



Canterbury Consulting

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## Quarterly Asset Class Report

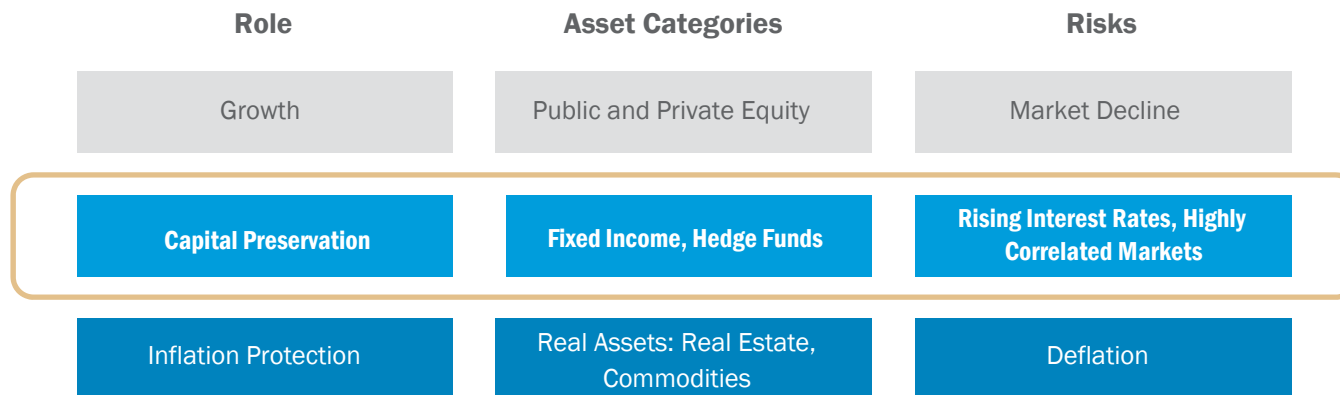
### Tax Exempt Fixed Income

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June 30, 2017

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 capital and mitigate volatility
- (ii) Provide measured exposure to the diverse universe of fixed income securities
- (iii) Exhibit returns uncorrelated to equity markets



- Canterbury fixed income portfolios are expected to deliver consistent net of fees excess returns and moderate tracking error versus the Barclays Global Aggregate
- Relative to the index, Canterbury’s current fixed income portfolios will exhibit lower duration, similar credit quality, and higher yields

# Index Returns

## Fixed Income

	QTD	YTD	1 Year	3 Years	5 Years	7 Years	10 Years
Barclays Global Aggregate	2.60	4.41	-2.18	-0.35	0.78	2.39	3.69
Barclays US Agg Bond	1.45	2.27	-0.31	2.48	2.21	3.19	4.48
Canterbury Benchmark <sup>1</sup>	2.06	3.84	-1.19	0.92	1.53	3.03	4.41

### U.S. Treasuries

BofAML 3M US Treasury Note	0.19	0.28	0.43	0.24	0.18	0.17	0.59
Barclays Short Treasury	0.18	0.30	0.48	0.33	0.26	0.24	0.77
Barclays Intermediate Treasury	0.66	1.21	-1.33	1.48	1.06	1.90	3.47
Barclays Long Term US Treasury	3.96	5.41	-7.22	5.58	2.76	5.95	7.34
Barclays U.S. Treasury TIPS 0-5Y	-0.50	0.19	0.32	0.01	0.32	1.23	2.50
Barclays US Treasury US TIPS	-0.40	0.85	-0.63	0.63	0.27	2.87	4.27

### U.S. Corporate Credit

Barclays US Corp IG	2.54	3.80	2.28	3.61	3.96	5.10	5.79
S&P/LSTA Leveraged Loan	0.76	1.91	7.42	3.35	4.58	5.09	4.48
BofAML US HY Master II	2.14	4.91	12.75	4.48	6.92	8.03	7.53
BofAML US HY BB-B Constrained	2.21	4.54	11.15	4.56	6.67	7.81	7.14
BofAML US Corporate AAA	3.35	4.28	-0.26	3.89	2.88	3.79	4.38
BofAML US Corporate AA	1.88	2.91	0.35	3.37	3.19	4.07	4.66
BofAML US Corporate A	2.26	3.43	1.19	3.51	3.69	4.79	5.05
BofAML US Corps BBB	2.65	4.46	3.91	3.58	4.64	5.83	6.69
BofAML US High Yield BB	2.59	4.65	9.82	5.23	6.87	8.02	7.91
BofAML US High Yield B	1.76	4.48	13.15	3.84	6.44	7.65	6.28
BofAML US High Yield CCC	1.70	6.95	23.08	4.44	8.30	8.98	8.21

