Fourth Quarter 2018 Bond Market Review and Outlook



"We're in a place where we can be patient and flexible and wait and see what does evolve" Federal Reserve chairman, Powell 1/11/19 regarding future interest rate increases

These comments made by the Fed chairman exemplify the changed position of the Fed. Given the moderating growth of the global economy and some U.S. economic measures, the Fed is signaling that they can now be patient about further increases in interest rates. Powell's deputy, Richard Clarida, reinforced Powell's more sensitive outlook noting that, "moderating global growth and tighter financial conditions represent "crosswinds" to the economy" (source: Bloomberg 1/11/19). Minutes of the December meeting released on 1/9/19 document the

changed position of many officials to one of moderation in further interest rate increases, stating that the central bank "could afford to be patient about further policy firming" (source: *Bloomberg* 1/11/19).

The Fed has raised short term interest rates nine times since late 2015 with four of those increases made in 2018, three in 2017 and once in December of 2016 and 2015. Just a month ago the consensus outlook was for another three increases in 2019 to 3.25% from today's target rate of 2.5%. Now, the

Fed is signaling restraint, with a number of regional chiefs having no bias toward either higher or lower rates. At the December meeting the 2019 rate forecasts from 17 officials ranged from 2.5% to 3.5% with the median forecast at 2.8% (source: *Wall Street Journal* 1/15/19). Importantly, Chicago Fed President, Evans, observed a lack of evidence that inflation was moving noticeably above the Fed's 2% target.

The inflation data remains low. The CPI in December 2018 was 1.9% for the 12-month period. The index less food and energy rose 2.2% (source; Bureau of Labor Statistics 1/11/19).

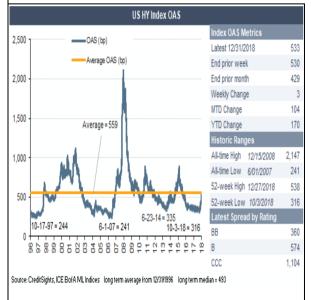
The very recent measures of business inflation showing annual price increases of 2.5% in December (Dept.of Labor 1/15/19), moderating from a peak of 3.45, in July provides justification for the Fed's more balanced approach.

Another positive for the credit markets is the central bankers' December projection of above trend economic growth for 2019. Supporting their outlook was the strong December job market report showing the economy added 312,000 nonfarm jobs (source: BLS 1/4/19). However, softening in some more interest rate sensitive sectors, such as housing, is contributing to the fed's more cautious outlook. Another Fed consideration is the moderating of growth in the global economy.

The rapidly changing macroeconomic trends and the Federal Reserve's newly adopted rate caution has led a number of strategists to recommend allocations to both Investment Grade and High Yield Corporate Bonds. The graphs and charts on pages 1 and 3 providing spread data for High Yield and Investment Grade Bonds provides additional compelling data. Yield spreads have widened near to their historical averages. Also, equity market volatility, economic uncertainty revolving around the trade disputes with China, Europe, Canada and Mexico and expected gridlock in Congress until the next election cycle in 2020 are factors driving investors to a higher "risk off" allocation.

2018 was the worst year for corporate credit since 2008, when the corporate index returned -4.94%. For the fourth quarter, the

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Yields* on 12/31/2018		Yield*			
CAM Broad Market (corporate core plus) Strategy (7.0 year	maturity; 5.7 duration)	4.90%			
CAM Investment Grade (100% corporate bonds) Strategy ((7.4 year maturity; 6.1 duration)	4.09%			
CAM High-Yield Strategy (only BB & B rated purchased) (6	5.6 year maturity; 5.2 duration)	6.62%			
CAM Short Duration Strategy (3.5 year maturity; 3.1 duration;	50% IG & 50% HY)	4.75%			
CAM Short Duration Investment Grade Strategy (3.3 year n	naturity; 3.0 duration)	3.48%			
Tax Equivalent Muni GO Bond (7 year, 2.28%) Bloomberg Barclays after 40% tax equivalency and 3-point retail price markup for small buys unde	,	2.90%			
U.S. Treasury** (10 year maturity)					
U.S. Treasury** (5 year maturity)		2.51%			
U.S. Treasury** (2 year maturity)					
* The lower of yield to maturity or yield to worst call date ** Sour	ce: Bloomberg Barclays				

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CAM's Key Strategic Elements

- Bottom-up credit analysis determines value and risk.
- Primary objective is preservation of capital.
- Larger, more liquid issues preferred.
- Target is always intermediate maturity.
- No interest rate forecasting.
- <u>All</u> clients benefit from institutional trading platform and multifirm competitive bids and offers.





