

November 2018

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Representing the firm:

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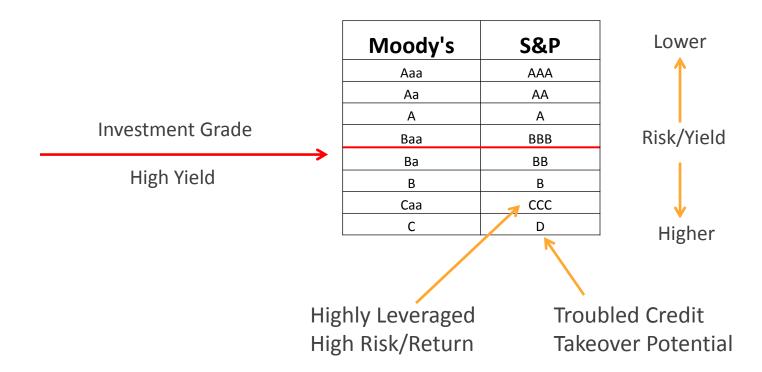


### **High Yield Bonds Defined**

- High Yield bonds are issued by companies that do not qualify for "investment grade" ratings by one or more
  of the major ratings agencies (Moody's, S&P, and Fitch).
- These issuers must pay a higher interest rate in order to attract investors to compensate them for the risk associated with investing in organizations of lower credit quality.
- Low correlation with other parts of the bond market
- Often perform well in a rising interest rate environment
  - Investment Grade bonds trade on interest rates and rate expectations. High Yield tends to trade on credit and economic sensitivity.



# **U.S. High Yield Bond Market**





#### **Fixed Income Yields and Returns**

As of September 30, 2018

	Yield		Return			Yield		Return					
U.S. Treasuries	9/30/2018	12/31/2017	2018 YTD	Avg. Maturity	Correlation to 10-year	Correlation to S&P 500	Sector	9/30/2018	12/31/2017	2018 YTD	Avg. Maturity	Correlation to 10-year	Correlation to S&P 500
2-Year	2.81%	1.89%	0.12%	2 years	0.71	-0.30	Convertibles	5.85%	6.35%	8.35%	-	-0.28	0.89
5-Year	2.94%	2.20%	-1.35%	5	0.92	-0.28	Floating Rate	3.10%	2.05%	2.06%	3.2	-0.33	0.38
TIPS	0.91%	0.44%	-0.84%	10	0.56	0.23	High Yield	6.24%	5.72%	2.57%	6.0	-0.22	0.69
10-Year	3.05%	2.40%	-3.73%	10	1.00	-0.29	MBS	3.59%	2.91%	-1.07%	7.8	0.81	-0.10
30-Year	3.19%	2.74%	-6.55%	30	0.93	-0.31	Broad Market	3.46%	2.71%	-1.60%	8.4	0.87	0.02
							Corporates	4.07%	3.25%	-2.33%	10.9	0.52	0.29
							Municipals	2.76%	2.26%	-0.66%	9.9	0.55	-0.10

Source: Barclays, Bloomberg, FactSet, Standard & Poor's, U.S. Treasury, J.P. Morgan Asset Management. Sectors shown above are provided by Bloomberg and are represented by – Broad Market: U.S. Aggregate; MBS: U.S. Aggregate Securitized - MBS; Corporate: U.S. Corporates; Municipals: Muni Bond 10-year, High Yield: Corporate High Yield; TIPS: Treasury Inflation Protection Securities (TIPS); Floating Rate: FRN (BBB); Convertibles: U.S. Convertibles Composite. Yield and return information based on bellwethers for Treasury securities. Sector yields reflect yield to worst. Convertibles yield is based on US portion of Bloomberg Barclays Global Convertibles. Correlations are based on 10-years of monthly returns for all sectors. Change in bond price is calculated using both duration and convexity according to the following formula: New Price = (Price + (Price \* - Duration \* Change in Interest Rates))+(0.5 \* Price \* Convexity \* (Change in Interest Rates)\*2). Chart is for illustrative purposes only. Past performance is not indicative of future results.

