

## Overview of System Membership

The state administers nine retirement systems for state and local public employees. Retirement system membership is determined according to the participant's occupation and employer. Employees covered by each system are defined in separate chapters of the Revised Code of Washington.

In addition to the six systems described below, the state also administers benefits for volunteer fire fighters and two small judicial systems, which are not included in this valuation. The volunteer fire fighters have a separate actuarial valuation. The judicial systems are closed to new members, and any judge hired after June 30, 1988, becomes a member of the Public Employees' Retirement System Plans 2/3.

<b>PERS</b> - Public Employees' Retirement System <i>Chapter 41.40 RCW</i>	State employees; employees of all counties and most cities (some exceptions are Tacoma, Seattle, and Spokane); non-teaching employees of institutions of higher learning and community colleges; employees of ports, service districts, Energy Northwest, public utility districts, and judges first elected or appointed after June 30, 1988.
<b>TRS</b> - Teachers' Retirement System <i>Chapter 41.32 RCW</i>	Certificated teachers; administrators; and educational staff associates.
<b>SERS</b> - School Employees' Retirement System <i>Chapter 41.35 RCW</i>	Classified school district employees.
<b>PSERS</b> - Public Safety Employees' Retirement System <i>Chapter 41.37 RCW</i>	Correction officers (state, state community, county, city, and local community); state park rangers; enforcement officers with the Liquor and Cannabis Board, Washington State Patrol (commercial vehicle), Gambling Commission, and the Department of Natural Resources; security staff and nurses working at certain state institutions and local correctional departments.
<b>LEOFF</b> - Law Enforcement Officers' and Fire Fighters' Retirement System <i>Chapter 41.26 RCW</i>	Fire fighters; emergency medical technicians; law enforcement officers including sheriffs; university, port, city police officers, and enforcement officers with the Department of Fish and Wildlife.
<b>WSPRS</b> - Washington State Patrol Retirement System <i>Chapter 43.43 RCW</i>	Commissioned officers of the Washington State Patrol.

Beginning with the 2015 valuation period, OSA performs actuarial valuations for certain retirement provisions under Higher Education Retirement Plans. These plans are offered to certain employees of colleges and universities in Washington and are not administered by the Department of Retirement Systems. The results of these valuations are prepared in separate reports.

Active Membership By Employer and Plan as of June 30, 2018							
Employer	All	PERS			TRS		
	Systems	Plan 1	Plan 2	Plan 3	Plan 1	Plan 2	Plan 3
State Agencies	63,873	604	44,724	13,804	5	30	52
Higher Education	23,020	214	14,425	7,923	5	5	334
Community Colleges	6,566	73	4,252	1,771	16	41	413
K-12	134,338	534	0	0	461	19,874	53,282
Counties	34,867	291	24,283	5,192	0	0	0
County Sub Divisions	14,795	91	11,095	3,052	0	0	0
First Class Cities	8,656	35	2,591	705	0	0	0
Other Cities	19,095	93	11,249	2,432	0	0	0
Ports	2,685	21	2,000	450	0	0	0
Education Service District	2,237	9	0	0	4	81	234
Fire Districts	4,937	4	717	125	0	0	0
Public Utility District	4,850	25	4,162	663	0	0	0
Water Districts	2,182	16	1,889	277	0	0	0
Energy Northwest	1,092	1	778	313	0	0	0
Charter Schools	264	0	0	0	0	58	113
Tribal Compact Schools	34	0	0	0	0	7	4
<b>Total</b>	<b>323,491</b>	<b>2,011</b>	<b>122,165</b>	<b>36,707</b>	<b>491</b>	<b>20,096</b>	<b>54,432</b>

Active Membership By Employer and Plan as of June 30, 2018							
Employer	SERS		PSERS	LEOFF		WSPRS	
	Plan 2	Plan 3	Plan 2	Plan 1	Plan 2	Plan 1	Plan 2
State Agencies	0	0	3,481	0	132	444	597
Higher Education	0	0	0	0	114	0	0
Community Colleges	0	0	0	0	0	0	0
K-12	26,437	33,750	0	0	0	0	0
Counties	0	0	2,246	5	2,850	0	0
County Sub Divisions	0	0	125	0	432	0	0
First Class Cities	0	0	33	16	5,276	0	0
Other Cities	0	0	295	3	5,023	0	0
Ports	0	0	0	0	214	0	0
Education Service District	945	964	0	0	0	0	0
Fire Districts	0	0	0	2	4,089	0	0
Public Utility District	0	0	0	0	0	0	0
Water Districts	0	0	0	0	0	0	0
Energy Northwest	0	0	0	0	0	0	0
Charter Schools	35	58	0	0	0	0	0
Tribal Compact Schools	14	9	0	0	0	0	0
<b>Total</b>	<b>27,431</b>	<b>34,781</b>	<b>6,180</b>	<b>26</b>	<b>18,130</b>	<b>444</b>	<b>597</b>