### Securitized

Barclays ABS	0.60	1.14	0.63	1.66	1.49	2.25	2.98
Barclays MBS	0.87	1.35	-0.06	2.17	2.00	2.67	4.31
Barclays CMBS	1.31	2.09	-0.71	2.23	2.65	4.35	5.28

### Municipals

Barclays Municipal	1.96	3.57	-0.49	3.33	3.26	4.21	4.60
Barclays Muni 1-10	1.21	2.76	0.27	1.97	2.02	2.70	3.69

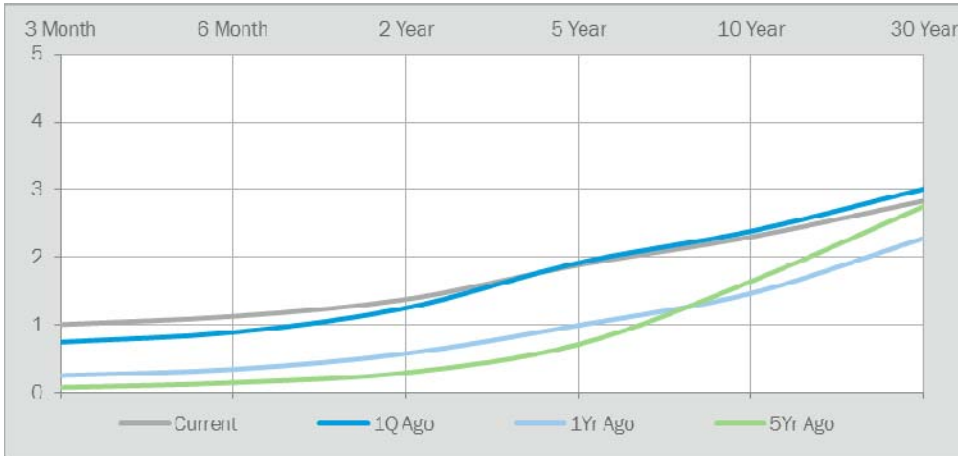
### Global

Citi WGBI	2.89	4.49	-4.14	-1.00	-0.20	1.68	3.49
Barclays Gbl Agg Ex USD	3.55	6.12	-3.80	-2.42	-0.36	1.75	3.05
JPM EMBI Plus	2.40	6.27	3.75	4.77	4.97	6.78	7.19