\*\*Guide to the Markets - U.S. Data are as of September 30, 2018.\*\*



#### **Fixed Income Sector Returns**

As of September 30, 2018

											2008	- 2017
2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	YTD	Ann.	Vol.
Treas.	High Yield	EMD LCL.	TIPS	EMD USD	High Yield	Muni	Muni	High Yield	EMD LCL.	High Yield	High Yield	High Yield
13.7%	58.2%	15.7%	13.6%	17.4%	7.4%	8.7%	3.8%	17.1%	15.2%	2.6%	8.0%	21.2%
MBS	EMD USD	High Yield	Muni	EMD LCL.	MBS	Corp.	MBS	EMD USD	EMD USD	Muni	EMD USD	EMD LCL.
8.3%	29.8%	15.1%	12.3%	16.8%	-1.4%	7.5%	1.5%	10.2%	10.3%	-0.7%	7.3%	13.0%
Barclays Agg	EMD LCL.	EMD USD	Treas.	High Yield	Corp.	EMD USD	EMD USD	EMD LCL.	High Yield	TIPS	Corp.	EMD USD
5.2%	22.0%	12.2%	9.8%	15.8%	-1.5%	7.4%	1.2%	9.9%	7.5%	-0.8%	5.6%	11.6%
Muni	Corp.	Corp.	Corp.	Corp.	Asset Affec.	MBS	Treas.	Corp.	Corp.	MBS	Asset Alloc.	Corp.
1.5%	18.7%	9.0%	8.1%	9.8%	-1.9%	6.1%	0.8%	6.1%	6.4%	-1.1%	5.0%	6.8%
Asset	Asset AH●c.	Asset	Asset	Asset All C.	Barclays Agg	Barclays Agg	Barclays Agg	Asset	Muni	Asset Alloc.	Muni	TIPS
0.1%	14.7%	7.9%	8.1%	7.4%	-2.0%	6.0%	0.5%	4.7%	5.8%	-1.5%	4.9%	6.6%
TIPS	TIPS	Barclays Agg	Barclays Agg	TIPS	Muni	Asset Allec.	Asset Alboc.	TIPS	Asset	Barclays Agg	Barclays Agg	Treas.
-2.4%	11.4%	6.5%	7.8%	7.0%	-2.2%	5.5%	-0.3%	4.7%	5.3%	-1.6%	4.0%	5.4%
Corp.	Muni	TIPS	EMD USD	Muni	Treas.	Treas.	Corp.	Barclays Agg	Barclays Agg	Treas.	MBS	Asset Alloc.
-4.9%	9.9%	6.3%	7.3%	5.7%	-2.7%	5.1%	-0.7%	2.6%	3.5%	-1.7%	3.8%	4.9%
EMD LCL.	Barclays Agg	Treas.	MBS	Barclays Agg	EMD USD	TIPS	TIPS	MBS	TIPS	Corp.	EMD LCL.	Muni
-5.2%	5.9%	5.9%	6.2%	4.2%	-5.3%	3.6%	-1.4%	1.7%	3.0%	-2.3%	3.6%	4.5%
EMD USD	MBS	MBS	High Yield	MBS	TIPS	High Yield	High Yield	Treas.	MBS	EMD USD	TIPS	Barclays Agg
-12.0%	5.9%	5.4%	5.0%	2.6%	-8.6%	2.5%	-4.5%	1.0%	2.5%	-3.0%	3.5%	3.0%
High Yield	Treas.	Muni	EMD LCL.	Treas.	EMD LCL.	EMD LCL.	EMD LCL.	Muni	Treas.	EMD LCL.	Treas.	MBS
-26.2%	-3.6%	4.0%	-1.8%	2.0%	-9.0%	-5.7%	-14.9%	-0.1%	2.3%	-8.1%	3.3%	3.0%

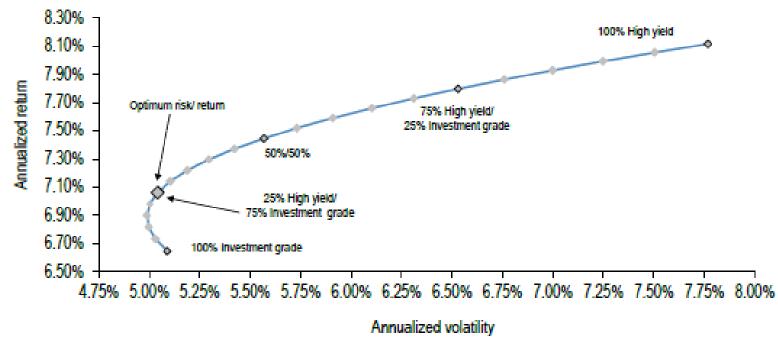
Source: Barclays, Bloomberg, FactSet, J.P. Morgan Global Economic Research, J.P. Morgan Asset Management.

