

Funded Status

In our actuarial valuation report, we calculate a plan's funded status by comparing (a) the plan's current assets, determined under an asset valuation method, to (b) the actuarial accrued liability of its members calculated under an actuarial cost method. Funded status can vary significantly from plan to plan, depending on the purpose of the measurement and the assumptions and methods used to determine the funded status.

Based on the purpose of the measurement, actuaries can select from several acceptable actuarial cost methods when measuring a plan's funded status. The cost methods vary in the manner they allocate benefits to past and future time periods. Generally speaking, benefits allocated to past service are considered accrued (or earned). Please see the [Glossary](#) on our website for an explanation of the actuarial cost methods we use in this actuarial valuation.

Consistent with financial reporting under Governmental Accounting Standards Board (GASB) requirements, we report funded status using the EAN actuarial cost method. However, the funded status measures we share in this report may still vary from those presented in the Department of Retirement Systems (DRS) Comprehensive Annual Financial Report. These differences occur because the assumptions and methods that apply for determining contribution requirements (under a funding valuation) may not apply for financial reporting under GASB accounting standards (an accounting valuation). Put another way, these measurements still represent distinct measurements for specific purposes and the results may vary between the two reports.

To determine the present value (today's value) of accrued benefits we discount future benefits to the valuation date using the valuation interest rate. This rate is intended to be consistent with the long-term expected return under the plan's funding policy. For all plans with the exception of the LEOFF Plan 2, the valuation interest rate is prescribed by the PFC and is subject to revision by the Legislature. For LEOFF Plan 2, the valuation interest rate is prescribed by the LEOFF Plan 2 Retirement Board. (Note: This discount rate may vary from the rate used for financial reporting under GASB accounting standards).

In addition to the valuation interest rate, we use the same long-term assumptions to develop the funded status measure in this report as used for determining the contribution requirements of the plan. We don't expect the assumptions to match actual experience over short-term periods. However, we do expect these assumptions to reasonably approximate average annual experience over long-term periods. This measure of funded status is consistent with the state's current funding policy and financing plan for future retirement benefits.

For reporting funded status and calculating contribution requirements, we also use an asset valuation method to determine the Actuarial Value of Assets (AVA). This asset valuation method smooths the inherent volatility in the Market Value of Assets (MVA) by deferring a portion of annual investment gains or losses for a certain number of years. Investment gains and losses occur when the annual return on investments varies from the long-term assumed rate. To determine the 2017 investment gains or losses, we used an investment return assumption of 7.70 percent (7.50 percent for the LEOFF Plan 2). The AVA provides a more stable measure of the plan's assets on an ongoing basis.

With this background in mind, we display the funded status on an "actuarial value" basis for each plan in the following table. For the actuarial value basis, we use the assumed long-term rate of return and AVA consistent with the plan's funding policy.

It's also reasonable and acceptable to report funded status using other assumptions and methods. The resulting funded status will change with the use of assumptions and methods that vary from what we present in this report. Please visit the [Interactive Reports](#) page on our website for funded status measures that vary by interest rate assumptions and asset valuation methods.

II. ACTUARIAL EXHIBITS

Funded Status on an Actuarial Value Basis*					
(Dollars in Millions)	PERS		TRS		SERS
	Plan 1	Plans 2/3	Plan 1	Plans 2/3	Plan 2/3
Accrued Liability	\$12,341	\$37,166	\$8,918	\$13,095	\$5,242
Valuation Assets	\$7,042	\$33,191	\$5,371	\$11,885	\$4,613
Unfunded Liability	\$5,299	\$3,975	\$3,547	\$1,210	\$629
Funded Ratio					
2017	57%	89%	60%	91%	88%
2016	56%	87%	61%	89%	87%
2015	58%	88%	64%	92%	89%
2014	61%	90%	69%	94%	91%

Note: Totals may not agree due to rounding.

*Liabilities valued using the EAN cost method at an interest rate of 7.50%. All assets have been valued under the actuarial asset method.

Funded Status on an Actuarial Value Basis*						
(Continued)						
(Dollars in Millions)	PSERS		LEOFF		WSPRS	Total
	Plan 2	Plan 1	Plan 2	Plans 1/2		
Accrued Liability	\$506	\$4,121	\$10,160	\$1,245		\$92,792
Valuation Assets	\$480	\$5,403	\$11,037	\$1,144		\$80,168
Unfunded Liability	\$25	(\$1,282)	(\$878)	\$100		\$12,624
Funded Ratio						
2017	95%	131%	109%	92%		86%
2016	94%	126%	105%	91%		84%
2015	95%	125%	105%	98%		86%
2014	96%	127%	107%	100%		87%

Note: Totals may not agree due to rounding.

*Liabilities valued using the EAN cost method at an interest rate of 7.50% (7.40% for LEOFF 2). All assets have been valued under the actuarial asset method.

Generally speaking, and under current funding policy, when a plan is less/more than 100 percent funded, we expect higher/lower contribution requirements in the near term to return the plan to a 100 percent funded status over time. A plan with a funded status above 100 percent will require future contributions if the plan has not yet accumulated sufficient assets to pay both the expected cost of benefits that have been earned today and the expected cost of benefits that will be earned by current members in the future. As of this valuation date, and under the data, assumptions and methods used for this actuarial valuation, only LEOFF Plan 1 has sufficient assets to cease ongoing contributions.

The funded status measures presented in this report are not sufficient to determine whether a plan has enough assets to terminate or settle the plan obligations.