of accounting standards provided in this report are for reference purposes only. The information provided in this section is intended to assist the employer in completing its financial statements, but any accounting determination should be reviewed by your auditor.

#### Pension

In June 2012 the GASB issued Statement No. 68 (GASB 68), which replaced Statement No. 27 and governs employer financial reporting for fiscal years beginning after June 15, 2014. The new standard replaced many of the key elements of the prior reporting requirements. Under the new rules, employers are required to record a balance sheet liability for their unfunded pension obligations. In addition, the timing and coordination of plan and employer reporting has changed under the new requirements. GASB 68 information for employers will be provided separately by PERS and is not included in this report.

# Schedule of Funding Progress

Under GASB 27, the Schedule of Funding Progress for Tier 1/Tier 2 pension liabilities was reported in the Required Supplementary Information. This schedule is no longer required now that GASB 68 has replaced GASB 27. However, for additional information and the sake of historical comparison, the updated schedule is shown below for the last several valuations. For employers with side accounts, the actuarial value of assets in this Schedule includes the value of the employer's side accounts.

Actuarial Valuation	Actuarial Value of Assets	Actuarial Accrued Liability (AAL)	Unfunded AAL	Funded Ratio	Covered Payroll	UAAL as a Percentage of Covered Payroll
Date	(a)	(b)	(b - a)	(a ÷ b)	(c)	((b-a) ÷ c)
12/31/2014	\$232,929,898	\$257,229,409	\$24,299,511	91%	\$23,415,404	104%
12/31/2015	227,733,468	269,239,976	41,506,508	85%	23,602,940	176%
12/31/2016	230,602,015	285,616,344	55,014,329	81%	23,539,629	234%
12/31/2017	262,639,343	304,198,922	41,559,579	86%	23,894,906	174%
12/31/2018	242,406,445	317,657,820	75,251,374	76%	25,010,239	301%
12/31/2019	255,321,589	327,246,147	71,924,558	78%	25,861,231	278%

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# **Accounting Information (continued)**

#### Retiree Healthcare

In June 2015, the GASB issued Statement No. 75 (GASB 75), which replaces Statement No. 45 and governs employer financial reporting for retiree healthcare obligations for fiscal years beginning after June 15, 2017. In general, the changes required by GASB 75 parallel those that occurred for pension reporting when GASB 68 replaced GASB 27. Accounting information for reporting the Retiree Health Insurance Account (RHIA) and Retiree Health Insurance Premium Account (RHIPA) under GASB 75 will be provided separately and is not included in this report.

#### **Principal Valuation Results**

A summary of principal valuation results from the current valuation and the prior valuation follows. Any changes in actuarial assumptions, methods, or plan provisions between the two valuations are described later in this report. More detailed information can be found in the system-wide actuarial valuation report.

## State Judiciary

	Actuarial Valuation as of		
	December 31, 2019	December 31, 2018	
Total normal cost	\$6,892,392	\$6,404,744	
Valuation payroll	25,861,231	25,010,239	
Total normal cost rate (includes member contributions)	26.65%	25.61%	
Actuarial accrued liability	\$327,246,147	\$317,657,820	
Actuarial asset value	255,321,589	242,406,445	
Unfunded actuarial accrued liability	71,924,558	75,251,375	
Funded status	78%	76%	
Combined valuation payroll	\$25,861,231	\$25,010,239	
JAL as a percentage of payroll	278%	301%	
JAL rate (includes Multnomah Fire District #10)	4.91%	5.95%	
Allocated pooled RHIA UAL	(538,695)	(366,595)	
Allocated pooled RHIPA UAL	55,232	189,088	
Active members <sup>1</sup>	188	183	
Dormant members	16	14	
Retirees and beneficiaries	272	260	

Active counts do not include concurrent employees who have a separate dominant employer.

