

ACTUARIAL LIABILITIES

Present Value of Fully Projected Benefits					
(Dollars in Millions)	PERS		TRS		SERS
	Plan 1	Plans 2/3	Plan 1	Plans 2/3	Plans 2/3
Active Members					
Retirement	\$313	\$33,222	\$98	\$16,874	\$4,896
Termination	0	4,053	0	3,693	839
Death	2	190	0	117	33
Disability	0	153	0	51	24
ROC¹ on Termination	0	618	0	81	75
ROC¹ on Death	4	214	1	39	20
Total Active	\$319	\$38,450	\$99	\$20,855	\$5,889
Inactive Members					
Terminated Vested	\$43	\$3,816	\$13	\$1,420	\$939
Terminated Non-Vested²	6	390	2	73	57
Service Retired³	9,986	19,624	7,497	6,183	2,774
Disability Retired	90	159	67	13	18
Survivors	773	663	415	130	78
TAP Annuities	0	244	0	582	152
Total Inactive	\$10,898	\$24,896	\$7,995	\$8,401	\$4,017
Laws of 2022	177	0	169	0	0
2021 Total	\$11,393	\$63,347	\$8,263	\$29,256	\$9,906
2019 Total	\$11,575	\$51,593	\$8,415	\$23,168	\$8,096

Note: Totals may not agree due to rounding.

¹ Return of Contributions.

² Members who terminated without a vested lifetime benefit but are eligible for a refund of their employee contributions with interest that currently reside in the trust.

³ Includes liability from individuals who are entitled to a portion of the primary member's benefit (legal order payees).

II. ACTUARIAL EXHIBITS

Present Value of Fully Projected Benefits <i>(Continued)</i>					
<i>(Dollars in Millions)</i>	PSERS	LEOFF		WSPRS	Total
	Plan 2	Plan 1	Plan 2	Plans 1/2	
Active Members					
Retirement	\$1,549	\$20	\$12,389	\$758	\$70,119
Termination	225	0	215	6	9,032
Death	6	0	133	4	485
Disability	14	0	650	1	892
ROC¹ on Termination	58	0	129	4	965
ROC¹ on Death	10	0	86	2	376
Total Active	\$1,862	\$20	\$13,601	\$774	\$81,869
Inactive Members					
Terminated Vested	\$72	\$0	\$390	\$22	\$6,714
Terminated Non-Vested²	26	0	22	1	578
Service Retired³	85	1,808	6,506	1,001	55,465
Disability Retired	2	1,465	357	4	2,174
Survivors	1	740	198	87	3,084
TAP Annuities	0	0	0	0	978
Total Inactive	\$187	\$4,013	\$7,473	\$1,115	\$68,995
Laws of 2022⁴	11	177	0	0	533
2021 Total	\$2,060	\$4,209	\$21,075	\$1,889	\$151,397
2019 Total	\$1,391	\$4,077	\$16,096	\$1,589	\$126,001

Note: Totals may not agree due to rounding.

¹ Return of Contributions.

² Members who terminated without a vested lifetime benefit but are eligible for a refund of their employee contributions with interest that currently reside in the trust.

³ Includes liability from individuals who are entitled to a portion of the primary member's benefit (legal order payees).

⁴ LEOFF 2 liability increases from SHB 1701 included in the Active Members and Service Retired line items. We estimate a total liability increase of approximately \$1,250 million measured at June 30, 2021.

II. ACTUARIAL EXHIBITS

Entry Age Normal Accrued Liability ¹					
(Dollars in Millions)	PERS		TRS		SERS
	Plan 1	Plans 2/3	Plan 1	Plans 2/3	Plans 2/3
Active Members					
Retirement	\$292	\$24,880	\$93	\$10,801	\$3,515
Termination	(4)	2,193	(1)	2,042	406
Death	2	135	0	75	23
Disability	0	69	0	18	10
ROC ² on Termination	(0)	(263)	(0)	(40)	(23)
ROC ² on Death	3	129	1	15	11
Total Active	\$293	\$27,143	\$93	\$12,912	\$3,941
Inactive Members					
Terminated Vested	\$43	\$3,816	\$13	\$1,420	\$939
Terminated Non-Vested ³	6	390	2	73	57
Service Retired ⁴	9,986	19,624	7,497	6,183	2,774
Disability Retired	90	159	67	13	18
Survivors	773	663	415	130	78
TAP Annuities	0	244	0	582	152
Total Inactive	\$10,898	\$24,896	\$7,995	\$8,401	\$4,017
Laws of 2022	177	0	169	0	0
2021 Total	\$11,368	\$52,039	\$8,257	\$21,312	\$7,958
2019 Total	\$11,535	\$42,600	\$8,405	\$16,883	\$6,474

Note: Totals may not agree due to rounding.

