Investment Grade Fixed Income Overview

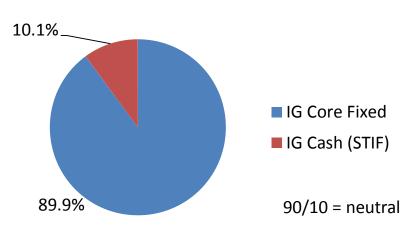
July 28, 2016



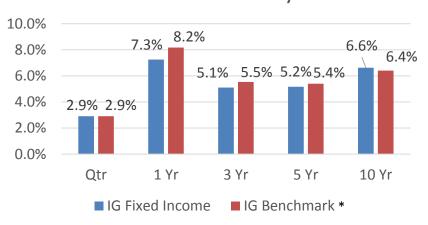
Investment Grade Fixed Income Profile

As of June 30, 2016

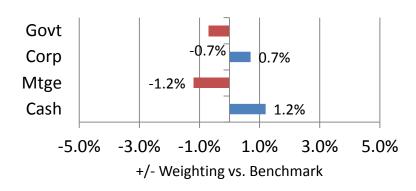




Return Summary



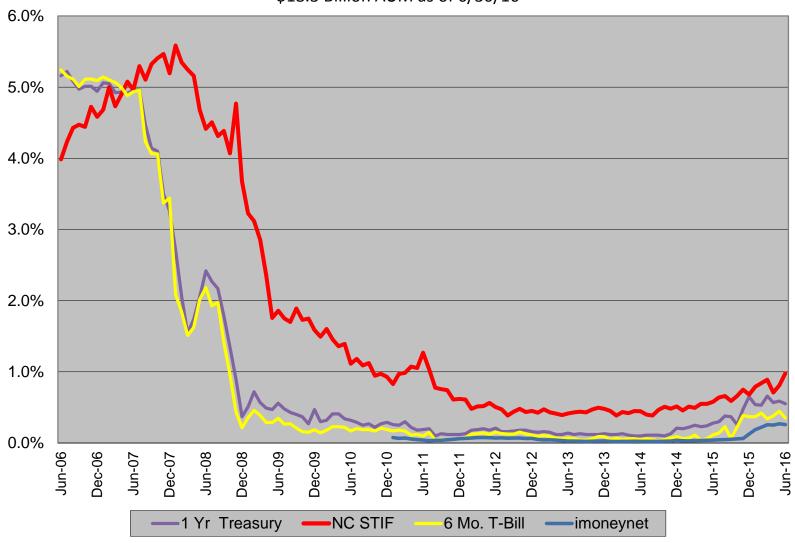
Relative Weighting in Core Fixed



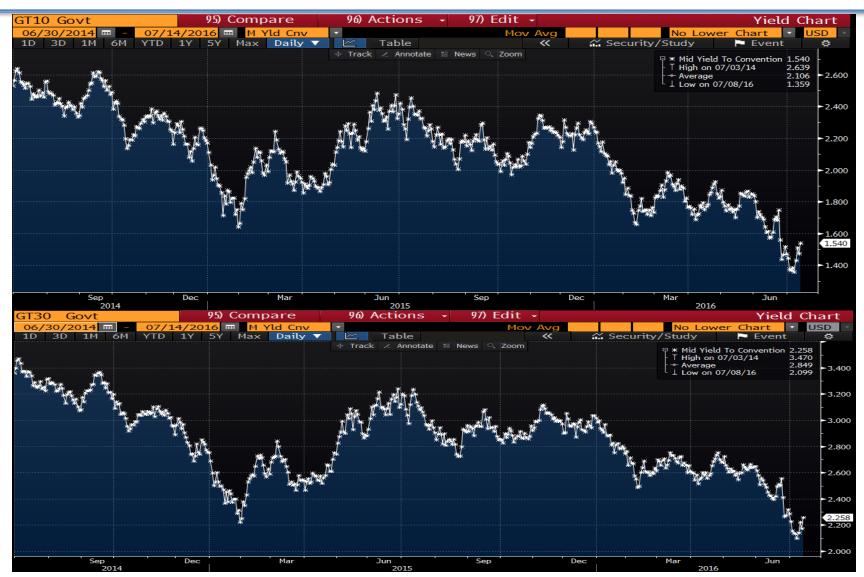
- Near term strategy has shifted slightly toward a more neutral stance, but still maintains a short duration bias
- As discussed at previous IAC meetings, the costs of maintaining a defensive position are weaker relative returns during a rate decline
- While our IG Cash F.I. outperformed the benchmark, the short duration gap resulted in Core trailing the benchmark

