

HELPING YOU MAKE  
**RetireSMART<sup>SM</sup>**  
MOVES



## RetireSMART<sup>SM</sup>

The information you need to decide for yourself

*MassMutual's participant website provides you with personalized retirement savings and benefit projections, account access, and investment information. The following guide can help you navigate our interactive calculators to help determine the savings approach that's right for you and how you are progressing toward your retirement goals.*

- ▶ Learn how much you can save in the first year, and how even small contributions can add up
- ▶ Find out how contributing to your retirement plan can result in a tax savings
- ▶ See how your savings and retirement benefits work to replace income after you retire, and how the value of your benefit may grow as you near retirement



We'll help you get there.®



# About YOU

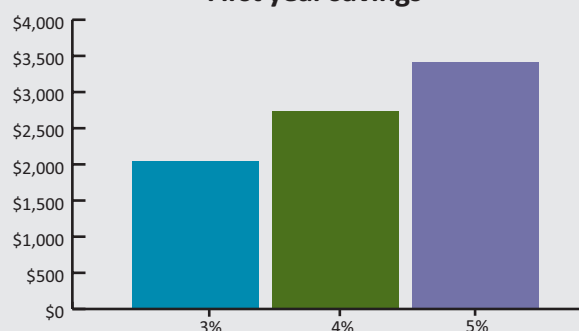
*To get started, simply enter key pieces of information to benefit from our calculations. These items can be changed at any time during your online session.*

- ▶ Birth date
- ▶ Annual salary
- ▶ Annual salary increase
- ▶ Retirement age<sup>1</sup>
- ▶ Years in retirement
- ▶ Retirement income needed<sup>1</sup>
- ▶ Pre-tax contributions<sup>1</sup>
- ▶ Matching contributions (If applicable)
- ▶ Matching contributions limit
- ▶ Rate of return<sup>1</sup>
- ▶ Inflation rate
- ▶ Estimated monthly Social Security benefit
- ▶ Estimated monthly Defined Benefit amount

## The first year

This calculator will illustrate how much you can save on taxes and put away for retirement in just one year by starting now, and how your tax savings grows as you increase your contribution rate. Retirement may seem a long way off, but with tax savings and employer contributions (if applicable), small monthly amounts can make a dramatic difference.

**First year savings**



Contribution level	3% ▼	4% ▼	5% ▼
Before tax contributions	\$1,363	\$1,817	\$2,272
Matching contributions	\$682	\$909	\$1,136
First year savings	\$2,045	\$2,726	\$3,408
Estimated tax savings <sup>2</sup>	\$204	\$273	\$341

<sup>1</sup>Calculators provide hypothetical illustrations based upon the data you provide. Your results will likely vary. Calculators are for informational use only and can help in your planning. Change the data to see the potential effect on your situation.

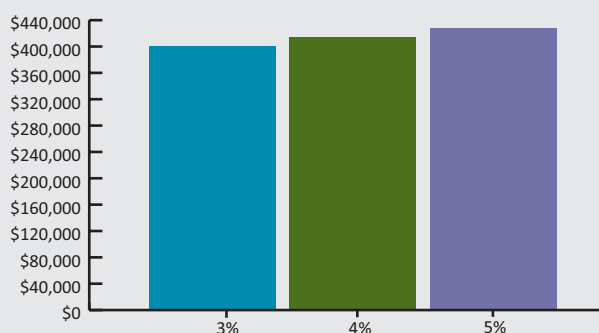
The information contained in this document is not intended or written as specific legal or tax advice and may not be relied on for purposes of avoiding any federal tax penalties. Neither MassMutual nor any of its employees or representatives are authorized to give legal or tax advice. You must rely on the advice of your own independent tax counsel.

<sup>2</sup>The "estimated tax savings" is the difference between the amount of estimated federal income taxes you may be required to pay if you do not make retirement savings contributions and the amount of estimated federal income taxes you may be required to pay if you do contribute to the retirement plan. The appropriate federal income tax rate that is used for this purpose is based upon your income level (annual salary) and marital status. This estimate is used for illustrative purposes, and does not take into account any state income tax that you may pay. Please consult your tax adviser about any questions you may have regarding your actual tax liability.

## Small amounts add up

Use this calculator to see how a small difference in your contribution now can make a large difference in your retirement plan account balance at retirement. You can experiment with higher contribution rates and watch the impact on your total account balance. With so much competition for your pay, contributing a little more to your retirement plan account isn't easy. However, a decision to increase your contribution rate now can have a positive impact on your future.