#### **Principal Valuation Results (continued)**

#### Retiree Healthcare

(\$ in millions)	Actuarial Valuation as of		
RHIA	December 31, 2019	December 31, 2018	
Normal cost	\$1.9	\$2.2	
Tier 1 / Tier 2 valuation payroll	3,873.9	4,076.1	
Normal cost rate	0.05%	0.05%	
Actuarial accrued liability	\$403.9	\$411.7	
Actuarial asset value	644.1	570.7	
Unfunded actuarial accrued liability	(240.3)	(159.1)	
Funded status	159%	139%	
Combined valuation payroll	\$11,533.7	\$10,852.0	
UAL as a percentage of payroll	(2%)	(1%)	
UAL rate	0.00%	0.00%	

(\$ in millions) Actuarial Valuation as of		
RHIPA	December 31, 2019	December 31, 2018
Normal cost	\$1.2	\$1.3
Tier 1 / Tier 2 valuation payroll	1,120.6	1,159.5
Normal cost rate	0.11%	0.11%
Actuarial accrued liability	\$59.3	\$62.7
Actuarial asset value	51.9	38.5
Unfunded actuarial accrued liability	7.4	24.3
Funded status	87%	61%
Combined valuation payroll	\$3,479.8	\$3,211.6
UAL as a percentage of payroll	0%	1%
UAL rate	0.17%	0.22%

RHIPA liabilities are allocated to State Agencies and the State Judiciary, the only employers participating in the RHIPA program.

#### **Assets**

A summary of the market value of pension assets, and reconciliation from the prior year are shown below.

#### Summary of Market Value of Pension Assets

	December 31, 2019	December 31, 2018
1. Member reserves	\$29,823,214	\$29,480,379
2. Employer reserves	135,922,765	126,265,058
3. Benefits in force reserve	89,575,609	86,661,009
4. Total market value of assets (1. + 2. + 3.)	\$255,321,589	\$242,406,445

The market value of member and employer reserves is provided by PERS. The benefits in force reserve provided by PERS is allocated each year among employers in proportion to their liabilities for benefits in force.

#### Reconciliation of Pension Assets

		December 31, 2018 to December 31, 2019
1. Market va	alue of assets at beginning of year	\$242,406,445
2. Regular e	employer and member contributions	7,090,342
3. Benefit p	ayments and expenses	(20,227,410)
4. Adjustme	nts <sup>1</sup>	(3,894,292)
5. Interest of	redited	29,946,503
6. Total tran	sferred from side accounts	0
7. Market v	alue of assets at end of year	\$255,321,589
(1. + 2. +	3. + 4. + 5. + 6.)	

Note the adjustment item above includes a reallocation of the benefits in force reserve, transfers to Multnomah Fire District #10, and other adjustments made by PERS.

#### Liabilities

#### **Normal Cost**

The normal cost represents the value of benefits assigned to the next year of service by the actuarial cost method. If all actuarial assumptions are met, the normal cost represents the amount that would need to be contributed each year to fund plan benefits. Amounts shown below include assumed administrative expenses, which are allocated pro-rata based on normal cost.

#### Summary of Normal Cost

	December 31, 2019	December 31, 2018
Total Normal Cost	\$6,892,392	\$6,404,744

#### Change in Total Normal Cost Due to Changes

The following table shows the impact of the assumption, method, and plan changes on normal cost as of December 31, 2019.

	Before	After	Net
	Changes	Changes	Change
Total Normal Cost	\$6,892,392	\$6,892,392	\$0

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#### **Liabilities (continued)**

## Actuarial Accrued Liability

The actuarial accrued liability represents the value of benefits allocated to service performed before the valuation date by the actuarial cost method. If all actuarial assumptions are met, the actuarial accrued liability represents the amount of assets that would need to be accumulated as of the valuation date to provide for the portion of benefits allocated to service already performed.

	December 31, 2019	December 31, 2018
Active Members	\$81,057,367	\$85,136,800
Dormant Members	5,060,644	6,373,257
Retired Members and Beneficiaries	241,128,136	226,147,763
Total Actuarial Accrued Liability	\$327,246,147	\$317,657,820

#### Change in Actuarial Accrued Liability Due to Changes

The following table shows the impact of the assumption, method, and plan changes on the actuarial accrued liability as of December 31, 2019.

	Before	After	Net
	Changes	Changes	Change
Actuarial Accrued Liability	\$327.246.147	\$327.246.147	\$0

reviewing the Milliman work product.

#### Tier 1/Tier 2 Valuation Results

#### **Unfunded Accrued Liability (UAL)**

#### Summary of UAL

The UAL represents the difference between the assets accumulated and the liability attributed to prior years of service by the cost method.