¹ Calculated using the EAN cost method. This method is used in the funded ratio calculation and is not used to determine contribution requirements.

² Return of Contributions.

³ Members who terminated without a vested lifetime benefit but are eligible for a refund of their employee contributions with interest that currently reside in the trust.

⁴ Includes liability from individuals who are entitled to a portion of the primary member's benefit (legal order payees).

Entry Age Normal Accrued Liability¹ (Continued)					
<i>(Dollars in Millions)</i>	PSERS	LEOFF		WSPRS	Total
	Plan 2	Plan 1	Plan 2	Plans 1/2	
Active Members					
Retirement	\$765	\$19	\$7,940	\$501	\$48,806
Termination	84	0	36	2	4,759
Death	3	0	18	1	257
Disability	5	0	336	0	437
ROC² on Termination	(9)	0	(32)	(1)	(368)
ROC² on Death	4	0	47	1	211
Total Active	\$852	\$19	\$8,346	\$504	\$54,103
Inactive Members					
Terminated Vested	\$72	\$0	\$390	\$22	\$6,714
Terminated Non-Vested³	26	0	22	1	578
Service Retired⁴	85	1,808	6,506	1,001	55,465
Disability Retired	2	1,465	357	4	2,174
Survivors	1	740	198	87	3,084
Tap Annuities	0	0	0	0	978
Total Inactive	\$187	\$4,013	\$7,473	\$1,115	\$68,995
Laws of 2022⁵	1	177	0	0	523
2021 Total	\$1,039	\$4,209	\$15,819	\$1,620	\$123,621
2019 Total	\$685	\$4,077	\$11,992	\$1,370	\$104,020

Note: Totals may not agree due to rounding.

¹ Calculated using the EAN cost method. This method is used in the funded ratio calculation and is not used to determine contribution requirements.

² Return of Contributions.

³ Members who terminated without a vested lifetime benefit but are eligible for a refund of their employee contributions with interest that currently reside in the trust.

⁴ Includes liability from individuals who are entitled to a portion of the primary member's benefit (legal order payees).

⁵ LEOFF 2 accrued liability increases from SHB 1701 included in the Active Members and Service Retired line items. We estimate a total accrued liability increase of approximately \$920 million measured at June 30, 2021.

Some line items in the EAN accrued liability tables are negative. This is a result of how these benefits are accrued, over a member's working career, under the EAN actuarial cost method. The accrued liability for a given benefit provision is the difference between (1) today's value of all future benefits for that benefit definition and (2) how much of those future benefits are assumed to be accrued over the rest of the member's career. Item (1) is essentially split into annual "pieces" that are spread evenly across a career from first hire date to last assumed exit. Item (2) is how many more "pieces" they have left to accrue. For benefits like "Return Of Contributions (ROC) on Termination", while we assume members that are eligible for retirement will no longer elect an ROC benefit when they exit the system, they are still accruing the level piece of item (2) each year until they retire. So in this instance, item (1) is zero but item (2) is positive. This means we get a negative number when subtracting item (2) from item (1).

Please note GASB mandates this methodology for the accrued liability calculation in financial reporting. We use the same methods in this report – a funding valuation – for easier comparison with financial reporting results. An alternative method is to calculate the accrued liability through the date last eligible for the benefit instead of the end of career. This would eliminate the negative accrued liability components seen above.



II. ACTUARIAL EXHIBITS

We report the present and future value of benefit payments by year and by plan on our website. We also show how the present value of these benefit payments varies by interest rate assumptions. For more information or to view projected benefit payments, please visit our Interactive Reports webpage.