

Carmel-Quintero Financial

Planning Your Financial Future

From Data Breaches to Ransomware: How to Avoid Becoming the Victim of a Cybercrime

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Each time you connect to the Internet, you risk becoming the victim of a cybercrime. It's the price we pay for living in a digital world — whether it's at home, at work, or on your smartphone.

According to the Identity Theft Resource Institute, the number of U.S. data breaches in 2016 increased by 40%. And as recently as May 2017, a widespread "ransomware" attack targeted personal computers across the globe. While software companies are continually developing strategies to combat the latest cybercrimes, there are some steps you can take to help protect yourself online.

The stronger, the better

It's a scary thought — most of us have a large amount of financial and personal information that's readily accessible through the Internet, in most cases protected by nothing more than a username and password.

Create a strong password by using a combination of lower- and upper-case letters, numbers, and symbols or by using a random phrase. Avoid using a password with your personal information such as your name and address. In addition, have a separate and unique password for each account or website that you use.

If you have trouble keeping track of all your password information or you want an extra level of password protection, consider using password management software. Password manager programs generate strong, unique passwords that you control through a single master password.

Follow the 3-2-1 rule

Backing up your online data is critical to avoid losing valuable information due to a cyber attack. If you have digital assets that you don't want to risk losing forever, you should back

them up regularly. This pertains to data stored on both personal computers and mobile devices.

When backing up data, a good rule to follow is the 3-2-1 rule. This rule helps reduce the risk that any one event — such as a computer hacker gaining access to your computer — will compromise your primary data and backups. In order to follow the 3-2-1 rule:

- Have at least three copies of your data (this means a minimum of the original plus two backups)
- Use at least two different formats (e.g., hard drive and cloud-based service)
- Ensure that at least one backup copy is stored in a separate location (e.g., safe-deposit box)

Stay one step ahead

Finally, the best way to avoid becoming the victim of a cybercrime is to stay one step ahead of the cybercriminals. Here are some extra precautions you can take before you go online:

Consider using two-step authentication.

Two-step authentication, which involves using a text or email code along with your password, provides another layer of protection for your sensitive data.

Keep an eye on your accounts. Notify your financial institution immediately if you see suspicious activity. Early notification not only can stop the cyber thief but may limit your financial liability.

Think twice before clicking. Beware of emails containing links or asking for personal information. Never click on a link in an email or text unless you know the sender and have a clear idea where the link will take you.

Be careful when you shop. When shopping online, look for the secure lock symbol in the address bar and the letters *https*: (as opposed to *http*:) in the URL. Avoid using public Wi-Fi networks for shopping, as they lack secure connections.

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Cartoon: College Time

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Managing Debt While Saving for Retirement



¹ *Employee Benefit Research Institute, 2017 Retirement Confidence Survey*

² *Employee Benefit Research Institute, 2016 Retirement Confidence Survey*

³ *Distributions from pre-tax accounts will be taxed at ordinary income tax rates. Early distributions from pre-tax accounts and nonqualified distributions of earnings from Roth accounts will be subject to ordinary income taxes and a 10% penalty tax, unless an exception applies. Employer contributions will always be placed in a pre-tax account, regardless of whether they match pre-tax or Roth employee contributions.*

It's a catch-22: You feel that you should focus on paying down debt, but you also want to save for retirement. It may be comforting to know you're not alone.

According to an Employee Benefit Research Institute survey, 18% of today's workers describe their debt level as a major problem, while 41% say it's a minor problem. And workers who say that debt is a problem are also more likely to feel stressed about their retirement savings prospects.¹ Perhaps it's no surprise, then, that the largest proportion (21%) of those who have taken a loan from their employer-sponsored retirement plans have done so to pay off debt.² Borrowing from your plan can have negative consequences on your retirement preparedness down the road. Loan limits and other restrictions generally apply as well.

The key in managing both debt repayment and retirement savings is to understand a few basic financial concepts that will help you develop a strategy to tackle both.

Compare potential rate of return with interest rate on debt

Probably the most common way to decide whether to pay off debt or to make investments is to consider whether you could earn a higher rate of return (after accounting for taxes) on your investments than the interest rate you pay on the debt. For example, say you have a credit card with a \$10,000 balance that carries an interest rate of 18%. By paying off that balance, you're effectively getting an 18% return on your money. That means your investments would generally need to earn a consistent, after-tax return greater than 18% to make saving for retirement preferable to paying off that debt. That's a tall order for even the most savvy professional investors.

And bear in mind that all investing involves risk; investment returns are anything but guaranteed. In general, the higher the rate of return, the greater the risk. If you make investments rather than pay off debt and your investments incur losses, you may still have debts to pay, but you won't have had the benefit of any gains. By contrast, the return that comes from eliminating high-interest-rate debt is a sure thing.

Are you eligible for an employer match?

If you have the opportunity to save for retirement via an employer-sponsored plan that matches a portion of your contributions, the debt-versus-savings decision can become even more complicated.

Let's say your company matches 50% of your contributions up to 6% of your salary. This means you're essentially earning a 50% return on that portion of your retirement account contributions. That's why it may make sense to save at least enough to get any employer match before focusing on debt.