## Participant Data

## 2018 Actuarial Valuation

The following tables show participant data changes from last year's valuation to this year's valuation. We divide the participant data into two main categories:

- ❖ **Actives** — members accruing benefits in the plan.
- ❖ **Annuitants** — members and beneficiaries receiving benefits from the plan.

Reconciliation of Active and Annuitant Data								
	PERS				TRS			
	Plan 1	Plan 2	Plan 3	Total	Plan 1	Plan 2	Plan 3	Total
<b>2017 Actives</b>	2,597	121,934	34,943	159,474	698	18,747	53,780	73,225
Transfers	0	(260)	5,696	5,436	0	(40)	2,960	2,920
Hires/Rehires	33	12,576	855	13,464	7	3,087	1,847	4,941
New Retirees	(549)	(3,179)	(453)	(4,181)	(199)	(218)	(923)	(1,340)
Deaths	(12)	(201)	(33)	(246)	(2)	(16)	(44)	(62)
Terminations	(58)	(8,705)	(4,301)	(13,064)	(13)	(1,464)	(3,188)	(4,665)
<b>2018 Actives</b>	<b>2,011</b>	<b>122,165</b>	<b>36,707</b>	<b>160,883</b>	<b>491</b>	<b>20,096</b>	<b>54,432</b>	<b>75,019</b>
<b>2017 Annuitants</b>	48,111	46,537	4,262	98,910	34,151	5,060	10,264	49,475
New Retirees	732	4,897	731	6,360	248	423	1,674	2,345
Annuitant Deaths	(2,290)	(1,104)	(54)	(3,448)	(1,178)	(71)	(74)	(1,323)
New Survivors	332	339	29	700	167	26	62	255
Other	(5)	(5)	(3)	(13)	(3)	(2)	(1)	(6)
<b>2018 Annuitants</b>	<b>46,880</b>	<b>50,664</b>	<b>4,965</b>	<b>102,509</b>	<b>33,385</b>	<b>5,436</b>	<b>11,925</b>	<b>50,746</b>
<b>Ratio Actives to Annuitants</b>	<b>0.04</b>	<b>2.41</b>	<b>7.39</b>	<b>1.57</b>	<b>0.01</b>	<b>3.70</b>	<b>4.56</b>	<b>1.48</b>

Reconciliation of Active and Annuitant Data (Continued)				
	SERS			PSERS
	Plan 2	Plan 3	Total	Plan 2
<b>2017 Actives</b>	26,697	33,715	60,412	5,822
Transfers	(110)	4,495	4,385	0
Hires/Rehires	3,991	722	4,713	921
New Retirees	(632)	(697)	(1,329)	(40)
Deaths	(29)	(46)	(75)	(5)
Terminations	(2,486)	(3,408)	(5,894)	(518)
<b>2018 Actives</b>	<b>27,431</b>	<b>34,781</b>	<b>62,212</b>	<b>6,180</b>
<b>2017 Annuitants</b>	8,216	7,725	15,941	167
New Retirees	1,036	1,160	2,196	63
Annuitant Deaths	(138)	(102)	(240)	(1)
New Survivors	43	67	110	2
Other	0	0	0	0
<b>2018 Annuitants</b>	<b>9,157</b>	<b>8,850</b>	<b>18,007</b>	<b>231</b>
<b>Ratio Actives to Annuitants</b>	<b>3.00</b>	<b>3.93</b>	<b>3.45</b>	<b>26.75</b>

