

# **Canterbury**Consulting

# **Quarterly Asset Class Report**

# **Taxable Fixed Income**

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## Role in the Portfolio

Canterbury Consulting recommends and communicates asset-class strategy with the objective of constructing a diversified portfolio of fixed income strategies designed to (in aggregate):

- (i) Preserve after-tax wealth and mitigate volatility
- (ii) Maintain comparable exposure to the broad municipal market
- (iii) Exhibit returns uncorrelated to equity markets



- Canterbury global fixed income portfolios are expected to deliver consistent after-tax and net of fees excess returns and moderate tracking error versus the Barclays Municipal Bond Index
- Canterbury's fixed income portfolios will exhibit benchmark-like after-tax yields and credit quality. However, they will
  do so with more portfolio diversification and lower duration

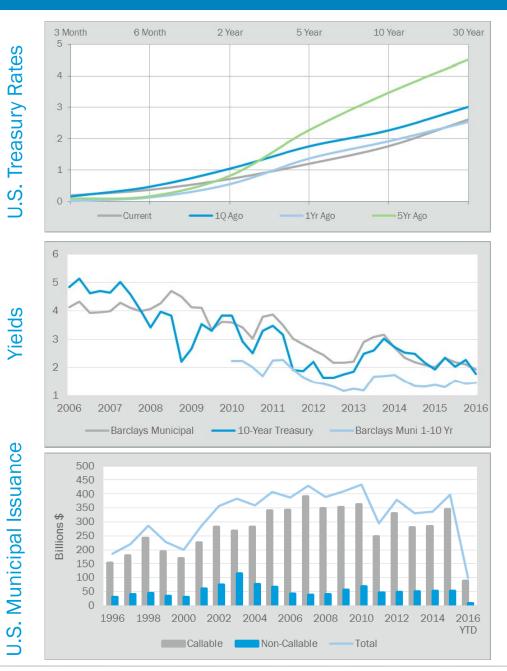
## Index Returns

Fixed Income

|                                  | QTD  | YTD  | 1 Year | 3 Years | 5 Years | 7 Years | 10 Years |
|----------------------------------|------|------|--------|---------|---------|---------|----------|
| Barclays Global Aggregate        | 5.90 | 5.90 | 4.57   | 0.87    | 1.81    | 3.72    | 4.35     |
| Barclays US Agg Bond             | 3.03 | 3.03 | 1.96   | 2.50    | 3.78    | 4.52    | 4.89     |
| U.S. Treasurys                   |      |      |        |         |         |         |          |
| BofAML 3M US Treasury Note       | 0.10 | 0.10 | 0.18   | 0.09    | 0.10    | 0.12    | 1.16     |
| Barclays Short Treasury          | 0.19 | 0.19 | 0.27   | 0.17    | 0.17    | 0.22    | 1.33     |
| Barclays Intermediate Treasury   | 2.35 | 2.35 | 2.25   | 1.53    | 2.59    | 2.43    | 4.04     |
| Barclays Long Term US Treasury   | 8.15 | 8.15 | 2.77   | 6.13    | 9.66    | 6.73    | 7.97     |
| Barclays U.S. Treasury TIPS 0-5Y | 1.81 | 1.81 | 1.41   | -0.45   | 0.72    | 2.08    | 2.96     |
| Barclays US Treasury US TIPS     | 4.46 | 4.46 | 1.51   | -0.71   | 3.02    | 4.16    | 4.62     |
| U.S. Corporate Credit            |      |      |        |         |         |         |          |
| Barclays US Corp IG              | 3.97 | 3.97 | 0.92   | 3.03    | 5.17    | 7.98    | 5.82     |
| S&P/LSTA Leveraged Loan          | 1.55 | 1.55 | -1.25  | 1.85    | 3.23    | 8.98    | 4.27     |
| BofAML US HY Master II           | 3.25 | 3.25 | -3.99  | 1.75    | 4.71    | 12.35   | 6.85     |
| BofAML US HY BB-B Constrained    | 3.15 | 3.15 | -2.34  | 2.51    | 5.15    | 11.11   | 6.52     |
| BofAML US Corporate AAA          | 4.42 | 4.42 | 2.87   | 3.47    | 4.49    | 5.19    | 4.69     |
| BofAML US Corporate AA           | 3.68 | 3.68 | 2.46   | 3.20    | 4.56    | 6.27    | 4.97     |
| BofAML US Corporate A            | 3.64 | 3.64 | 2.01   | 3.27    | 5.15    | 7.78    | 5.25     |
| BofAML US Corps BBB              | 4.27 | 4.27 | -0.36  | 2.73    | 5.36    | 9.39    | 6.53     |
| BofAML US High Yield BB          | 3.71 | 3.71 | -0.04  | 3.72    | 5.93    | 11.38   | 7.43     |
| BofAML US High Yield B           | 2.45 | 2.45 | -5.24  | 1.00    | 4.20    | 10.91   | 5.58     |
| BofAML US High Yield CCC         | 3.82 | 3.82 | -13.31 | -2.69   | 1.81    | 15.15   | 6.54     |
| Securitized                      |      |      |        |         |         |         |          |
| Barclays ABS                     | 1.36 | 1.36 | 1.71   | 1.38    | 2.46    | 4.87    | 3.40     |
| Barclays MBS                     | 1.98 | 1.98 | 2.43   | 2.70    | 3.24    | 3.68    | 4.85     |