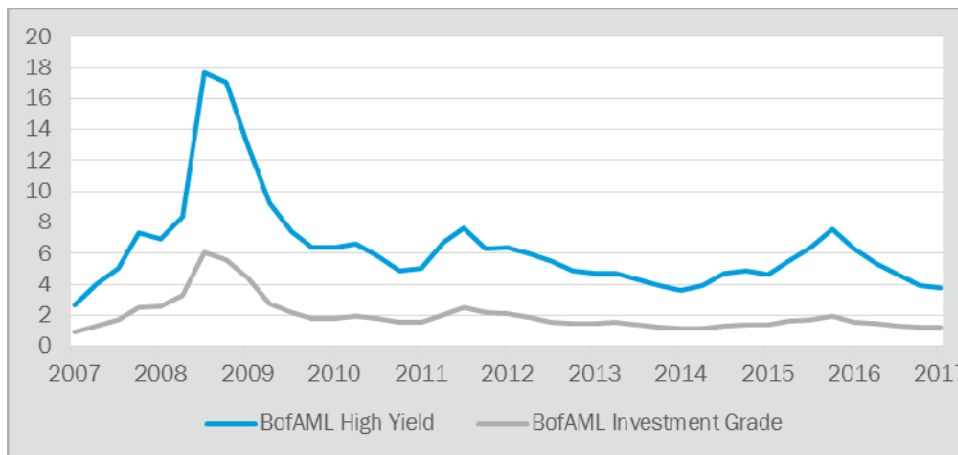
# Market Environment

## Fixed Income

### U.S. Treasury Rates



### Corporate Spreads



### World Bond Yields

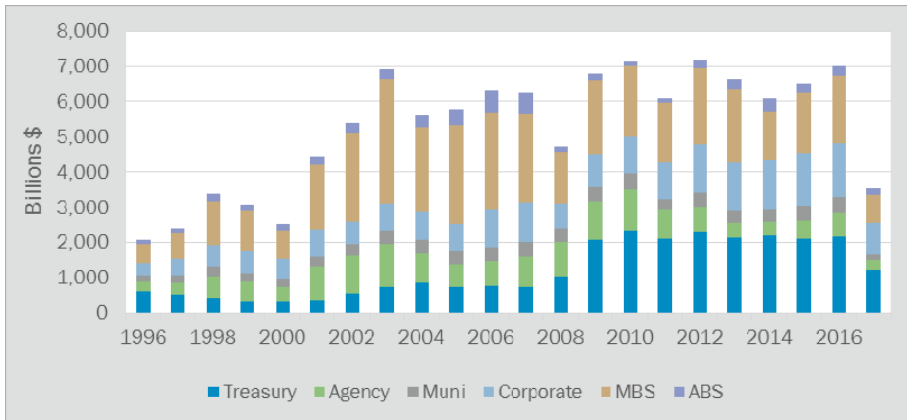
10-Year Sovereign Rates (%)											
Country	US	JAP	CHI	GER	ITL	FRA	UK	BRA*	MXN*	SPA	CAN
Rates (03/31)	2.39	0.06	3.27	0.32	2.30	0.96	1.14	10.06	7.00	1.64	1.62
Rates (06/30)	2.25	0.07	3.55	0.46	2.14	0.81	1.25	10.51	6.77	1.51	1.76

\*local currency

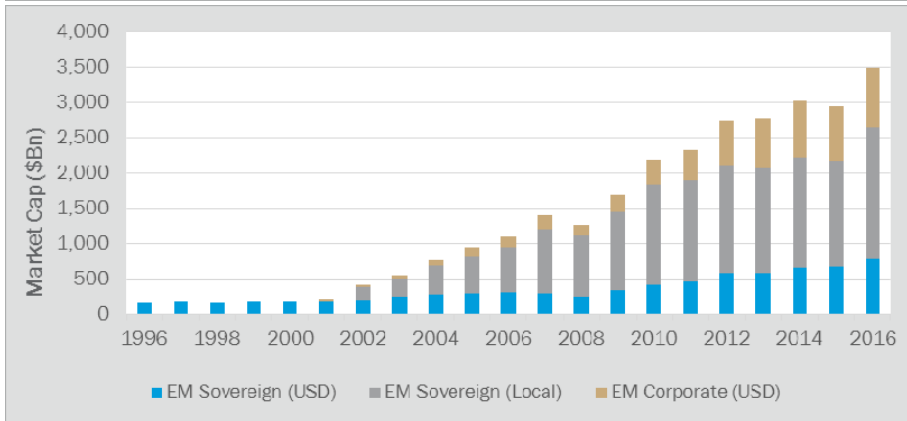
- Fixed income finished the quarter positive despite a second rate hike from the Fed in June. With long run targets unchanged, long-term interest rates remained anchored as inflation and term premiums remain subdued
- High yield and EM debt have been the strongest sectors within fixed income year-to-date. Credit spreads moved lower on the back of strong U.S. earnings. Asset flows into emerging markets accelerated as investors searched for higher yields
- Interest rates in several non-U.S. developed countries rose during the quarter as markets weighed the likelihood of the ECB tapering their QE program earlier than expected. Low growth and inflation forecasts should keep European interest rates range-bound in the near-term