Reconciliation of Active and Annuitant Data (Continued)							
	LEOFF			WSPRS			All Systems
	Plan 1	Plan 2	Total	Plan 1	Plan 2	Total	
<b>2017 Actives</b>	40	17,694	17,734	464	546	1,010	317,677
Transfers	0	0	0	0	0	0	12,741
Hires/Rehires	0	1,345	1,345	11	75	86	25,470
New Retirees	(13)	(519)	(532)	(29)	0	(29)	(7,451)
Deaths	0	(13)	(13)	0	0	0	(401)
Terminations	(1)	(377)	(378)	(2)	(24)	(26)	(24,545)
<b>2018 Actives</b>	<b>26</b>	<b>18,130</b>	<b>18,156</b>	<b>444</b>	<b>597</b>	<b>1,041</b>	<b>323,491</b>
<b>2017 Annuitants</b>	7,228	4,851	12,079	1,113	0	1,113	177,685
New Retirees	13	610	623	34	0	34	11,621
Annuitant Deaths	(280)	(34)	(314)	(17)	0	(17)	(5,343)
New Survivors	115	17	132	7	0	7	1,206
Other	(2)	(8)	(10)	(1)	0	(1)	(30)
<b>2018 Annuitants</b>	<b>7,074</b>	<b>5,436</b>	<b>12,510</b>	<b>1,136</b>	<b>0</b>	<b>1,136</b>	<b>185,139</b>
<b>Ratio Actives to Annuitants</b>	<b>0.00</b>	<b>3.34</b>	<b>1.45</b>	<b>0.39</b>	<b>N/A</b>	<b>0.92</b>	<b>1.75</b>

## Summary of Plan Participants

Summary of Plan Participants								
PERS	2018				2017			
	Plan 1	Plan 2	Plan 3	Total	Plan 1	Plan 2	Plan 3	Total
<b>Active Members</b>								
Number	2,011	122,165	36,707	160,883	2,597	121,934	34,943	159,474
Total Salaries ( <i>Dollars in Millions</i> )	\$131	\$8,252	\$2,278	\$10,661	\$163	\$7,926	\$2,090	\$10,179
Average Age	65.9	47.8	43.3	47.0	65.1	47.9	43.3	47.2
Average Service	26.0	12.1	8.2	11.4	25.7	12.1	8.4	11.5
Average Salary	\$65,269	\$67,547	\$62,058	\$66,266	\$62,610	\$65,002	\$59,809	\$63,825
<b>Terminated Members</b>								
Vested	515	28,232	5,914	34,661	660	27,796	5,598	34,054
Non-Vested <sup>1</sup>	2,782	110,579	0	113,361	3,018	107,483	0	110,501
<b>Total Terminated</b>	<b>3,297</b>	<b>138,811</b>	<b>5,914</b>	<b>148,022</b>	<b>3,678</b>	<b>135,279</b>	<b>5,598</b>	<b>144,555</b>
<b>Annuitants</b>								
Service Retired <sup>2</sup>	40,601	45,520	4,597	90,718	41,709	41,629	3,919	87,257
Disability Retired	812	1,900	89	2,801	867	1,917	89	2,873
Survivors	5,467	3,244	279	8,990	5,535	2,991	254	8,780
<b>Total Annuitants</b>	<b>46,880</b>	<b>50,664</b>	<b>4,965</b>	<b>102,509</b>	<b>48,111</b>	<b>46,537</b>	<b>4,262</b>	<b>98,910</b>
Avg Monthly Benefit, All Annuitants <sup>3</sup>	\$2,091	\$1,676	\$942	\$1,830	\$2,048	\$1,592	\$890	\$1,783
Number of New Service Retirees	726	4,804	724	6,254	819	4,481	591	5,891
Avg Monthly Benefit, New Service Retirees <sup>3</sup>	\$2,390	\$2,112	\$1,146	\$2,032	\$2,390	\$2,113	\$1,001	\$2,040

<sup>1</sup> Members who terminated without a vested lifetime benefit but are eligible for a refund of their employee contributions that currently reside in the trust.

<sup>2</sup> Includes retirements from active and terminated with vested status.

<sup>3</sup> Plan 3 benefit amounts represent Defined Benefit portion only.