**Total account balance at age 65**

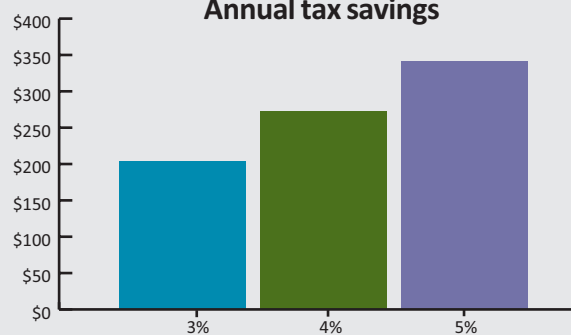


Contribution level	3% <input type="button" value="v"/>	4% <input type="button" value="v"/>	5% <input type="button" value="v"/>
Balance	\$400,221	\$413,938	\$427,654
Your contributions	\$386,505	\$395,649	\$404,794
Matching contributions	\$13,716	\$18,288	\$22,861
Monthly annuity <sup>3</sup>	\$2,617	\$2,706	\$2,796

## Effect on your paycheck

Would you like to know what effect your retirement savings contribution has on your paycheck? This may be the calculator for you. Your retirement savings contribution is not subject to immediate taxation. It is deducted from your paycheck before tax and invested. Of course, by contributing those amounts to your retirement plan, your take-home pay will be lowered, but remember, your annual taxable income is also lower, resulting in a tax savings too. You, therefore, benefit in two ways – you're contributing to a retirement plan and saving in taxes. Think of this "tax savings" as a reward for saving in a retirement plan. Please note: Your retirement plan may have a contribution limit below the amount you select in your calculation.

**Annual tax savings**



**See annual take home pay**

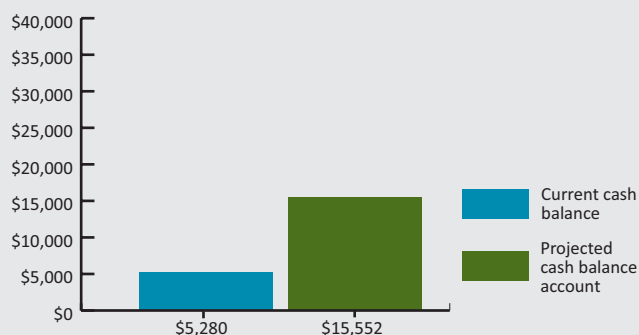
Contribution level	3% <input type="button" value="v"/>	4% <input type="button" value="v"/>	5% <input type="button" value="v"/>
Take home pay reduction	\$1,159	\$1,545	\$1,931
Estimated tax savings <sup>2</sup>	\$204	\$273	\$341
Total contribution	\$1,363	\$1,817	\$2,272
Payroll frequency	<input checked="" type="radio"/> Annual <input type="radio"/> Semiannual	<input type="radio"/> Monthly <input type="radio"/> Semimonthly	<input type="radio"/> Biweekly <input type="radio"/> Weekly

<sup>3</sup> Annuity rates change over time. Contact MassMutual or your plan administrator for exact annuity amount available to you at the time of your retirement. The information shown in this calculator is not an offer of an annuity at the rates shown

## The value of your retirement plan

This calculator compares your current cash balance account and your projected cash balance account. Your current cash balance is based on your employment history and your organization's pension plan provisions. Your projected cash balance account assumes you continue working full time until age 60. All projections are based on the plan's current benefit formula, your current average monthly earnings and the assumption that the interest crediting rate remains the same through retirement.

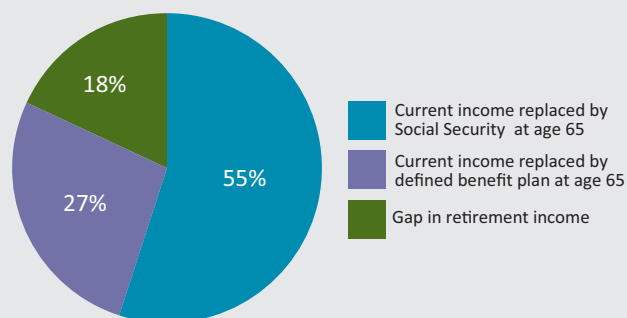
Value of benefit at age 65



## Income replacement

The Income Replacement Ratio calculator demonstrates how your retirement plan and Social Security can work toward replacing your current salary. Today's retirees tell us they need between 70-80% of their pre-retirement income to maintain their lifestyle through retirement. By changing your monthly goal amount, you can see the resulting gap or surplus in your retirement income.

Income Replacement Ratio



Current monthly salary	\$3,786
Monthly goal amount	\$3,029
Estimated monthly Social Security benefit	\$1,651
Estimated monthly cash balance account benefit*	\$809
Retirement income gap	\$569

\*at age 65