# Market Environment

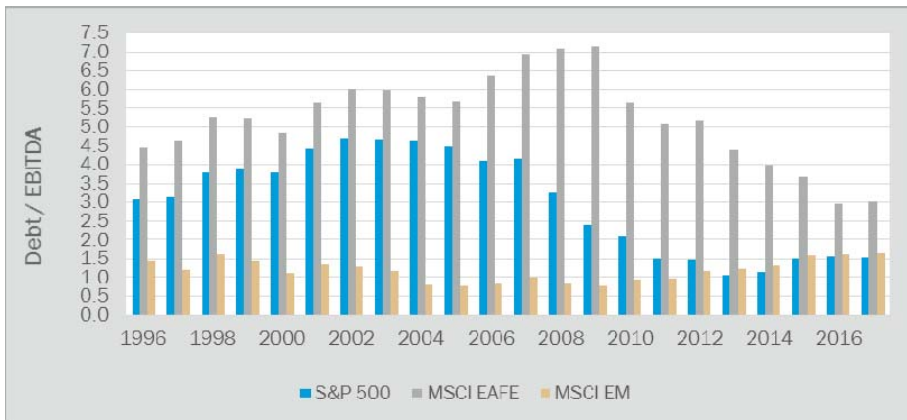
## U.S. Bond Issuance



## EM Debt Size



## Corporate Leverage



# Asset Class Report Updates

- U.S. treasury issuance significantly increased after the financial crisis. Since the Fed began tapering, treasury issuance plateaued while corporate and MBS issuance continued to grow
- The EM debt market has grown significantly since 1996. While investors have worried about EM liabilities denominated in U.S. dollars, debt denominated in local currency has exponentially grown since 2004
- Corporate leverage across the globe significantly decreased after 2008 with European and Japanese leverage higher than that of the U.S. and EM. Leverage in the U.S. and EM has since grown while leverage in Europe and Japan has moderated

# Portfolio Characteristics

Sector Distribution

	Current Portfolio	Barclays Global Aggregate	Barclays Aggregate
US Treasury	26.8%	15.2%	37.0%
Agency	1.6%	5.8%	1.9%
Local Authority (non-US)	0.3%	5.0%	2.8%
Municipal (US)	0.5%	0.4%	1.0%
Sovereign (non-US)	14.1%	1.2%	2.0%
IG Corporate	11.7%	21.3%	25.0%
HY Corporate	8.1%	0.1%	0.0%
Bank Loans	2.9%	0.0%	0.0%
MBS	30.5%	11.5%	28.2%
ABS	2.4%	0.2%	0.5%
CMBS	2.3%	0.7%	1.8%
CLD	0.6%	0.0%	0.0%
Other & Cash	-2.1%	38.6%	0.0%

Regional Distribution - Country Allocation

	Current Portfolio	Barclays Global Aggregate	Barclays Aggregate
US	76.1%	38.8%	100.0%
Non-US Developed	10.8%	55.1%	0.0%
Non-US Emerging	13.1%	6.1%	0.0%

Currency Allocation

	Current Portfolio	Barclays Global Aggregate	Barclays Aggregate
US	89.0%	44.9%	100.0%
Non-US Developed	-2.7%	52.0%	0.0%
Non-US Emerging	13.7%	3.2%	0.0%

Portfolio Characteristics

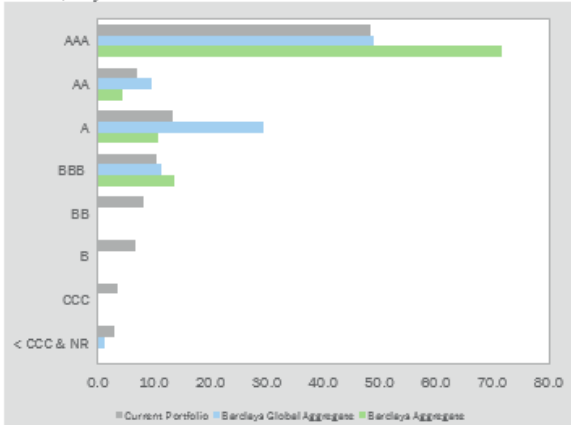
	Current Portfolio	Barclays Global Aggregate	Barclays Aggregate
Effective Duration	4.18	6.80	6.00
Yield to Maturity (%)	4.03	1.63	2.55
Coupon Rate (%)	4.30	2.71	3.06
Average Credit Quality (Barclays)	A	AA	AA

Portfolio Checklist

	Current Portfolio	Barclays Global Aggregate	Barclays Aggregate
Yield <sup>1</sup>	✓	✓	✓
Duration <sup>2</sup>	✓	✓	✓
Credit Quality <sup>3</sup>	✓	✓	✓
Sector Diversification <sup>4</sup>	✓	✓	✗
Region Diversification <sup>5</sup>	✗	✓	✗

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

Credit Quality Distribution vs. Benchmark



The Baseline Portfolio has allocations to the following investment manager types: 45% Core Plus, 30% Global, 10% Credit, and 15% Mortgage-Backed

Source of Benchmark Information: Barclays

## Fixed Income

- Canterbury recommends targeting a portfolio duration less than that of the benchmark (Barclays Global Aggregate) in order to reduce interest rate risk
- Investors can lower portfolio duration (while maintaining yield) by allocating to credit and diversifying globally
- To ensure the fixed income allocation reduces overall portfolio risk and provides diversification, Canterbury seeks to maintain a portfolio that, on average, is investment grade or better
- With low yields in non-U.S. developed fixed income markets, investors should consider maintaining an underweight exposure to the region relative to the Barclays Global Aggregate