## Participant Data

## 2018 Actuarial Valuation

Summary of Plan Participants (Continued)								
TRS	2018				2017			
	Plan 1	Plan 2	Plan 3	Total	Plan 1	Plan 2	Plan 3	Total
<b>Active Members</b>								
Number	491	20,096	54,432	75,019	698	18,747	53,780	73,225
Total Salaries (Dollars in Millions)	\$45	\$1,407	\$4,473	\$5,924	\$61	\$1,244	\$4,196	\$5,501
Average Age	67.1	41.6	46.2	45.1	66.1	41.7	46.2	45.2
Average Service	32.9	7.6	14.1	12.5	32.3	7.7	14.1	12.6
Average Salary	\$91,688	\$69,990	\$82,168	\$78,968	\$87,446	\$66,374	\$78,023	\$75,130
<b>Terminated Members</b>								
Vested	152	2,729	9,080	11,961	187	2,612	8,914	11,713
Non-Vested <sup>1</sup>	277	6,729	0	7,006	311	6,300	0	6,611
<b>Total Terminated</b>	<b>429</b>	<b>9,458</b>	<b>9,080</b>	<b>18,967</b>	<b>498</b>	<b>8,912</b>	<b>8,914</b>	<b>18,324</b>
<b>Annuitants</b>								
Service Retired <sup>2</sup>	30,063	5,130	11,342	46,535	30,776	4,778	9,748	45,302
Disability Retired	484	82	94	660	509	82	86	677
Survivors	2,838	224	489	3,551	2,866	200	430	3,496
<b>Total Annuitants</b>	<b>33,385</b>	<b>5,436</b>	<b>11,925</b>	<b>50,746</b>	<b>34,151</b>	<b>5,060</b>	<b>10,264</b>	<b>49,475</b>
Avg Monthly Benefit, All Annuitants <sup>3</sup>	\$2,203	\$2,002	\$1,200	\$1,946	\$2,178	\$1,924	\$1,139	\$1,936
Number of New Service Retirees	247	420	1,653	2,320	302	418	1,406	2,126
Avg Monthly Benefit, New Service Retirees <sup>3</sup>	\$3,109	\$2,395	\$1,455	\$1,801	\$3,223	\$2,365	\$1,380	\$1,835

<sup>1</sup> Members who terminated without a vested lifetime benefit but are eligible for a refund of their employee contributions that currently reside in the trust.

<sup>2</sup> Includes retirements from active and terminated with vested status.

<sup>3</sup> Plan 3 benefit amounts represent Defined Benefit portion only.

Summary of Plan Participants (Continued)						
SERS	2018			2017		
	Plan 2	Plan 3	Total	Plan 2	Plan 3	Total
<b>Active Members</b>						
Number	27,431	34,781	62,212	26,697	33,715	60,412
Total Salaries (Dollars in Millions)	\$960	\$1,219	\$2,179	\$885	\$1,127	\$2,012
Average Age	49.6	49.2	49.4	49.8	49.5	49.6
Average Service	8.9	9.6	9.3	9.1	9.9	9.5
Average Salary	\$34,994	\$35,037	\$35,018	\$33,153	\$33,436	\$33,311
<b>Terminated Members</b>						
Vested	6,080	8,753	14,833	5,914	8,403	14,317
Non-Vested <sup>1</sup>	15,260	0	15,260	13,740	0	13,740
<b>Total Terminated</b>	<b>21,340</b>	<b>8,753</b>	<b>30,093</b>	<b>19,654</b>	<b>8,403</b>	<b>28,057</b>
<b>Annuitants</b>						
Service Retired <sup>2</sup>	8,471	8,423	16,894	7,566	7,356	14,922
Disability Retired	265	92	357	262	92	354
Survivors	421	335	756	388	277	665
<b>Total Annuitants</b>	<b>9,157</b>	<b>8,850</b>	<b>18,007</b>	<b>8,216</b>	<b>7,725</b>	<b>15,941</b>
Avg Monthly Benefit, All Annuitants <sup>3</sup>	\$905	\$501	\$707	\$879	\$480	\$686
Number of New Service Retirees	1,020	1,139	2,159	911	1,033	1,944
Avg Monthly Benefit, New Service Retirees <sup>3</sup>	\$973	\$581	\$766	\$978	\$537	\$744

<sup>1</sup> Members who terminated without a vested lifetime benefit but are eligible for a refund of their employee contributions that currently reside in the trust.

<sup>2</sup> Includes retirements from active and terminated with vested status.

<sup>3</sup> Plan 3 benefit amounts represent Defined Benefit portion only.

## Participant Data

## 2018 Actuarial Valuation

Summary of Plan Participants (Continued)				
PSERS	2018		2017	
	Plan 2		Plan 2	
<b>Active Members</b>				
Number	6,180		5,822	
Total Salaries ( <i>Dollars in Millions</i> )	\$399		\$362	
Average Age	40.0		40.1	
Average Service	6.2		6.0	
Average Salary	\$64,619		\$62,247	
<b>Terminated Members</b>				
Vested	545		468	
Non-Vested*	2,472		2,240	
<b>Total Terminated</b>	<b>3,017</b>		<b>2,708</b>	
<b>Annuitants</b>				
Service Retired**	207		148	
Disability Retired	16		13	
Survivors	8		6	
<b>Total Annuitants</b>	<b>231</b>		<b>167</b>	
Avg Monthly Benefit, All Annuitants	\$820		\$745	
Number of New Service Retirees	59		54	
Avg Monthly Benefit, New Service Retirees	\$1,012		\$1,063	

\*Members who terminated without a vested lifetime benefit but are eligible for a refund of their employee contributions that currently reside in the trust.

