

FAQs: Assumed Rate

1. What is the “assumed rate”?

The assumed rate is the rate of investment return (including inflation) that the PERS Fund’s regular account is expected to earn over the long term. Oregon Administrative Rule 459-007-0001(2) states that the assumed rate “means the actuarial assumed rate of return on investments as adopted by the Board for the most recent actuarial valuation.”

2. How is the assumed rate determined?

The PERS Board decides on the assumed rate based on:

- The long-term projection of investment returns based on the asset allocations of the Oregon Investment Council and the related capital market expectations, and
- Independent analysis by PERS’ actuary, Milliman, of the projected returns from that asset allocation, over a long-term investment horizon.

3. What is the current assumed rate?

The current assumed rate is 7.75% and has been in effect since January 1, 2014.

4. When is the assumed rate set?

The assumed rate is reviewed and adopted by the PERS Board every two years as part of the system’s Experience Study.

5. What happens if the assumed rate changes?

The assumed rate is used when crediting Tier One regular accounts with annual earnings. If the rate changes, annual earnings would be credited based on that new rate.

The assumed rate is also used to credit pro-rated earnings to a Tier One member’s regular account upon retirement or a withdrawal, so those earnings would be pro-rated at the new assumed rate.

When a Tier One or Tier Two member retires, his/her account is annuitized based on the assumed rate to calculate the member’s retirement benefit. Changing the assumed rate means using new actuarial factors, and that would change the amount of the benefit. This change would have the biggest effect on Money Match and Formula Plus Annuity benefit calculations.

The assumed rate also is used to discount system liabilities when setting employer rates. If the earnings assumption is lowered, the amount that must be contributed by employers increases to cover the reduced earnings projection. If the assumed rate is increased, the amount that must be contributed by employers decreases due to the projected increase in earnings.

6. What is the earliest the assumed rate could change?

The PERS Board is scheduled to decide on the assumed rate at its July 31, 2015 meeting.

Oregon Administrative Rule (459-007-0007) contains the effective transaction dates for the assumed rate:

- 1) Latest year-to-date calculations (retirements, disability retirements, withdrawals, death benefits, and lump-sum installment payments): The first of the month following the Board's adoption of a change in the assumed rate.
- 2) Updated AEFs: January 1 of the year following a change in the assumed rate, as provided by statute.
- 3) Annual earnings crediting to Tier One member accounts: December 31 of the crediting year.

7. What is the connection between the assumed rate and actuarial equivalency factors (AEFs)?

When retirement benefits are calculated using an account based method such as Money Match and Formula Plus Annuity, or adjusted for benefit payment options, AEFs are used to determine the benefit amount. AEFs are based on two primary variables:

- 1) expected member longevity (how long members are expected to live) and
- 2) the assumed earnings rate (how much the member's account balance will earn during retirement).

When either the mortality or earnings rate assumptions are changed by the Board, the AEFs must be updated. The recalculated AEFs are then used to calculate the benefits of future retirees. The actuary will report recommended changes to the AEFs, if necessary, to the Board in November 2015. Update AEFs would become effective January 1, 2016, as required in statute.

8. If I am receiving installment payments of my account because I chose a lump- sum option, will I be affected by a change to the assumed rate?

Yes, if you are a Tier One member. Earnings are credited to the remaining balance of your account and distributed with your last installment. A change to the assumed rate will prospectively change the earnings rate applied to your remaining account balance.

Note that monthly benefit payment amounts for members who retired before the assumed rate changes will not be affected, as those benefits were set using the actuarial factors in place when they retired.

9. Does the assumed rate affect a retirement benefit if the member's benefit is based on the Full Formula method?

The basic Full Formula benefit is based on final average salary, years of service, and a statutory factor. None of those elements are affected by a change in the assumed rate. However, if the member elects a benefit option, actuarial equivalency factors are applied and a change to the assumed rate would affect those factors (see Question 7).

10. Are employer contribution rates affected if the assumed rate is changed?

Yes. Employer contribution rates are based on the balance in the employer's reserve earning the assumed rate in the future; if that assumed rate changes, employer contribution rates will change to reflect the different future earnings assumption. The employer contribution rate changes would become effective with the next rate setting valuation following a change in the assumed rate (e.g., the 2017-19 biennium).

11. Can you show an example of the impact of a change in the assumed rate?

The examples below shows how an assumed rate of 7.5% or 7.25%, instead of the current 7.75%, would affect a future retiree under the Money Match formula.

Assumptions used in example:

- Tier One general service member

- Age 59 1/2
- \$135,000 accumulated Tier One member contribution account balance as of June 30, 2015.

Example: Assumed rate of 7.50% instead of 7.75%				
Retirement Date	July 1, 2015	December 1, 2015	January 1, 2016	March 1, 2016
Assumed Rate	7.75%	7.75%	7.5%	7.5%
Starting Benefit	\$2,041	\$2,117	\$2,088	\$2,119

The example above shows that a change in the assumed rate from 7.75% to 7.5% would require delaying retirement for about three months to reach the initial benefit level if the annuitization factors changed January 1, 2016.

Example: Assumed rate of 7.25% instead of 7.75%				
Retirement Date	July 1, 2015	December 1, 2015	January 1, 2016	June 1, 2016
Assumed Rate	7.75%	7.75%	7.25%	7.25%
Starting Benefit	\$2,041	\$2,117	\$2,043	\$2,118

The example above shows that a change in the assumed rate from 7.75% to 7.25% would require delaying retirement for about six months to reach the initial benefit level if the annuitization factors changed January 1, 2016.