

THE PROCESS OF MANAGING RETIREMENT INCOME

BUILDING A CASH FLOW RESERVE LADDER



One of the challenges that confronts retirees and their advisors is how to prevent having to sell their hard earned retirement assets at the wrong time. We have all heard the age old investment adage “Buy Low and Sell High,” which tells us to buy assets when they are out of favor but to time the disposition of the assets when the markets are in your favor.

The road of retirement should be paved with more than good intentions. Soon-to-be retirees need to develop and follow a retirement income plan that balances current lifestyle and long-term sustainability of the retirement portfolio. The *Road of Retirement* series provides some best practices for accomplishing this balance.

This timing is even more important for retirees since they are liquidating assets to support expenses and not reinvesting. Therefore, one goal for each retiree and their advisor is how to prevent being in a position of having to sell their retirement assets for less than their potential worth.

When structuring a retirement investment portfolio, there are two tenets that can be followed which may help achieve this goal. The first is to invest the retirement savings in a well-diversified portfolio that includes cash, fixed income, and equity investments. Preferably, the equity investment allocation should focus on providing a high and growing dividend income stream. The second is to implement a Cash Flow Reserve (CFR) Ladder that can provide monthly income during retirement and can allow the retiree

and their advisor the ability to dictate when to sell assets into the market. Historically, fixed income and equity assets have had a tendency to be favorably priced at different times in the market, giving the retiree the ability to time the disposition of the retirement assets when it may be most optimal. Using a ladder structure that includes a cash flow reserve for near-term expenses, and both fixed income and equity assets for intermediate and longer-term expenses, is one structure that may help achieve this goal.

The consequences of not being diversified and then forced to sell into a bear market can be significant. Illustrated below are the account values for a hypothetical retiree who retired on January 1, 2000 with \$1 million in retirement savings, withdrawing \$50,000 a year, and indexed to inflation. Compared are

FIGURE 1. HYPOTHETICAL ILLUSTRATION OF DIVERSIFICATION AND A CFR LADDER IN RETIREMENT



* 5% Morningstar Municipal Money Market Index, 5% Barclays 5-year Municipal Bond Index, 25% Barclays 10-year Municipal Bond Index, and 65% S&P 500 Index.

** S&P 500 Index

Diversification and/or the use of the CFR Ladder is no guarantee against loss of principal.

Past performance does not guarantee future results.

Source: Barclays and Morningstar



two hypothetical retirement portfolios: one that is diversified among asset classes and uses a CFR Ladder versus one that is allocated to only equity and does not use a CFR Ladder.

As **figure one** illustrates, using a CFR Ladder and being well diversified provided a benefit during this difficult retirement period which included two significant bear markets in 2000–2002 and 2008.

Structuring a Cash Flow Reserve Ladder

A Cash Flow Reserve Ladder is comprised of three “rungs” that strive to align the least volatile assets to meet the retiree’s near-term expenses while giving equity assets the opportunity to grow. This potential growth of the equity investments is intended to offset the eroding effects of inflation on the retirement savings. As illustrated in **figure two**, the three rungs include: a checking account, a cash flow reserve, and an investment portfolio. The intended investment time horizon for each rung is shown across the bottom and the intended refill timeline is shown across the top.

Now let’s examine how each rung is designed to work and what types of investments might be chosen for each.

Checking Account

On the first of each month, the retiree writes a check from the cash flow reserve and deposits it into the checking account to pay for expenses. This provides a monthly cash flow, which from a behavioral finance perspective is very healthy and allows the retiree to budget for monthly spending accordingly.

Cash Flow Reserve

The cash flow reserve is comprised of two years’ worth of spending needs in short-term assets such as a money market account and possibly a limited-term bond fund. The retiree draws a check from the cash flow reserve to deposit into the checking account at the beginning of each month. The relative liquidity of this rung can provide the retiree with the ability to cover two years of spending. Having two years’ worth of disposable assets can be key to helping alleviate ill-timed selling into a bear market. Once the distribution phase begins, we prefer to see dividend and interest income not reinvested during the year, but rather transferred into the cash flow reserve. This naturally replenishes the cash flow reserve and any excess can be reinvested at year end.

Investment Portfolio

Fixed income investments have historically performed better when equities are out of favor; therefore, having a balanced portfolio of fixed income and equity investments can help alleviate selling retirement assets at a less opportune time in order to fund retirement spending. In this rung of the ladder, there will typically be enough fixed income investments to pay for an additional four to five years of spending. Also

included in this rung is an allocation to equity investments, which have historically been more volatile than fixed income assets but also provide the potential for higher returns over time. While the equity investments may provide the necessary growth to help offset the eroding effects of inflation in retirement, retirees also need to have the flexibility to sell assets when the markets are attractively valuing those investments. The assets from this rung are used to replenish the funds in the cash flow reserve as needed. Again, the goal is to have the flexibility to sell either the equity or the fixed income assets at an opportune time.