	December 31, 2019	December 31, 2018
Actuarial accrued liability	\$327,246,147	\$317,657,820
2. Actuarial value of assets	255,321,589	242,406,445
3. Unfunded accrued liability (1. −2.)	71,924,558	75,251,375
4. Funded percentage (2. ÷ 1.)	78%	76%
5. Combined valuation payroll	\$25,861,231	\$25,010,239
6. Unfunded accrued liability as % of combined valuation payrol (3. ÷ 5.)	I 278%	301%

#### Reconciliation of UAL Bases

Beginning with the December 31, 2013 actuarial valuation, the PERS Board established a policy to amortize the Tier 1/Tier 2 UAL over a 20-year period, with each subsequent odd-year valuation establishing a new 20 year closed-period amortization schedule for new Tier 1/Tier 2 UAL amounts based on the total Tier 1/Tier 2 UAL as of that valuation date less the remaining unamortized balance of previously established Tier 1/Tier 2 UAL bases. As part of Senate Bill 1049, passed in 2019, the Legislature directed the PERS Board to enact a one-time re-amortization of Tier 1/Tier 2 UAL over 22 years. This means that, effective with the December 31, 2019 rate-setting valuation, the entire unamortized Tier 1/Tier 2 UAL for each rate pool and independent employer will be re-amortized over a 22 year period as a level percentage of projected future payroll. For the December 31, 2021 and subsequent odd-year valuations, the PERS Board will again have authority to set the amortization schedule. It is anticipated that the policy of 20-year closed-period amortization schedules will be reintroduced at that point.

Amortization Base	UAL December 31, 2018	Payment	Interest	De	UAL cember 31, 2019	Next Year's Payment
December 31, 2019	N/A	N/A		N/A	\$71,924,558	\$4,761,324
Total					\$71,924,558	\$4,761,324

### **Unfunded Accrued Liability (UAL) (continued)**

#### Actuarial Gain or Loss since Prior Valuation

The system-wide actuarial valuation report contains a detailed analysis of gains and losses since the last valuation. The table below shows the gain or loss for the individual employer.

a. Actuarial accrued liability at December 31, 2018	\$317,657,820
b. Total normal cost at December 31, 2018 (excluding assumed expenses)	6,068,642
c. Benefit payments during 2019	(20,077,917)
d. Interest at 7.20% to December 31, 2019	22,367,029
e. Expected actuarial accrued liability before changes $(a. + b. + c. + d.)$	326,015,574
f. Change in actuarial accrued liability due to assumption, method, and plan changes	0
g. Expected actuarial accrued liability at December 31, 2019 (e. + f.)	326,015,574
2. Actuarial accrued liability at December 31, 2019	327,246,147
3. Gain/(loss) on actuarial accrued liability $(1.g2.)$	(1,230,573)
4. Expected actuarial value of assets	
a. Actuarial value of assets at December 31, 2018	242,406,445
b. Contributions for 2019 <sup>1</sup>	7,090,342
c. Benefit payments and expenses during 2019	(20,227,410)
d. Interest at 7.20% to December 31, 2019	16,980,330
e. Expected actuarial value of assets at December 31, 2019 (a. + b. + c. + d.)	246,249,707
5. Actuarial value of assets at December 31, 2019	255,321,589
6. Gain/(loss) on actuarial value of assets (5 4.e.)	9,071,882
7. Total actuarial gain/(loss) (3. + 6.)	\$7,841,309

# **Unfunded Accrued Liability Reconciliation**

A reconciliation of the Tier 1/Tier 2 UAL from December 31, 2018 is provided below.

1. UAL at December 31, 2018	\$75,251,375
2. Expected increase	4,514,492
3. Liability (gain)/loss	1,230,573
4. Asset (gain)/loss	(9,071,882)
5. Change due to changes in assumptions, methods, and plan provisions	0
6. UAL at December 31, 2019 (1. + 2. + 3. + 4. + 5.)	\$71,924,558

<sup>&</sup>lt;sup>1</sup> Excludes contributions for Multnomah Fire District.

#### **Contribution Rate Development**

#### Normal Cost Rate

For State Judiciary, the total normal cost calculated previously is divided by projected payroll to determine a total normal cost rate. The member contribution rate is subtracted from the total normal cost rate to determine the employer normal cost rate. The table below shows the development of the rate.

#### Development of Normal Cost Rate

	De	December 31, 2019		December 31, 2018		
	Normal Cost	Employer Tier 1/Tier 2 Valuation Payroll	Normal Cost Rate	Normal Cost	Employer Tier 1/Tier 2 Valuation Payroll	NormalC ost Rate
Total normal cost	\$6,892,392	\$25,861,231	26.65%	\$6,404,744	\$25,010,239	25.61%
Member contribution ra	ate		(7.00%)			(7.00%)
Employer normal cost	rate		19.65%			18.61%

# **Contribution Rate Development (continued)**

#### **Development of UAL Rates**

The UAL rate is determined by calculating the next year's scheduled payment to the UAL as a percentage of combined valuation payroll.

