STIFEL IN CESTING

Understanding the Bond Market

As markets become volatile, investors often turn to bonds as an alternative to stocks. While bonds can play an integral role in a well-diversified portfolio, you should fully understand their characteristics before investing. Bonds are often deemed a "safe" investment. However, it's important to be aware that bonds, like all investments, do carry some risk, and those risks need to be considered carefully.

Bond Fundamentals

Simply put, bonds are issued by companies and government bodies to fund their day-to-day operations or to finance specific projects. When you buy a bond, you are, in fact, loaning money for a certain period of time to the issuer of the bond. In return, you receive the principal amount back, with interest, at the time the bond comes due or "matures."

A bond's face value, or the price at issue, is known as its "par value," and the interest payment is known as its "coupon." The price of bonds will fluctuate, similar to stocks, throughout the trading day. However, with most bonds, the coupon payment will stay the same (some floating-rate securities do exist). If you purchase a bond in the secondary market at the face value, it is considered to be sold at "par." If a bond's price is above its face value, it is sold at a premium. If a bond's price is below face value, it is sold at a discount.

It's important to understand that not all bonds are created equal. While all bonds are considered debt instruments, they are created by different entities for very different purposes and carry varying risks and taxrelated liabilities.

In general, there are three main categories that bonds will fall under: government, municipal, and corporate.

Government Bonds

If you're looking for low-risk investments, U.S. Treasuries are typically a good option, as they are backed by the full faith and credit

of the U.S. government. The U.S. Treasury regularly offers three types of securities: Treasury bills, notes, and bonds. Treasury bills (or T-bills) are short-term securities that mature in one year or less from their issue date and are purchased for a price below their face value. Treasury notes and bonds pay a fixed rate of interest every six months until the security matures. Treasury notes mature in more than a year, but not more than ten years from their issue date. Treasury bonds, on the other hand, mature in more than ten years from their issue date. Bonds and notes can usually be purchased for a price close to their face value. Interest from Treasury securities is exempt from state and local income taxes, which make them particularly beneficial if you live in a state with a high tax rate.

In addition to U.S. Treasuries, certain federal government agencies or government-sponsored enterprises (GSEs) are authorized by Congress to issue debt securities to specific groups of borrowers, such as homeowners, farmers, and students. In general, debt securities issued by GSEs are considered to have high credit quality. However, it is important to recognize that issuers in the U.S. agency bond market are corporations and that their bonds are not explicitly guaranteed by the U.S. government.

Municipal Bonds

Just as the federal government needs funds to operate, local governments and public entities, such as school districts, often issue municipal bonds to address their financial needs. Municipal bonds can be issued by states, cities, towns, or public commissions to provide money for schools, hospitals, and other public works. These securities provide income that is free of federal and, in some cases, state and local taxes. (Although income generated by most municipal bonds is exempt from taxes, any capital gains earned from the sale of bonds are subject to all federal and most state tax laws, and certain bonds may be subject to the alternative minimum tax.)

Corporate Bonds

Corporate bonds, unlike U.S. Treasuries and municipal bonds, are fully taxable and may carry greater risk. At the same time, they may offer higher returns than tax-advantaged bonds. Corporate bonds are issued by corporations, typically in denominations of \$1,000 with terms of 1 to 30 years. Unlike stocks, bonds do not give the holder ownership interest in the corporation, as they are simply a tool used to lend the corporation funds it needs to fund its goals.

Because corporate bonds generally carry greater risks than government and municipal bonds, it is important to understand the quality of the bond you are considering for investment. To evaluate a bond's credit quality, you can look to bond rating agencies such as Moody's Investors Service and Standard & Poor's. Bonds rated Baa or above by Moody's and BBB or above by Standard & Poor's are considered investment grade. Bonds rated below investment grade are considered more speculative and carry greater risk.

Understanding Yields

As previously mentioned, the coupon rate is the interest rate paid on a bond. This amount is expressed as a percent of par value (typically \$1,000). For example, a 4% coupon would indicate that the annual interest paid on the bond is \$40. The current yield rate indicates the current rate of return you will receive on each dollar invested, without any adjustments for differences between the purchase price and the maturity value. The current yield rate is useful when comparing current yields

Credit Risk	Moody's	Standard & Poor's
Investment Grade		
Highest Quality	Aaa	AAA
High Quality (very strong)	Aa	AA
Upper Medium Grade	А	А
Medium Grade	Baa	BBB
Non Investment-Grade		
Somewhat Speculative	Ва	BB
Highly Speculative	Caa	CCC
Most Speculative	Ca	CC
Imminent Default	С	С
Default	С	D

on various income investments. The yield to maturity rate indicates the overall rate you will earn, including adjustments for any differences between the purchase price and the \$1,000 maturity value.

