

Income Insights: Understanding Tax-Equivalent Yield

Income Insights is a series designed to quickly describe important income tax concepts for advisors and their clients.

Authors	Date	Topic
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Understanding Tax-Equivalent Yield

When comparing bonds, be sure to evaluate yields on a tax-equivalent basis to consider the impact of taxes on after-tax returns. Here we look at the tax-equivalent yield using a hypothetical scenario.

These married taxpayers—who file jointly—reside in Arizona and earn a combined \$450,000 per year. Their federal marginal tax rate is 32%, and they're subject to the [Net Investment Income surtax](#) of 3.8%. They also pay a state tax of 2.5%, with a combined federal and state marginal tax rate of 38.3%. For this example, we assume an in-state municipal bond yield of 3.28%.

The formula for calculating tax-equivalent yield is:

$$\text{tax-free bond yield} \div (1 - \text{marginal tax rate})$$

Below is how the tax-equivalent yield would be calculated for our hypothetical couple, comparing four types of bonds.

	IN-STATE MUNICIPAL BONDS	OUT-OF-STATE MUNICIPAL BONDS	U.S. TREASURY BONDS	CORPORATE BONDS
Subject to state or federal tax	Neither tax	State tax	Federal tax	State and federal tax
Calculation	$3.28/(1 - 0)$	$3.28/(1 - 0.025)$	$3.28/(1 - 0.358)$	$3.28/(1 - 0.383)$
Tax-equivalent yield	3.28%	3.36%	5.11%	5.32%

For this couple, a corporate bond must yield 5.32% to produce an after-tax yield equivalent to the in-state municipal bond yielding 3.28%. This hypothetical example highlights how taxes can affect investment returns and the importance of making informed decisions to maximize after-tax income.

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