Short Term Portfolio (STIF) Rate History





Intermediate and Long Treasury Yields Decline in FY 15-16



SOURCE: Bloomberg

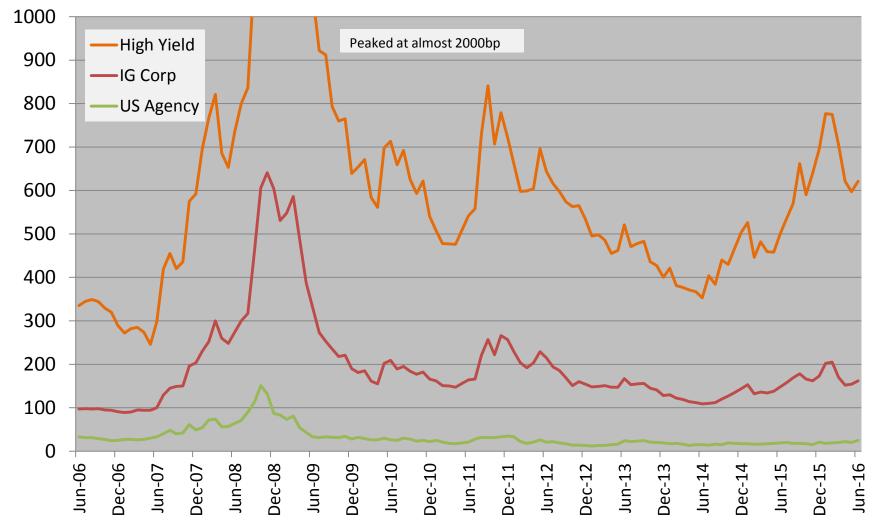


The Bond Market Gets It Wrong Again

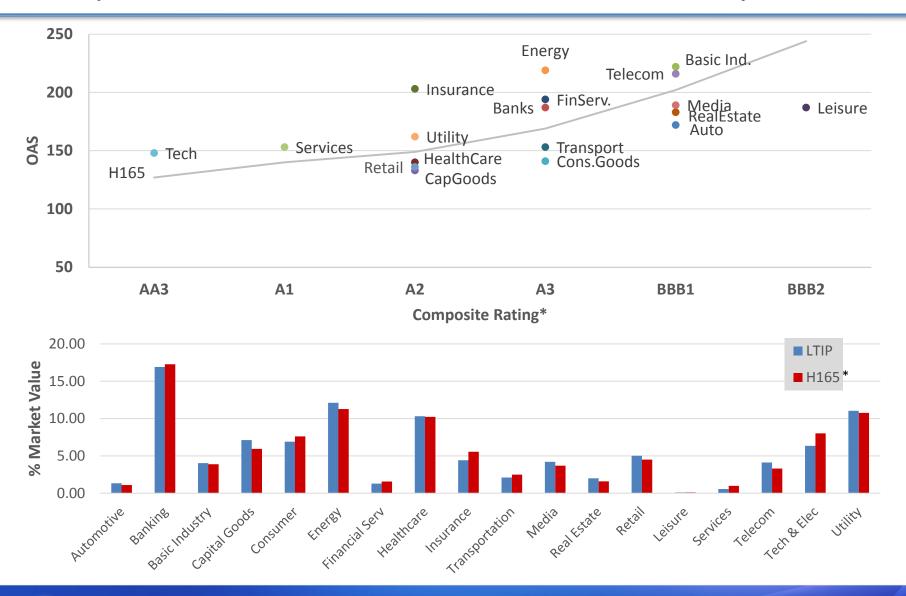
	2 Yr	10 Yr	30 Yr		
Feb. 2014 (IAC) - Actual	0.31%	2.67%	3.65%		
Forecast for June 2015	1.09% (+0.78%)	3.61% (+0.94%)	4.41% (0.76%)		
Actual Rates - June 2015	0.65%	2.35%	3.12%		
Actual Change	+0.34%	-0.32%	-0.53%		
March 2015 (IAC) - Actual	0.60%	2.07%	2.69%		
Forecast for 2016	1.95% (+1.35%)	3.01% (+0.94%)	3.58% (+0.89%)		
Actual Rates – June 2016	0.58%	1.47%	2.58%		
Difference	-0.02%	-0.60%	-0.41%		

Fixed Income Credit Markets

10 Year Spread History



Corporate Relative Value and LTIP Allocation by Sector





Investment Grade Fixed Income Discussion Items

- Historically low rates (again)
- Comfort level with short relative duration position?
 - Costs of maintaining position (absolute vs. relative returns)
- Limited conviction on timing/pacing of rate increases
- Hidden Illiquidity in Investment Grade Credit
 - IG Cash position could serve as liquidity provider in a dislocation
- Transfer of non-pension assets from Core Fixed Income
 - 144a eligibility
- Negative to zero global interest rates impact on the relative value of US Treasury market