	December 31, 2019	December 31, 2018
1. Total UAL	\$71,924,558	\$75,251,375
2. Next year's UAL payment	4,761,324	4,981,555
3. Combined valuation payroll	25,861,231	25,010,239
4. UAL rate (2. ÷ 3)	18.41%	19.92%

#### **Contribution Rate Development (continued)**

# Pension Contribution Rate Summary (Pre-Rate Collar)

The following table summarizes the employer's pension contribution rate.

	July 1, 2021 Rates calculated as of December 31, 2019	Advisory July 1, 2021 Rates calculated as of December 31, 2018
Employer pension contribution rates		
a. Employer Normal Cost Rate	19.65%	18.61%
b. UAL rate	18.41%	19.92%
c. Multnomah Fire District #10 rate	0.14%	0.14%
d. Total employer pension rate	38.20%	38.67%
(a. + b. + c.)		
2. Member pension contribution rate	7.00%	7.00%
3. Total pension contribution rate	45.20%	45.67%

#### **Contribution Rate Development (continued)**

#### Adjustments Due to Rate Collar

Employer contribution rates are generally limited to change by no more than the greater of 3 percent of payroll or 20 percent from the current contribution rate. However, if the funded percentage excluding side accounts is below 60 percent or above 140 percent, the rate collar doubles in size. If the funded percentage excluding side accounts is between 60 and 70 percent or between 130 and 140 percent, the size of the collar is increased on a graded scale.

The table below shows the current contribution rate for the period from July 1, 2019 through June 30, 2021, develops the maximum and minimum contribution rates effective July 1, 2021 based on the collar, and calculates the net adjustment due to the collar.

27.47%
7.00%
20.47%
4.09%
4.09%
78%
4.09%
16.38%
24.56%
38.20%
(13.64%)
18.41%
4.77%
24.56%

#### **Contribution Rate Development (continued)**

## Pension Contribution Rate Summary (Post Rate Collar)

The table below summarizes the employer's pension contribution rate for Tier 1 /Tier 2 after adjustments for the rate collar.

	July 1, 2021 Rates calculated as of December 31, 2019	Advisory July 1, 2021 Rates calculated as of December 31, 2018
Employer pension contribution rates		
a. Employer normal cost rate	19.65%	18.61%
b. UAL rate	4.77%	5.81%
c. Multnomah FD #10 rate	0.14%	0.14%
<ul><li>d. Total employer pension rate</li><li>(a. + b. + c., minimum 0.00%)</li></ul>	24.56%	24.56%
2. Member pension contribution rate	7.00%	7.00%
3. Total pension contribution rate	31.56%	31.56%

# Data

# **Demographic Information**

# State Judiciary Member Census

	December 31, 2019	December 31, 2018
Active Members <sup>1</sup>	188	183
Active Members with previous service segments with the employe	r 1	1
Dormant Members	16	14
Retired Members and Beneficiaries	272	260
Grand Total Number of Members	477	458

Active counts do not include concurrent employees who have a separate dominant employer.

#### Data

# **Demographic Information (continued)**

# State Judiciary Active Members as of December 31, 2019

	Years of Service									
Age	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+	Tota
<20										
20-24										
25-29										
30-34										
35-39	4									4
40-44	10	1	1	1						13
45-49	12	4	2	5	2					25
50-54	15	18	7	3	6	2				51
55-59	8	8	3	7	5	5				36
60-64	2	7	3	3	2	5	3			25
65-69	1	4	4	7	4	3	1	1	1	26
70-74		1	1		1	2	2			7
75+									1	1
Total	52	43	21	26	20	17	6	1	2	188

# Distribution of State Judiciary Dormant Members

# Distribution of State Judiciary Retired Members and Beneficiaries

Age	Count	Average Deferred Monthly Benefit	Age	Count	Average Monthly Benefit		
<20			<45				
20-24			45-49				
25-29			50-54				
30-34			55-59	3	5,003		
35-39	1	203	60-64	12	7,261		
40-44	1	1,746	65-69	53	6,773		
45-49			70-74	79	7,320		
50-54	2	2,438	75-79	55	6,326		
55-59	5	3,356	80-84	23	6,438		
60-64	2	3,431	85-89	24	6,040		
65-69	3	1,269	90-94	20	5,233		
70-74	1	356	95-99	3	3,932		
75+	1	8,858	100+				
Total	16	2,718	Total	272	6,606		

# Brief Summary of Actuarial Methods and Assumptions

A detailed summary of the actuarial methods and assumptions used to prepare the December 31, 2019 valuation can be found in the system-wide actuarial valuation report.

