# **Quarterly Asset Class Report**Tax Exempt Fixed Income

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Role in the Portfolio Fixed Income

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	2.89	8.96	8.87	2.80	1.77	3.43	4.40
Barclays US Agg Bond	2.21	5.31	6.00	4.06	3.76	4.58	5.13
Canterbury Benchmark <sup>1</sup>	3.61	9.21	8.92	3.61	2.72	4.39	5.08
J.S. Treasurys							
BofAML 3M US Treasury Note	0.09	0.19	0.25	0.11	0.11	0.12	1.05
Barclays Short Treasury	0.16	0.34	0.38	0.21	0.19	0.22	1.23
Barclays Intermediate Treasury	1.28	3.66	4.04	2.44	2.40	2.93	4.14
Barclays Long Term US Treasury	6.44	15.12	19.30	10.46	10.31	8.84	8.77
Barclays U.S. Treasury TIPS 0-5Y	0.85	2.68	1.66	0.62	0.57	2.00	2.90
Barclays US Treasury US TIPS	1.71	6.24	4.35	2.31	2.63	4.31	4.75
J.S. Corporate Credit							
Barclays US Corp IG	3.57	7.68	7.94	5.42	5.43	6.99	6.23
S&P/LSTA Leveraged Loan	2.92	4.51	0.94	2.76	3.79	6.57	4.46
BofAML US HY Master II	5.88	9.32	1.71	4.18	5.70	9.95	7.44
BofAML US HY BB-B Constrained	4.61	7.90	2.13	4.62	5.86	9.21	7.06
BofAML US Corporate AAA	3.30	7.87	10.44	5.72	4.71	5.40	5.03
BofAML US Corporate AA	2.67	6.45	7.79	5.17	4.70	5.72	5.25
BofAML US Corporate A	2.94	6.69	7.83	5.40	5.30	6.77	5.60
BofAML US Corps BBB	4.27	8.72	6.82	5.47	5.72	7.97	7.04
BofAML US High Yield BB	4.03	7.89	4.36	5.74	6.45	9.76	7.90
BofAML US High Yield B	5.39	7.98	-0.58	3.24	5.14	8.63	6.13
BofAML US High Yield CCC	14.21	18.58	-0.55	1.80	4.50	11.71	7.70
Securitized							
Barclays ABS	1.17	2.54	2.72	2.05	2.34	3.94	3.48
Barclays MBS	1.11	3.10	4.34	3.76	3.00	3.74	4.96
Barclays CMBS	2.01	5.57	5.80	3.64	4.20	8.34	5.94
Municipals							
Barclays Municipal	2.61	4.33	7.65	5.58	5.33	5.66	5.13
Barclays Muni 1-10	1.22	2.34	4.21	3.17	3.03	3.54	4.07
Global							
Citi WGBI	3.41	10.74	11.26	2.65	1.18	2.73	4.22
Barclays GbI Agg Ex USD	3.40	11.94	11.24	1.85	0.35	2.59	3.83
Darotayo dor ABB EX OOD	0.40	12.29	<b></b>	1.00	6.43	2.00	5.05

<sup>(1) 50%</sup> Barclays US Agg/40% Barclays Global Agg ex US/10% BofA ML HY Master II



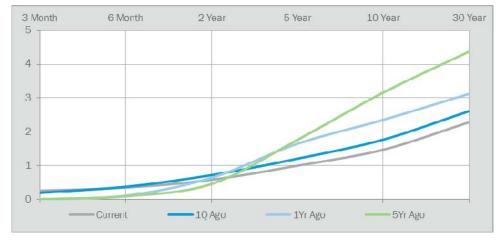
# **Market Environment**

# Fixed Income



High Yield Spreads

World Bond Yields



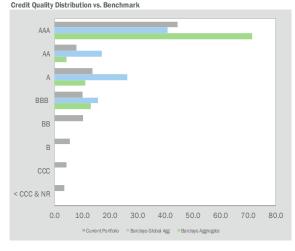


10-Year Sovereign Rates (%)											
Country	US	JAP	CHI	GER	ITL	FRA	UK	BRA*	MXN*	SPA	CAN
Rates (6/30)	1.47	-0.23	2.81	-0.13	1.25	0.18	0.86	12.04	5.88	1.16	1.06
Rates (3/31)	1.77	-0.04	2.82	0.15	1.22	0.48	1.41	13.95	5.91	1.43	1.22
*local currency											

- Developed market bond yields continued to decline as investors sought safe haven assets. The U.S. 10 Year Treasury rate declined by 30 basis points and interest rates in Japan and Europe moved into negative territory
- High yield spreads widened after the 'Brexit' news, however risky bonds subsequently rebounded as investors factored in a lower for longer interest rate environment. The BofA High Yield Master II ended the quarter up 5.88%
- While select EM bonds and currencies sold down significantly after the "Brexit" outcome, both rallied shortly after markets realized the UK is a relatively small export partner for emerging markets as a whole. From a regional perspective, Brazil was one of the best performers as political and economic uncertainties eased

## **Sector Distribution**

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	Current Portfolio	Barclays Global Agg	Barclays Aggregate	
US Treasury	25.7%	18.8%	36.6%	
Agency	2.2%	6.1%	2.7%	
Local Authority (non-US)	0.4%	12.4%	0.0%	
Municipal (US)	1.0%	0.0%	0.0%	
Sovereign (non-US)	17.0%	26.8%	0.0%	
Supranational	0.2%	2.2%	0.0%	
Corporate	15.6%	18.0%	24.7%	
Bank Loans	4.0%	0.0%	0.0%	
MBS	27.0%	15.7%	28.3%	
ABS	2.6%	0.0%	0.5%	
CMBS	3.0%	0.0%	1.8%	
Other & Cash	1.3%	0.0%	5.5%	



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

	Current Portfolio	Barclays Global Agg	Barclays Aggregate
US	72.7%	38.7%	100.0%
Non-US Developed	13.8%	55.8%	0.0%
Non-US Emerging	13.5%	5.5%	0.0%

# **Regional Distribution - Currency Allocation**

	Current Portfolio	Barclays Global Agg	Barclays Aggregate
US	90.2%	44.9%	100.0%
Non-US Developed	-4.7%	52.5%	0.0%
Non-US Emerging	14.5%	2.6%	0.0%

## Portfolio Characteristics

	Current Portfolio	Barclays Global Agg	Barclays Aggregate
Effective Duration	4.18	6.71	5.47
Yield to Maturity (%)	3.86	1.39	2.17
Coupon Rate (%)	3.93	2.90	3.25
Average Credit Quality (Barclays)	А	AA	AA

## Portfolio Checklist

	Current Portfolio	Barclays Global Agg	Barclays Aggregate
Yield <sup>1</sup>	<b>V</b>	<b>V</b>	$\overline{\checkmark}$
Duration <sup>2</sup>	$\checkmark$	$\overline{\checkmark}$	$\checkmark$
Credit Quality <sup>3</sup>	$\overline{\checkmark}$	$\overline{\checkmark}$	$\overline{\checkmark}$
Sector Diversification <sup>4</sup>	$\overline{\checkmark}$	$\overline{\checkmark}$	X
Region Diversification <sup>5</sup>	<b>V</b>	$\overline{\checkmark}$	X

- 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 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

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