\*\*Includes retirements from active and terminated with vested status.

Summary of Plan Participants (Continued)						
LEOFF	2018			2017		
	Plan 1	Plan 2	Total	Plan 1	Plan 2	Total
<b>Active Members</b>						
Number	26	18,130	18,156	40	17,694	17,734
Total Salaries ( <i>Dollars in Millions</i> )	\$3	\$1,982	\$1,985	\$5	\$1,879	\$1,883
Average Age	66.9	43.1	43.1	65.8	43.2	43.3
Average Service	42.3	13.9	13.9	41.1	14.2	14.3
Average Salary	\$108,832	\$109,319	\$109,318	\$114,135	\$106,169	\$106,187
<b>Terminated Members</b>						
Vested	1	934	935	0	863	863
Non-Vested <sup>1</sup>	29	2,055	2,084	29	1,917	1,946
<b>Total Terminated</b>	<b>30</b>	<b>2,989</b>	<b>3,019</b>	<b>29</b>	<b>2,780</b>	<b>2,809</b>
<b>Annuitants</b>						
Service Retired <sup>2</sup>	2,400	4,733	7,133	2,462	4,200	6,662
Disability Retired	3,023	446	3,469	3,128	409	3,537
Survivors	1,651	257	1,908	1,638	242	1,880
<b>Total Annuitants</b>	<b>7,074</b>	<b>5,436</b>	<b>12,510</b>	<b>7,228</b>	<b>4,851</b>	<b>12,079</b>
Avg Monthly Benefit, All Annuitants	\$4,342	\$4,070	\$4,224	\$4,181	\$3,894	\$4,066
Number of New Service Retirees <sup>3</sup>	13	575	588	24	572	596
Avg Monthly Benefit, New Service Retirees <sup>3</sup>	\$9,177	\$4,896	\$4,991	\$8,455	\$4,798	\$4,945

<sup>1</sup>Members who terminated without a vested lifetime benefit but are eligible for a refund of their employee contributions that currently reside in the trust.

<sup>2</sup>Includes retirements from active and terminated with vested status.

<sup>3</sup>Includes retirees with disabilities for Plan 1 only.

Summary of Plan Participants (Continued)						
WSPRS	2018			2017		
	Plan 1	Plan 2	Total	Plan 1	Plan 2	Total
<b>Active Members</b>						
Number	444	597	1,041	464	546	1,010
Total Salaries ( <i>Dollars in Millions</i> )	\$52	\$55	\$107	\$48	\$45	\$93
Average Age	48.8	33.6	40.1	48.2	33.7	40.4
Average Service	22.0	7.4	13.6	21.4	7.3	13.8
Average Salary	\$116,625	\$92,066	\$102,541	\$102,624	\$82,863	\$91,941
<b>Terminated Members</b>						
Vested	71	34	105	73	31	104
Non-Vested <sup>1</sup>	17	54	71	17	53	70
Disability Retired <sup>2</sup>	40	0	40	42	0	42
<b>Total Terminated</b>	<b>128</b>	<b>88</b>	<b>216</b>	<b>132</b>	<b>84</b>	<b>216</b>
<b>Annuitants</b>						
Service Retired <sup>3</sup>	961	0	961	918	0	918
Survivors	175	0	175	160	0	160
<b>Total Annuitants</b>	<b>1,136</b>	<b>0</b>	<b>1,136</b>	<b>1,113</b>	<b>0</b>	<b>1,113</b>
Avg Monthly Benefit, All Annuitants	\$4,414	\$0	\$4,414	\$4,287	\$0	\$4,287
Number of New Service Retirees	34	0	34	37	0	37
Avg Monthly Benefit, New Service Retirees	\$4,987	\$0	\$4,987	\$4,389	\$0	\$4,389

<sup>1</sup> Members who terminated without a vested lifetime benefit but are eligible for a refund of their employee contributions that currently reside in the trust.

<sup>2</sup> Benefits provided outside of pension funds.

<sup>3</sup> Includes retirements from active and terminated with vested status.