#### **Actuarial Methods and Valuation Procedures**

A brief summary of the methods used in this valuation is shown below:

Actuarial cost method	Entry Age Normal.
Amortization method	The UAL is amortized as a level percentage of combined payroll.
	The OPSRP UAL as of December 31, 2007 and experience in each subsequent biennium is amortized over a closed 16 year period.
	The Retiree Healthcare UAL as of December 31, 2007 and experience in each subsequent biennium is amortized over a closed 10 year period.
	All existing Tier 1/Tier 2 UAL was re-amortized over a 20 year period as of the December 31, 2013 rate-setting valuation. Gains and losses between subsequent odd-year valuations will be amortized as a level percentage of projected combined valuation payroll over a closed 20 year period. Senate Bill 1049 was signed into law in June 2019 and requires a one-time re-amortization of Tier 1/Tier 2 UAL over a closed 22 year period at the December 31, 2019 rate-setting actuarial valuation, which will set actuarially determined contribution rates for the 2021-2023 biennium.

Asset valuation method Market value of assets, excluding reserves.

Contribution rate stabilization method (rate collar)

The contribution rate stabilization method, also referred to as the rate collar, is applied separately to each Tier 1/Tier 2 experience sharing pool (State and Local Government Rate Pool, School Districts) and independent employer. The collar's centering point for Tier 1/Tier 2 calculations is the sum of the Tier 1/Tier 2 Normal Cost and Tier 1/Tier 2 UAL Rates currently in effect. In the subsequent biennium, the increase in the sum of those two rate components is limited by the collar to 20% of the current sum of those two rate components, or 3% of payroll, if greater. If the funded status excluding side accounts is less than 70%, the width of the collar widens on a graded scale, reaching 40% of the current sum of the two rate components or 6% of payroll, if greater, if funded status excluding side accounts is 60% or less. A separate but parallel rate collar calculation is performed for the sum of the OPSRP Normal Cost and OPSRP UAL rates based on the funded status of the OPSRP program.

# **Economic Assumptions**

A brief summary of the key economic assumptions used in this valuation is shown below:

Net investment return	7.20% compounded annually on system assets.
Interest crediting	<ul><li>7.20% compounded annually on members' regular account balances.</li><li>7.20% compounded annually on members' variable account balances.</li></ul>
Consumer price inflation	2.50% per year.
Future general wage inflation	3.50% per year.
Healthcare cost inflation	Ranging from 5.8% in 2020 to 4.1% in 2094.
Administrative Expenses	\$8.0 million, added to OPSRP normal cost. \$32.5 million, added to Tier 1/Tier 2 normal cost.

# Brief Summary of Actuarial Methods and Assumptions

#### **Changes Since Last Valuation**

The key changes since the December 31, 2018 actuarial valuation are described briefly below and are described in additional detail in the system-wide report.

#### Changes in Actuarial Methods and Allocation Procedures

There were no changes in actuarial methods and allocation procedures since the December 31, 2018 actuarial valuation. A complete summary of the Tier 1/Tier 2, OPSRP, RHIA, and RHIPA actuarial methods and allocation procedures is provided as part of the system-wide valuation report.

## Changes in Assumptions

There were no changes in assumptions since the December 31, 2018 actuarial valuation. A complete summary of the Tier 1/Tier 2, OPSRP, RHIA, and RHIPA assumptions is provided as part of the system-wide valuation report.

# Brief Summary of Changes in Plan Provisions

There were no changes in plan provisions since the December 31, 2018 actuarial valuation. A complete summary of the Tier 1/Tier 2, OPSRP, RHIA, and RHIPA plan provisions valued is provided as part of the system-wide actuarial valuation report.

# Glossary

#### **Actuarial Accrued Liability**

The portion of the present value of prospective benefits allocated to service and compensation before the valuation date in accordance with the actuarial cost method.