CAM returns are after CAM's average management fee & all transaction costs but before any	Total Return (%)	Annualized Returns (%)						
broker, custody or consulting fees.	4Q '18	I- YEAR	3- YEARS	5- YEARS	10-YEARS			
CAM Broad Market Strategy—Net 1/3 high yield, 2/3 investment grade	-0.77	-2.37	2.77	2.38	5.85			
CAM High Yield "Upper Tier" Strategy—Net only purchase BB and B; no purchases of CCC & lower	-3.49	-3.71	3.73	0.99	7.04			
Lipper High Yield Mutual Funds Average	-5.20	-3.09	5.38	2.52	9.05			
CAM Investment Grade Strategy—Net 100% corporate bonds	0.65	-1.67	2.33	3.01	5.36			
Lipper A-rated Bond Funds Average	0.24	-2.08	2.94	3.39	5.07			
CAM Short Duration Strategy—Net 1/2 investment grade, 1/2 high yield	-0.56	0.02	3.10	0.61	4.97			
CAM Short Duration Investment Grade Strategy—Net 100% corporate bonds	0.88	0.37	1.63	1.84	4.43			

Relative Performance Review 12/31/2018

CAM's Investment Grade Strategy ("IG") produced a gross total return of 0.71% in the quarter ended December 31, 2018, compared to -0.18% for the Bloomberg Barclays U.S. Corporate Index. The 12-month return for the CAM IG strategy was -1.44% compared to the index return of -2.51%. IG's Q4 performance and 12-month performance exceeded its benchmark as BBB-rated corporate bonds underperformed in both periods relative to A-rated corporate bonds. IG's investment policy caps BBBrated bonds at 30%. The index weighting for BBB-rated bonds currently approximates 51%. IG also outperformed over 10 years and since inception.

The **High Yield Strategy** ("**HY"**) delivered a gross total return of -3.41% in the Q4 while the Bloomberg Barclays High

Yield Index returned -4.53%. The HY 12month return was -3.39% while the Bloomberg Barclays High Yield Index returned -2.08%. HY outperformed for the quarter because of the underperformance in "CCC" and lower credit subsectors of the Index. HY is always underweight these low credit subsectors believing their credit profiles and price volatility are inappropriate for many investors. HY trailed in the 12-month period in part because of underperformance in the Aerospace Defense and Automotive industry groups and our longer duration, which also is a function of not owning the lowest rated subsectors.

Our **Broad Market Strategy** ("**BM**") – a 67%-33% blend of IG-HY bonds – produced a gross total return of -0.70% for the quarter ended December 31 compared to -1.64% for its Bloomberg Barclays blended benchmark. The 12-month return for the CAM Broad Market

strategy was -2.09% compared to blended index return -2.35%. It is important to note that our BM strategy achieves its BBB average credit quality via a barbell strategy of higher and lower rated securities. Our outperformance relative to the Weighted Benchmark is due to the underperformance of the lowest rated investment grade and high yield cohorts.

The CAM Short Duration Strategy ("SD") blends equal weights of IG and HY short duration bonds. The strategy's gross total return in the quarter ended December 31 was -0.48% while its benchmark, a similar blend of the intermediate components of Bloomberg Barclays IG and HY corporates, returned -1.74%. At December 31, the 12-month return was 0.36% compared to the blended benchmark return of -0.32%.

The Short Duration Investment Grade Strategy (SD-IG) slightly outperformed in the quarter ended December 31, 2018 compared to its benchmark, the Bloomberg Barclays U.S. Credit 1-5 Index. SD-IG returned 0.94% compared with the benchmark's 0.93%. Over a 12-month period, SD-IG delivered 0.61% versus a benchmark return of 1.11% and outperformed over 5 years, 7 years, and since inception.

Bloomberg Barclays Bond Indices Returns vs. CAM Gross (annualized %)

Periods ended 12/31/2018	10-yrs	20-yrs
U.S. Aggregate	3.48	4.55
U.S. Corporate	5.92	5.24
CAM Investment Grade Strategy	5.62	5.30

Better Asset Allocation Might Result from More Exacting Analysis

The chart to the right shows that BB rated bonds returned approximately 50% of S&P 500 stocks for the 5-year period, 70% over 10 years, and exceeded the returns of the S&P 500 over the last 20-years. Lower rated CCC bonds have underperformed the S&P 500 for the 5-year period, while the lowest rated (CC & D) have produced negative returns. Both BB and B rated bonds outperformed the Bloomberg Barclays US Aggregate Index for all periods

The chart also indicates that CCC rated securities underperformed BB rated and B rated bonds for the 20-year period. For shorter 5-year and 10-year periods, the lower credit CCC cohort outperformed. Not shown in the table is the pronounced and extreme volatility that has characterized the CCC sector. For example, during 2008, when the High Yield Index was down 26%, CCC rated bonds were down 44%, and during 2009, the Index was up 58% while CCC bonds were up 91%. In each calendar year since 1997, CCC rated bonds ranked either best or worst in Credit Sights Annual Excess Return Rankings for US corporate credit tiers, a trend that continued in 4Q18. The CCC longer term results were achieved with significantly more volatility than the Index.