Past performance is not indicative of future returns. Fixed income sectors shown above are provided by Bloomberg unless otherwise noted and are represented by Broad Market: Bloomberg Barclays U.S. Aggregate Index; MBS: Bloomberg Barclays US Aggregate Securitized - MBS Index; Corporate: Bloomberg Barclays U.S. Aggregate Credit - Corporates - Investment Grade; Municipals: Bloomberg Barclays Munipal Bond 10-Year Index; High Yield: Bloomberg Barclays Global U.S. Aggregate Credit - Corporate - High Yield Index; Treasuries: Bloomberg Barclays Global U.S. Treasury; TIPS: Bloomberg Barclays Global Inflation-Linked - U.S. TIPS; Emerging Debt USD: J.P. Morgan EMBIG Diversified Index; Emerging Debt LCL: J.P. Morgan EMBIG Diversified Index; Emerging Debt LCL: J.P. Morgan Debt USD, 5% in Emerging Debt LCL, 10% in High Yield, 20% in Treasuries, 5% in TIPS. Asset allocation portfolio assumes annual rebalancing. Guide to the Markets - U.S. Data are as of September 30, 2018.



# **Enhance Return Without Increasing Volatility**





Source: J.P. Morgan



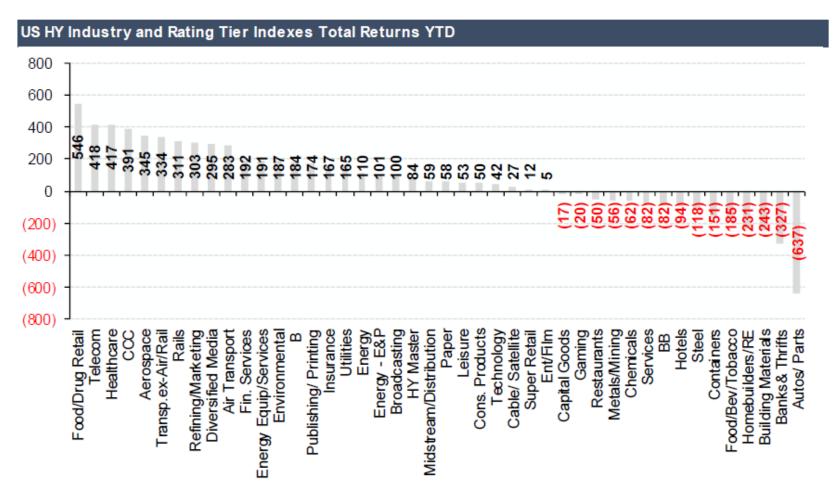
# **U.S. High Grade and High Yield Returns**

US High Grade and High Yield Comparative Total Returns													
Oct 31, 2018	Short-Term Cumulative Returns							Multi-Year Cumulative					
	YTD	1Mo	ЗМо	6Мо	9mo	1yr	2yr	3yr	5yr	10yr	15yr		
High Grade Corp.	-3.5%	-1.4%	-1.1%	-0.5%	-3.5%	-2.8%	0.6%	7.7%	15.8%	95.6%	98.6%		
AAA	-5.0%	-1.9%	-2.2%	-0.9%	-5.0%	-3.6%	-0.9%	5.8%	14.8%	52.6%	72.3%		
AA	-2.7%	-1.0%	-0.8%	-0.1%	-2.7%	-2.2%	0.0%	5.5%	13.7%	65.5%	76.8%		
Α	-3.5%	-1.1%	-1.0%	-0.4%	-3.5%	-2.9%	-0.2%	6.0%	14.4%	87.9%	85.1%		
BBB	-3.6%	-1.6%	-1.3%	-0.7%	-3.6%	-2.9%	1.5%	9.8%	17.5%	119.7%	119.6%		
High Yield Corp.	0.8%	-1.6%	-0.3%	1.1%	0.8%	0.9%	10.1%	21.3%	25.7%	188.0%	190.9%		
BB	-0.8%	-1.4%	-0.2%	0.6%	-0.8%	-0.8%	6.8%	16.3%	26.2%	174.6%	181.5%		
В	1.8%	-1.6%	-0.2%	1.4%	1.8%	1.7%	11.0%	21.0%	23.7%	153.8%	162.0%		
CCC	3.9%	-2.8%	-1.4%	2.1%	3.9%	4.6%	19.9%	42.0%	32.4%	284.2%	261.4%		