#### **Actuarial Asset Value**

The value of assets used in calculating the required contributions. The actuarial asset value may be equal to the fair market value of assets, or it may spread the recognition of certain investment gains or losses over a period of years in accordance with an asset valuation method.

#### **Actuarial Assumptions**

Assumptions as to the occurrence of future events affecting pension costs, such as: mortality, withdrawal, disablement and retirement, rates of investment earnings, and other relevant items.

#### **Actuarial Cost Method**

Sometimes called "funding method," a particular technique used by actuaries to establish the amount and incidence of the annual actuarial cost of pension plan benefits, or normal cost, and the related unfunded actuarial accrued liability. Ordinarily, the annual contribution to the plan comprises the normal cost and an amount for amortization of the unfunded actuarial accrued liability.

#### **Actuarial Gain or (Loss)**

A measure of the difference between actual experience and that expected based upon a set of actuarial assumptions, during the period between two actuarial valuation dates, as determined in accordance with a particular actuarial cost method.

#### **Combined Valuation Payroll**

Projected payroll subject to PERS employer contribution rates for the calendar year following the valuation date for both Tier 1/Tier 2 and OPSRP active members. This payroll is used to calculate UAL rates.

#### **Employer Contribution Rate**

Consists of the normal cost rate and the UAL rates, plus adjustments for other items such as side account rate offsets.

#### **Funded Status**

The actuarial value of assets expressed as a percentage of the actuarial accrued liability.

#### **Normal Cost**

The annual cost allocated to the current year under the actuarial cost method in use. The normal cost divided by the applicable payroll is the normal cost rate.

#### **OPSRP Valuation Payroll**

Projected payroll subject to PERS employer contribution rates for the calendar year following the valuation date for OPSRP active members. This payroll is used to calculate OPSRP normal cost rates.

# Glossary

#### **Pre-SLGRP Liability**

The sum of Pre-SLGRP Pooled Liabilities and Transition Liabilities.

#### **Pre-SLGRP Pooled Liability**

The difference between the total UAL and the UAL attributable to the SLGRP for a pool of employers that joined the SLGRP. There are currently two pre-SLGRP pools. One was created for State Agencies and Community Colleges when the SLGRP was formed. The other one was created when the Local Government Rate Pool joined the SLGRP.

#### **Present Value**

Sometimes called "actuarial present value," the estimated cost (as of the valuation date) of a series of future payments. The present value is determined by discounting the future payments at a predetermined rate of interest, taking into account the probability of payment.

#### **Rate Collar**

A contribution rate setting methodology that defines the maximum biennium-to-biennium change in the sum of the normal cost rate and the associated UAL rate for a given experience-sharing pool. The width of the collar is determined by the pool's current normal cost rate, UAL rate and funded status.

#### Required Supplementary Information (RSI)

Schedules, statistical data, and other information that are an essential part of financial reporting and should be presented with, but are not part of, the basic financial statements of a governmental entity.

#### Statement No. 27 of the Governmental Accounting Standards Board (GASB 27)

The accounting standard governing a state or local governmental employer's accounting for pensions prior to GASB 68.

#### Statement No. 45 of the Governmental Accounting Standards Board (GASB 45)

The accounting standard governing a state or local governmental employer's accounting for postemployment benefits other than pensions prior to GASB 75.

#### Statement No. 68 of the Governmental Accounting Standards Board (GASB 68)

The accounting standard governing a state or local governmental employer's accounting for pensions for fiscal years beginning after June 15, 2014.

#### Statement No. 75 of the Governmental Accounting Standards Board (GASB 75)

The accounting standard governing a state or local governmental employer's accounting for postemployment benefits other than pensions for fiscal years beginning after June 15, 2017.

#### Tier 1/Tier 2 Valuation Payroll

Projected payroll subject to PERS employer contribution rates for the calendar year following the valuation date for Tier 1 and Tier 2 active members. This payroll is used to calculate the Tier 1/Tier 2 normal cost rate.

#### **Transition Liability**

The difference between the total UAL and the UAL attributable to the SLGRP for an individual employer that joined the SLGRP or the Local Government Rate Pool.

#### **Unfunded Accrued Liability (UAL)**

The excess of the Actuarial Accrued Liability over the Actuarial Value of Assets. The UAL is divided by combined valuation payroll and an amortization factor to determine an initial pre-collar UAL rate. The final UAL rate can be adjusted by the rate collar.



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