| Barclays CMBS                    | 3.50 | 3.50 | 2.89   | 2.49    | 4.24    | 9.73    | 5.72     |
| Municipala                       |      |      |        |         |         |         |          |
| Municipals                       | 1.67 | 1.67 | 2.00   | 3.63    | 5.59    | 5.59    | 4.86     |
| Barclays Municipal               |      |      | 3.98   |         |         |         |          |
| Barclays Muni 1-10               | 1.11 | 1.11 | 2.55   | 2.21    | 3.25    | 3.46    | 3.97     |
| Global                           |      |      |        |         |         |         |          |
| Citi WGBI                        | 7.09 | 7.09 | 5.92   | 0.49    | 1.16    | 2.74    | 4.19     |
| Barclays GbI Agg Ex USD          | 8.26 | 8.26 | 6.69   | -0.32   | 0.39    | 3.11    | 3.89     |
| JPM EMBI Plus                    | 5.94 | 5.94 | 5.88   | 2.78    | 6.08    | 9.26    | 7.12     |



### **Market Environment**



## U.S. long-term interest rates declined along the yield curve as global growth (and recessionary) concerns came to

- the forefront and rates in Japan and Europe went negative or moved closer to zero
- High yield had a volatile quarter, however, the BoFA Master II High Yield Index was up 3.25% by the end of March. High yield started to rebound by the middle of February as commodity and oil prices bounced back from their lows
- Rates declined and currencies appreciated in several EM countries as a dovish Fed and a rebound in commodity prices took priority. Positive investor sentiment in the second half of the quarter led to a rally in emerging markets.
- New issuance in the municipal market was slow to start the year. Municipal yields fell in tandem with treasury yields

Source: Securities Industry and Financial Markets Association ("SIFMA"); U.S. Treasury Department; Barclays

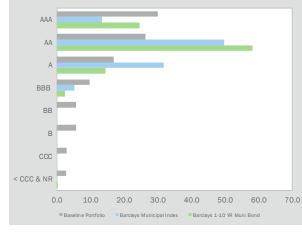
### **Fixed Income**

### **Portfolio Characteristics**

#### Sector Distribution

|                          | Baseline<br>Portfolio | Barclays<br>Municipal Index | Barclays 1-10<br>YR Muni Bond |
|--------------------------|-----------------------|-----------------------------|-------------------------------|
| US Treasury              | 2.8%                  | 0.0%                        | 0.0%                          |
| Agency                   | 3.6%                  | 0.0%                        | 0.0%                          |
| Local Authority (non-US) | 0.5%                  | 0.0%                        | 0.0%                          |
| Municipal (US)           | 44.4%                 | 100.0%                      | 100.0%                        |
| Sovereign (non-US)       | 19.2%                 | 0.0%                        | 0.0%                          |
| Supranational            | 0.2%                  | 0.0%                        | 0.0%                          |
| Corporate                | 6.5%                  | 0.0%                        | 0.0%                          |
| Bank Loans               | 4.0%                  | 0.0%                        | 0.0%                          |
| MBS                      | 7.7%                  | 0.0%                        | 0.0%                          |
| ABS                      | 0.2%                  | 0.0%                        | 0.0%                          |
| CMBS                     | 0.8%                  | 0.0%                        | 0.0%                          |
| Other & Cash             | 10.1%                 | 0.0%                        | 0.0%                          |