Asset Allocation Alternatives

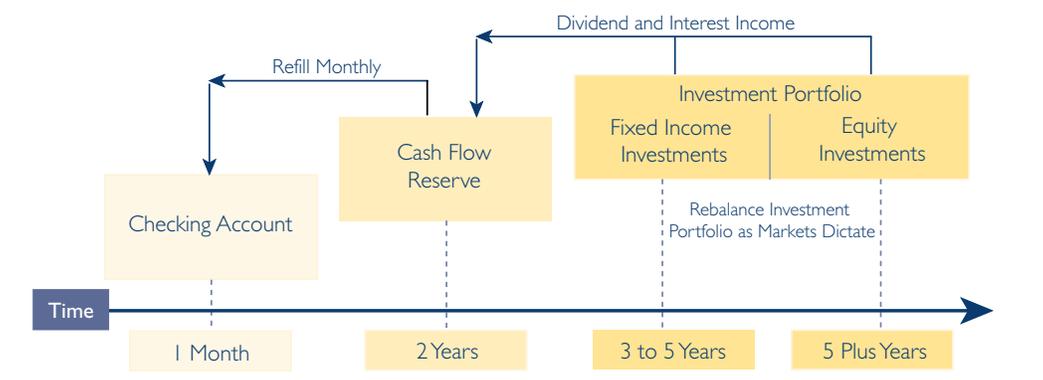
Now that we know the basic structure and operation of a CFR Ladder, let’s discuss just a few of the many ideas for how the retirement assets can be allocated to each rung. The most appropriate investments will vary depending on an individual’s needs and investment objectives and should be discussed with a financial advisor. For illustration purposes, let’s assume a retiree has a \$1 million portfolio and wishes to spend \$50,000 each year, indexed to inflation. **Figure three** is an example of how the savings could be allocated among the various rungs of the ladder.

In this example, the \$100,000 placed in the cash flow reserve is evenly divided between a money market account and a limited-term bond fund. For taxable accounts, you can use municipal money market funds and/or municipal limited-term bond funds as they can be attractive here. Remember that the primary goal of this rung is principal protection.

The investment portfolio is divided into two separate components. The \$250,000 allocation to fixed income represents 25% of the assets and if need be, can provide up to five years of additional spending at \$50,000 per year. The intermediate-term bond fund portion has a time horizon of five to ten years, and should be conservatively managed with a primary goal of principal protection.

The \$650,000 in the equity portion of the investment portfolio represents 65% of the overall asset allocation of the portfolio. This portion is intended to provide the possibility of long-term growth that may offset the eroding effects of inflation. The CFR Ladder approach allows the retiree and advisor time to liquidate these assets into potentially more favorable markets. Using a high and growing dividend-paying stock fund

FIGURE 2. HYPOTHETICAL CASH FLOW RESERVE LADDER



in this rung may provide the double benefits of a growing dividend stream to contribute to the current income needs of the retiree and the potential growth that is historically associated with equity investments.

Let's return to the hypothetical retirement that began on January 1, 2000. At that time, the retiree chose to spend \$50,000 per year and indexed to inflation. **Figure four** illustrates the values of the hypothetical portfolio and the different allocations as they appeared on January 1 of the first, tenth, and twelfth year of retirement.

On January 1, 2000, the retiree had just transferred \$4,167 into the checking account to cover the monthly expenses, with \$95,833 in the cash flow reserve, and \$900,000 in the investment portfolio for a total value of \$1 million. The current year's spending is the \$4,167 times twelve months for \$50,000, and the spent-to-date amount is zero since the retirement just started. Now moving through the years to January 1, 2009, following the significant declines of 2008, the retiree had just placed \$5,383 in the checking account, and the cash flow reserve was down to \$77,230 since a decision was made not to sell any of the assets in the investment portfolio in late 2008 to replenish the cash flow reserve. The preference was to hold off selling any assets until the markets stabilized. The total portfolio was down to \$985,567, which approximates the \$1 million originally invested in the portfolio. Not to be forgotten, the retiree has spent \$502,247 during the first nine years of retirement and the current spending rate is 6.6%. This rate, although a bit elevated is still reasonable given the recent poor market performance, but will have to be watched closely in the following years.

FIGURE 3. HYPOTHETICAL CASH FLOW RESERVE LADDER

Rung of Ladder	% of Portfolio	\$ Allocation	Asset Type
Checking Account	0%		Cash from Cash Flow Reserve
Cash Flow Reserve	10%	\$50,000 \$50,000	Money Market Account Limited-term Bond Fund
Investment Portfolio			
• Fixed Income Investments	25%	\$250,000	Intermediate-term Bond Fund
• Equity Investments	65%	\$650,000	Hypothetical Dividend Growers Portfolio

At the beginning of 2014, the account had recovered nicely to \$1.49 million in value given improved market conditions. In addition, the retiree was not forced to sell any of their retirement assets during the 2008 bear market at depressed prices. Monthly spending for 2014 is up to \$5,826 and the current withdrawal rate has been reduced to a very healthy 4.3%. All in all, the CFR Ladder performed well given the very challenging markets that have impacted this 14-year hypothetical retirement period.