The yield to call rate indicates the overall rate you will earn, including adjustments for any differences between the purchase price and the call price, in the event the bonds are called by the issuer. It is important to make note of the yield to maturity and yield to call on any bonds you are considering purchasing.

Laddering

No one can ever be completely certain as to where yields on bonds are headed. A popular way to help balance risk and return in a bond portfolio is to employ a technique called laddering. You can build a laddered portfolio by purchasing a collection of bonds with different maturities spread out over their investment time frame. By staggering maturities, you may be able to reduce the impact that changes in interest rates can have on your portfolio.

For example, you could create a laddered portfolio by purchasing bonds that mature each year over a span of ten years. By using a rollover strategy as well, when the first bond matures, you could reinvest those funds in a bond that matures in ten years. As each bond matures, you would continue this process. After ten years, you would own all ten-year bonds, with one maturing every year. By laddering the bond portfolio, you can worry less about fluctuations in interest rates. If interest rates rise, you will soon have money available, from a maturing bond, to purchase a new bond. If interest rates should fall, then you will have at least managed to secure higher rates for a portion of your portfolio. This strategy can also be used with certificates of deposit (CDs).

The Effect of Taxes

Many investors find municipal bonds attractive because of their tax advantages. However, it is important to compare the taxadvantaged bonds to taxable investments in order to determine the best investment for your situation.

In order to compare rates of return on investments, it is helpful to adjust the tax-free rates to their "taxable equivalent" rates.

This is the taxable rate that would have to be earned in order to net the same tax-free rate, after paying federal income taxes. To calculate the taxable equivalent rate, simply divide the tax-free rate by one minus your federal tax bracket rate. For example, if your federal marginal tax bracket is 32% and an investment offers a tax-free rate of 3%, the taxable equivalent rate would be 4.41% (4%/1 - .32 = 4.41%).

Based on this calculation, you would have to earn 4.41% on an investment that was subject to federal income taxes to net the same 3% that the tax-free investment offered.

Knowing the Risks

While the income generated by bonds is generally "fixed," the same is not true for a bond's return. There are many risks that may affect a bond's return. These risks include:

Inflation risk — Due to the fact that most bond interest payments are fixed, their value can be depleted by inflation. Therefore, the longer the term of the bond, the greater the inflation risk.

Interest rate risk — The prices of bonds move in the opposite direction of interest rates. When interest rates rise, prices of outstanding bonds fall. This is because newer bonds will be issued paying higher coupons, making the older, lower-yielding bonds less attractive. On the other hand, when interest rates fall, prices of outstanding bonds will rise.

Duration risk — Duration is a measure of a bond price's interest rate sensitivity. This calculation is the approximate percentage change in the price of a bond or bond portfolio due to a 100 basis point change in yields. For example, a bond with a duration of five indicates that it's subject to a price change of 500 basis points for each 100 basis point change in yields. Bonds with higher durations carry more risk and have higher price volatility than bonds with lower durations.

Call risk — Many corporate and municipal bond issuers have the right to redeem or "call" their bonds before they have matured. When a bond is redeemed, its issuer is required to pay the bondholder the par value of the bond only, which means the bondholder may get less than the market price of the bond, but will also have to reinvest his or her funds at prevailing rates.

Credit risk — Because a bond is a debt instrument, there is a risk that the bond

issuer will be unable to make its payments on time, or at all. If a company enters bankruptcy, bondholders will receive any money due before stockholders receive their portion. However, depending on the situation, there are no guarantees the bondholder's investment will be returned at all

Liquidity risk — In general, bonds do not offer the liquidity that stocks provide. When purchasing a bond, remember that bonds generally should be considered a longer-term investment.

Market risk — Because the rate on most bonds is fixed, the market value of these investments will fluctuate over time, reflecting current changes in interest rates. Bonds follow the laws of supply and demand. The more popular or less plentiful a bond, the higher the price it can command in the market.

Diversify With Bonds

Bonds can be important part of an asset allocation mix and can be useful in diversifying your portfolio. However, diversification does not ensure a profit or protect against loss in declining markets. Determining how much of your portfolio should be allocated to bond investments will be based upon your long-term financial goals and objectives, your tolerance for risk, investment time horizon, and ability to invest. To learn whether investing in bonds is right for you, contact us today.