#### **Credit Quality Distribution vs. Benchmark**



#### **Regional Distribution - Country Allocation**

|                  | Baseline<br>Portfolio | Barclays<br>Municipal Index | Barclays 1-10<br>YR Muni Bond |
|------------------|-----------------------|-----------------------------|-------------------------------|
| US               | 73.0%                 | 100.0%                      | 100.0%                        |
| Non-US Developed | 16.2%                 | 0.0%                        | 0.0%                          |
| Non-US Emerging  | 10.8%                 | 0.0%                        | 0.0%                          |

#### **Regional Distribution - Currency Allocation**

|                  | Baseline<br>Portfolio | Barclays<br>Municipal Index | Barclays 1-10<br>YR Muni Bond |
|------------------|-----------------------|-----------------------------|-------------------------------|
| US               | 87.2%                 | 100.0%                      | 100.0%                        |
| Non-US Developed | -0.5%                 | 0.0%                        | 0.0%                          |
| Ion-US Emerging  | 13.3%                 | 0.0%                        | 0.0%                          |

#### Portfolio Characteristics

|  |                                   | Baseline<br>Portfolio | Barclays<br>Municipal Index | Barclays 1-10<br>YR Muni Bond |
|--|-----------------------------------|-----------------------|-----------------------------|-------------------------------|
|  | Effective Duration                | 3.01                  | 6.24                        | 4.00                          |
|  | Yield to Maturity (%)             | 3.95                  | 2.18                        | 1.53                          |
|  | Coupon Rate (%)                   | 4.09                  | 4.80                        | 4.81                          |
|  | Average Credit Quality (Barclays) | А                     | AA                          | AA                            |
|  | Portfolio Checklist               |                       |                             |                               |

#### ortfolio Checklist

|                                     | Baseline<br>Portfolio | Barclays<br>Municipal Index | Barclays 1-10<br>YR Muni Bond |
|-------------------------------------|-----------------------|-----------------------------|-------------------------------|
| Yield <sup>1</sup>                  | $\checkmark$          | $\checkmark$                | ×                             |
| Duration <sup>2</sup>               | $\checkmark$          | $\checkmark$                | $\checkmark$                  |
| Credit Quality <sup>3</sup>         | $\checkmark$          | $\checkmark$                | $\checkmark$                  |
| Sector Diversification <sup>4</sup> | $\checkmark$          | ×                           | ×                             |
| Region Diversification <sup>5</sup> | $\checkmark$          | ×                           | ×                             |

1. The yield-to-maturity ("YTM") should be 80% of the YTM of the benchmark or greater

2. Duration should not exceed the benchmark

3. Average credit quality, using Barclays methodology, should be BBB or higher

4. No sector should exceed 50% of the total allocation and at least half of the sectors should have allocations greater than 2.5%

5. No region (see "Regional Distribution") should exceed 75% of the of the total allocation

- Canterbury recommends reducing interest rate exposure by targeting a portfolio duration less than that of the benchmark (Barclays Municipal Index)
- Investors can lower portfolio duration (while maintaining yield) by allocating to credit and diversifying globally
- Inefficiencies in the municipal market allow us to target similar credit quality as the benchmark with much less duration risk
- Canterbury attempts to maximize the risk return relationship of fixed income portfolios by spreading risk across several factors (interest rate, credit, prepayment, liquidity, currency, political, counterparty, etc.)

# The Baseline Portfolio has allocations to the following investment manager types: 50% Municipals, 30% Global, 10% Credit, and 10% Mortgage-Backed Source of Benchmark Information: Barclays

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### Fixed Income