In summary, utilizing the structure of a CFR Ladder with a well-diversified portfolio during the distribution phase of retirement can provide retirees with the necessary foundation and discipline to alleviate selling their retirement assets into a bear market. The cash flow reserve has the ability to provide two years of liquidity, thus allowing expenses to be met readily. The investment portfolio has a mix of intermediate-term fixed income and equities focusing on a high and growing dividend income stream that may be liquidated during opportune times in the market to refill the cash flow reserve. Hopefully, this type of structure can help the retiree stay on plan and meet expenses.

FIGURE 4. HYPOTHETICAL RETIREMENT ACCOUNT

Account Status	Jan 1, 2000	Jan 1, 2009	Jan 1, 2014
Checking Account	\$4,167	\$5,383	\$5,826
Cash Flow Reserve	\$95,833	\$77,230	\$143,047
Hypothetical Investment Portfolio*	\$900,000	\$902,954	\$1,492,323
Total Retirement Account	\$1,000,000	\$985,567	\$1,641,196
Hypothetical Retirement Metrics	Jan 1, 2000	Jan 1, 2009	Jan 1, 2014
Average Annual Return Since Retirement Inception	0%	5.48%	8.56%
Current Year's Withdrawal Amount	\$50,000	\$64,597	\$69,910
Years Since Retirement Inception	0	9	14
Spent-to-Date Amount in Retirement	\$0	\$502,247	\$824,555
Current Withdrawal Rate	5%	6.6%	4.3%

Past performance does not guarantee future results.

*5% Morningstar Municipal Money Market Index, 5% Barclays 5-year Municipal Bond Index, 25% Barclays 10-year Municipal Bond Index and 65% S&P 500 Dividend Aristocrats Index

For illustration purposes only. Not indicative of a particular investment.

Sources: Barclays, Morningstar, and Standard & Poor's

Following this strategy does not assure or guarantee sustainability of a retirement portfolio or better performance, nor does it protect against investment losses.

Investments in mutual funds carry risks, including possible loss of principal. Bond funds have the same interest rate, inflation, and credit risks that are associated with the underlying bonds. The principal value of bond funds will fluctuate relative to changes in interest rates, decreasing when interest rates rise. Unlike bonds, bond funds have ongoing fees and expenses. Investments in equity securities are subject to additional risks, such as greater market fluctuations. Investments in mutual funds are not FDIC insured, nor are they deposits of or guaranteed by a bank or any other entity.

The views expressed in this article are subject to change.

The cash flow reserve structure is based upon the work done by Harold Evensky and Deena Katz of Evensky and Katz in Coral Gables, FL.

Investments in a money market are not FDIC insured, nor are they deposits of or guaranteed by a bank or any other entity. Although a money market fund seeks to preserve the value of your investment at \$1.00 per share, it is possible to lose money by investing in a money market fund.

Rebalancing – refilling the money market fund with an allocation from the equity account at the beginning of each year.

Monthly Cash Flow – monthly check withdrawn from Cash Flow Reserve and assumed placed into checking account at the beginning of each month.

The Consumer Price Index (CPI) measures prices of a fixed basket of goods bought by a typical consumer, including food, transportation, shelter, utilities, clothing, medical care, entertainment and other items. The CPI, published by the Bureau of Labor Statistics in the Department of Labor, is based at 100 in 1982 and is released monthly. It is widely used as a cost-of-living benchmark to adjust Social Security payments and other payment schedules, union contracts and tax brackets. Also known as the cost-of-living index.

The S&P 500 Index is an unmanaged broad measure of the U.S. stock market.

The Barclays 5-Year Municipal Bond Index covers USD-denominated, investment-grade, tax-exempt bonds with maturities between four and six years. The index has four main sectors: state and local general obligation bonds, revenue bonds, insured bonds, and prerefunded bonds.

The Barclays 10-Year Municipal Bond Index covers USD-denominated, investment-grade, tax-exempt bonds with maturities between nine and eleven years. The index has four main sectors: state and local general obligation bonds, revenue bonds, insured bonds, and prerefunded bonds.

The S&P 500 Dividend Aristocrats Index is equally weighted and measures the performance of large cap, blue chip companies within the S&P 500 Index that have followed a policy of increasing dividends every year for at least 25 consecutive years.

Morningstar Municipal Money Market category covers portfolios that invest in short-term municipal money market securities that are often exempt from some federal and state taxes. These funds provide current income and aim to preserve capital.

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