

The Impact Returns Have on How Much You Should Save



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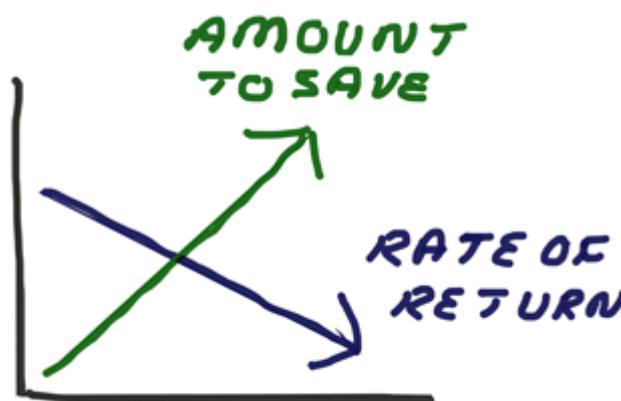
One of the fuzziest numbers in retirement planning is how much a person should save. Put another way, how much does an individual need to set aside each year to fund retirement expenses? It's a function of projected expenditures, sources of other income (e.g., Social Security, inheritance, etc.) and expected investment returns. Though they are all interrelated, the link between covering projected expenditures and investment returns is not one-to-one.

I'll start with the return side because this is where the math gets interesting, and disconcerting. An analysis from **AQR Capital Management** found that even small changes in projected investment returns make a big difference in the amount to be saved. Altering the expected real (inflation-adjusted) annualized rate of return from 5.5% to 3.5% for a portfolio split between 60% in stocks and 40% in bonds increases the required savings rate from 8% to 15%.

Yes, you read that right: A two-percentage-point decrease in expected returns nearly doubles the amount you should save as a percentage of your salary.

This works in the other direction too. Increasing the projected return by two percentage points from 4.5% to 6.5% cuts the required savings rate from 11% to 6%. Since the devil is always in the details, I'll share a few of the assumptions used by AQR. The rates of return were adjusted to reflect inflation, which means they would be higher on an absolute basis—and most people default to viewing returns on an absolute basis. The savings rates included an employer match of 3% of a worker's salary. A target income replacement rate of 75% of salary was used, with 30% coming from Social Security and other sources. The investing time span was 40 years. Wages grew 2% annually on an inflation-adjusted basis over the 40-year period. For those of you closer to retirement, shorter time periods can be easily calculated to show the impact.

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The U.S. financial markets will be closed on Monday in observance of Labor Day.

September has historically been the worst month of the year for large-cap stocks. The S&P 500 index has only realized a September gain during 43% of all years since the start of 1946. The average September monthly loss has been 0.66%. To put these numbers into perspective, on an average calendar month, the large-cap index has gained 0.66% and risen 59% of the time.

Just two members of the S&P 500 are scheduled to report earnings: Hewlett Packard Enterprise Co. (**HPE**) on Wednesday and Kroger Co. (**KR**) on Friday.

The week's first financial report will be the Institute for Supply Management's (ISM) August non-manufacturing index, released on Tuesday. Wednesday will feature the Labor Department's July Job Opening and Labor Turnover Survey (JOLTS) and the Federal Reserve's periodic Beige Book.

Two Federal Reserve officials will make public appearances: San Francisco president John Williams on Tuesday and Boston president Eric Rosengren on Friday.

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