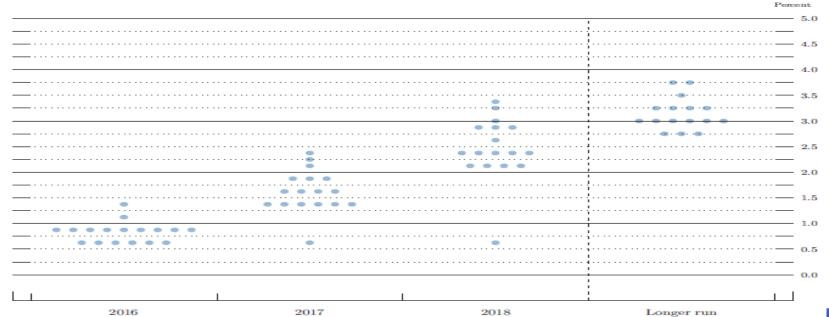
FOMC Projections

Economic Projections of Federal Reserve Board Members and Federal Reserve Bank Presidents, June 2015

Advance release of table 1 of the Summary of Economic Projections to be released with the FOMC minutes

Percent

Variable	Central tendency ¹				Range ²			
variable	2015	2016	2017	Longer run	2015	2016	2017	Longer run
Change in real GDP March projection		2.4 to 2.7 2.3 to 2.7	2.1 to 2.5 2.0 to 2.4		1.7 to 2.3 2.1 to 3.1	2.3 to 3.0 2.2 to 3.0	2.0 to 2.5 1.8 to 2.5	1.8 to 2.5 1.8 to 2.5
Unemployment rate							4.8 to 5.5 4.8 to 5.5	
PCE inflation			1.9 to 2.0 1.9 to 2.0				1.7 to 2.2 1.7 to 2.2	
Core PCE inflation ³ March projection			1.9 to 2.0 1.8 to 2.0	i			1.7 to 2.2 1.7 to 2.2	i



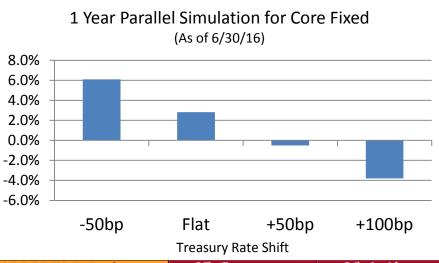


Modest Rate Increases Expected in the Near Term (Again)

Rate		Market	Yield	Q3 16	Q4 16	Q1 17	Q2 17	Q3 17	Q4 17		
United States											
US 30-Year				2.26	2.37	2.50	2.61	2.72	2.79	2.89	
US 10-Year				1.54	1.60	1.75	1.89	1.99	2.09	2.22	
US 2-Year				0.69	0.73	0.85	1.00	1.13	1.37	1.45	
US 3-Month Libor				0.67	0.66	0.78	0.91	1.07	1.21	1.44	
Federal Funds Target Rate - Upper Bound				0.50	0.55	0.70	0.80	0.95	1.05	1.20	
Federal Funds Target Rate - Lower Bound			0.25	0.29	0.44	0.54	0.71	0.80	0.97		
2 Year - 10 Year Spread			0.85	0.87	0.90	0.90	0.86	0.72	0.77		
95) Chart Analysts 96) Forecast His			stogram		Bond Yield Forecasts: Analysts						
United States	_				Q3 16	Q4 16	Q1 17	Q2 17	Q3 17	Q4 17	
US 10-Year	•	Bloomberg Wgt Avg			1.60	1.75	1.89	1.99	2.09	2.22	
		Implied Forward Yi	eld		1.59	1.63	1.66	1.70	1.73	1.76	
Market Yield 1.54	Median Forecast			1.58	1.70	1.85	1.93	2.00	2.13		
	Average Forecast			1.60	1.75	1.89	1.99	2.09	2.22		
	High Forecast			2.20	2.45	2.77	2.90	3.15	3.60		
	Low Forecast			1.20	1.15	1.20	1.25	1.30	1.20		
Recent Updates Responses				62	62	61	60	55	52		
•		Responses									
No Update Since	Last										
•	Last	Jul. Survey Median			1.58	1.70	1.85	1.93	2.00	2.13	
No Update Since	Last				1.58 2.00	1.70 2.11 -0.41	1.85 2.30 -0.45	1.93 2.40 -0.48	2.00 2.50 -0.50	2.13	



Fixed Income Expectations



- Expectations are for rates to rise modestly into 2017
- Risks of material near term inflation are very limited
- Return expectations over the next five years remain in the 2% to 4% range





DISCLAIMER

The IG Fixed Income Benchmark is comprised 10% iMoneyNet First Tier Institutional Money Market Funds Net Index and 90% custom BOAML Core Investment Grade Index*. The custom BOAML core index comprised of the following weightings: 30% BOAML 5+ Years Governments, 35% BOAML 5+ Years Investment Grade Corporates, and 35% BOAML Mortgage Master.

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