Source: CreditSights, ICE B of AM L



### U.S. High Yield Industry and Rating Tier Indexes



Source: CreditSights, ICE B of AM L Indices data through 10/31/2018



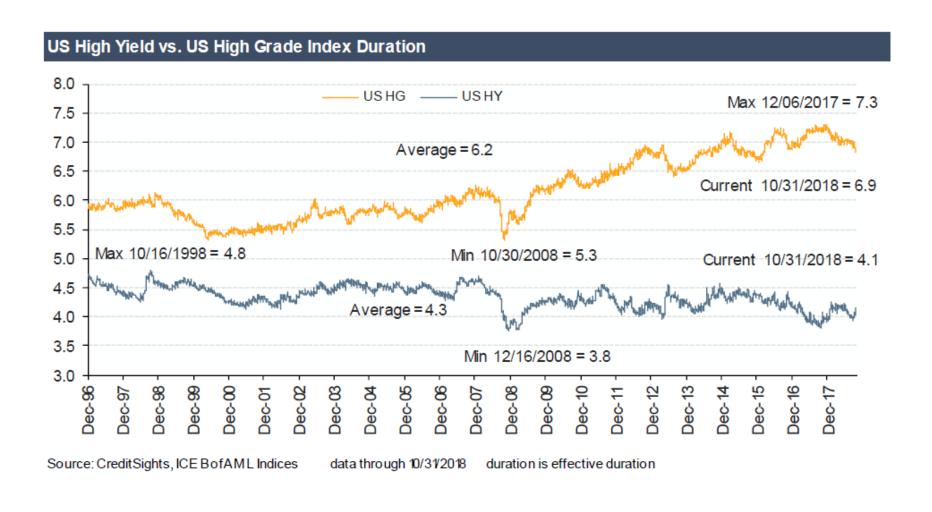
### U.S. High Grade to High Yield Quality Comparison



Source: CreditSights, ICE BofAML Indices data from 12/31/1996 through 10/31/2018 median = 362

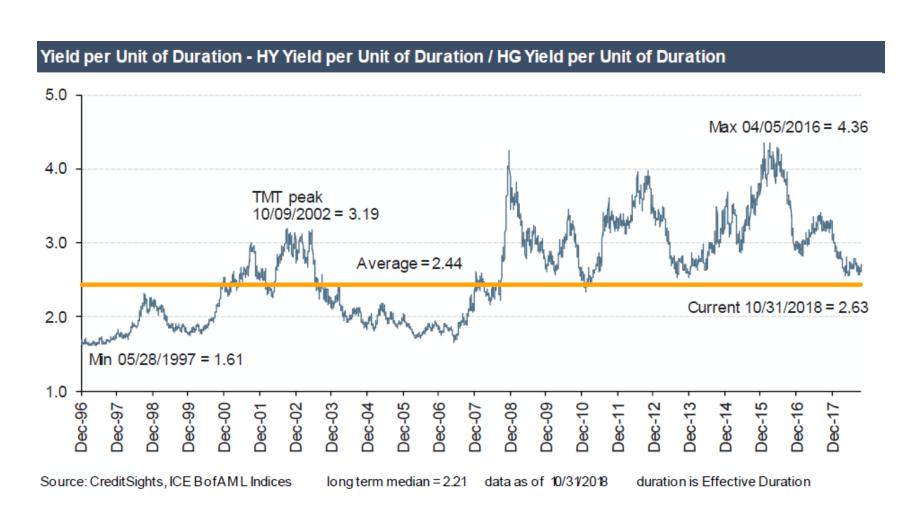


### U.S. High Yield vs. U.S. High Grade Index Duration





#### **Yield Per Unit of Duration**

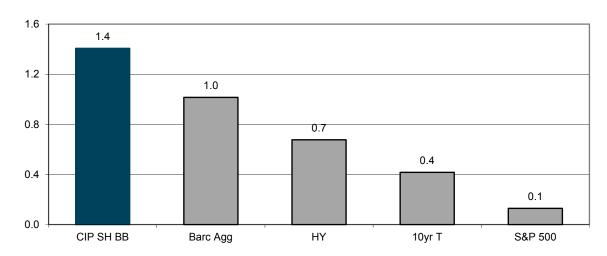




#### **Relative Yield and Risk**

Since inception 01.01.2006

#### Risk Adjusted Yield (Current Yield / Std Dev)



Past performance does not guarantee future results. Source: Chartwell Investment Partners



# **Outlook for High Yield – Points to Consider**

- Potential Tailwinds heading into 2019
  - Business friendly regulatory environment
  - Tax cuts multiplier, business and personal
  - Bi-partisan Infrastructure bill?
- Potential Headwinds heading into 2019
  - Inflation, higher interest rates
  - Strong US \$
  - Tariffs, protectionist trade policy
- Portfolio Construction
  - High Yield spreads widened 50+ bps in 2018, and the market now yields over 7.0%.
  - Higher quality and shorter duration positioning are prudent at this time.
  - A "clip the coupon" year (6.0-7.0%) should be very competitive among fixed income alternatives.

# CHARTWELL INVESTMENT PARTNERS

#### **Conclusion**

- The US High Yield Bond Market Offers:
- A large opportunity set
- High current income
- Low correlation to other bonds
- Historical performance when interest rates rise
- Portfolio diversification benefits
- Total return potential
  - Absolute and risk adjusted (Sharpe Ratio)
- Potential for compelling returns with manageable risk
  - Credit research, duration management, quality constraints, sector diversification, active management

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