And don't forget the potential tax benefits of retirement plan contributions. If you contribute pre-tax dollars to your plan account, you're immediately deferring anywhere from 10% to 39.6% in taxes, depending on your federal tax rate. If you're making after-tax Roth contributions, you're creating a source of tax-free retirement income.³

Consider the types of debt

Your decision can also be influenced by the type of debt you have. For example, if you itemize deductions on your federal tax return, the interest you pay on a mortgage is generally deductible — so even if you could pay off your mortgage, you may not want to. Let's say you're paying 6% on your mortgage and 18% on your credit card debt, and your employer matches 50% of your retirement account contributions. You might consider directing some of your available resources to paying off the credit card debt and some toward your retirement account in order to get the full company match, while continuing to pay the mortgage to receive the tax deduction for the interest.

Other considerations

There's another good reason to explore ways to address both debt repayment and retirement savings at once. Time is your best ally when saving for retirement. If you say to yourself, "I'll wait to start saving until my debts are completely paid off," you run the risk that you'll never get to that point, because your good intentions about paying off your debt may falter. Postponing saving also reduces the number of years you have left to save for retirement.

It might also be easier to address both goals if you can cut your interest payments by refinancing debt. For example, you might be able to consolidate multiple credit card payments by rolling them over to a new credit card or a debt consolidation loan that has a lower interest rate.

Bear in mind that even if you decide to focus on retirement savings, you should make sure that you're able to make at least the minimum monthly payments on your debt. Failure to do so can result in penalties and increased interest rates, which would defeat the overall purpose of your debt repayment/retirement savings strategy.

Examining the Taxpaying Population: Where Do You Fit In?



Sources for data: IRS Statistics of Income Bulletins, Spring 2017 and Summer 2017, Washington, D.C., irs.gov/statistics

What is adjusted gross income (AGI)?

Adjusted gross income, or AGI, is basically total income less adjustments for certain items, such as deductible contributions made to an IRA, alimony paid, and qualified student loan interest paid.

Every quarter, the Statistics of Income Division of the Internal Revenue Service (IRS) publishes financial statistics obtained from tax and information returns that have been filed with the federal government. Recently published reports reflect data gleaned from 2014 individual federal income tax returns. These reports offer a snapshot of how the U.S. population breaks down as taxpayers.

The big picture

For tax year 2014, U.S. taxpayers filed roughly 139.6 million individual income tax returns.¹ Total adjusted gross income reported on these tax returns was \$9.71 trillion, resulting in a total income tax of \$1.37 trillion. That works out to an overall average tax rate of 14.16% for all returns filed — the highest total average rate in the 10-year period represented by the statistical report.

If your 2014 AGI was \$38,173 or more, you were in the top 50% of all federal income tax filers based on AGI. This group accounted for 88.7% of all AGI reported and paid 97.3% of total federal income tax for the year.

A look at the top

How much AGI did it take to make the top 10% of all individual filers? Probably not as much as you might think. If your AGI was \$133,445 or greater, you would have been one of the almost 14 million filers making up the top 10%. This group reported about \$4.58 trillion in AGI (more than 47% of all AGI reported) and accounted for about 70.9% of total individual income tax for the year.

To make the top 5%, you would have needed \$188,996 or more in AGI. You would have been among approximately 7 million filers who reported almost \$3.5 trillion in total AGI and accounted for about 60% of total income taxes paid.

It's also worth noting that the top 3% of all 2014 individual income tax returns based on AGI accounted for 52.9% of total income tax paid for the year.

The very, very top

For the 2014 tax year, 1.4 million returns had an AGI of \$465,626 or more. These taxpayers make up the top 1% of filers, reporting almost \$2 trillion in total AGI and responsible for just under a 40% share of the total tax haul.

The 1,396 income tax returns that showed \$56,981,718 or more in AGI make up the top 0.001% (that's the top one-thousandth of 1%) of 2014 filers. These filers together reported over \$207 billion in AGI and paid over 3.6% of taxes.

Not all high-income returns showed tax

Of the 6.2 million income tax returns filed for 2014 with an AGI of \$200,000 or more, 10,905 showed no U.S. income tax liability (the number drops to 3,927 if you eliminate returns filed by individuals who were responsible for income taxes to foreign governments and had no U.S. income tax because of a credit for such taxes paid).

Why did these high-income returns show no U.S. tax liability? The IRS report noted that these returns show no tax for a variety of reasons, including tax credits and deductions, most notably miscellaneous deductions and deductions for charitable contributions, medical and dental expenses, and investment interest expenses. A significant secondary factor was the deduction for taxes paid.

Average tax rates

Dividing total tax paid by total AGI yields the following average federal income tax rates for the 2014 tax year:

Top Filers (by Percentile)	AGI Threshold	Average Tax Rate
0.001%	\$56,981,718	24.01%
0.01%	\$11,407,987	25.92%
0.1%	\$2,136,762	27.67%
1%	\$465,626	27.16%
5%	\$188,996	23.61%
10%	\$133,445	21.25%
20%	\$90,606	18.64%
30%	\$66,868	17.19%
40%	\$50,083	16.24%
50%	\$38,173	15.52%

¹ Excludes returns filed by dependents; based on final estimates for tax year 2014 reported in Spring 2017 Statistics of Income Bulletin