Finally, not only have BB rated bonds approximated the S&P 500 for the 20-year period, but they have done so with about half the volatility of that Index (Ibbotson), suggesting that better credit quality high yield bonds deserve consideration as a core holding in an investor's portfolio allocation.

Performance of High-Yield Bonds by Credit Quality

(periods ended 12/31/2018) Source: Credit Suisse First Boston (annualized %)

High-Yield Bond Sectors	5-years	10-years	20-years
BB-rated bonds	4.18	9.29	7.37
B-rated bonds	2.91	9.72	6.26
CCC-rated bonds	3.80	14.07	5.91
CC & D-rated bonds	-12.69	2.18	-5.73

Performance of Other Asset Classes

(periods ended 12/31/2018) Source: Bloomberg Barclays & Lipper

S & P 500 Stocks	8.49	13.07	5.60
Bloomberg Barclays U.S. Aggregate	2.52	3.48	4.55

Yield Spreads Over U.S. Treasuries:

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Absolute spreads for all credit subsectors approximate the long-term averages but have risen from the lows of IQ2018. The December 31 spread levels (indicated at the right) enhance the value of corporate bonds versus U.S. Treasuries. The 10-year U.S. Treasury ended the Q4 at 2.69% compared to recent year-ends: 2.45% (2016) and 2.41% (2017). With the U.S. Treasury yield curve flatter following Federal Reserve actions to remove monetary policy accommodation, active corporate bond managers may find opportunistic values with credit spreads wider than earlier this year.

*1981-2018 Average **1987-2018 Average

Credit Rating	Average Spread	12/31/2018	12/31/2017	12/31/2016	12/31/2015	Tightest This Decade
A *	1.20%	1.18%	0.73%	1.01%	1.22%	0.71%
BBB*	1.87%	1.97%	1.24%	1.60%	2.24%	1.15%
BB**	3.52%	3.54%	2.11%	2.70%	4.17%	1.30%
B**	5.30%	5.31%	3.43%	3.82%	6.54%	2.28%
CCC**	10.14%	9.89%	6.15%	8.07%	13.51%	3.78%





(Continued from page 1)

Bloomberg Barclays Corporate Index posted a total return of -0.18%. This compares to CAM's quarterly gross total return of +0.71%. For the full year 2018, the corporate index total return was -2.51% while CAM's gross return was -1.44%. CAM outperformed the corporate index for the full year due in part to our cautious stance toward BBB-rated credit and due to our duration, which is shorter relative to the index.

In the fourth quarter of 2018, the Bloomberg Barclays US Corporate High Yield Index ("Index") return was -4.53%. For the year, the

Index return was -2.08%. The 10 year US Treasury rate ("10 year") spent most of quarter going lower. It finished at 2.69% which was down 0.37% from the end of the third quarter. While generally range bound between 2.80% and 3.10% for the majority of the year, the 10 year popped both the top and bottom of the range during the fourth quarter as volatility made a comeback. During the quarter, the Index option adjusted spread ("OAS") widened a massive 210 basis points moving from 316 basis points to 526 basis points. For context, the Index hasn't posted an OAS north of 500 basis points in over two years. During the fourth quar-

ter, every quality grouping of the High Yield Market participated in the spread widening as BB rated securities widened 148 basis points, B rated securities widened 219 basis points, and CCC rated securities widened 408 basis points.

In the fourth quarter of 2018, the Bloomberg Barclays US Corporate High Yield Index ("Index") return was -4.53%, and the CAM High Yield Composite gross total return was -3.41%. For the year, the Index returned -2.08%, and the CAM Composite returned -3.39%. The S&P 500 stock index return was -4.39% (including dividends reinvested) for 2018.

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Footnotes and disclosure

Cincinnati Asset Management, Inc., ("CAM") an independent privately held corporation established in 1989, is registered with the United States Securities and Exchange Commission as an investment advisor. The CAM High Yield, Investment Grade, Broad Market, and Short Duration composites counts are included after they are substantially invested.

Returns are calculated monthly in U.S. dollars and include reinvestment of dividends and interest. Figures for periods of less than one year are cumulative returns. All other figures represent average annual returns. Past performance is no guarantee of future results.

When compared to mutual funds' performance, CAM results are after deduction of all transaction costs and CAM advisory fees. CAM advisory fees used are the composite averages. Accounts managed through brokerage firm programs usually will include additional fees. "Net of fees" herein refers only to CAM's management fee. Returns audited annually. Most recent audit available upon request.

Mutual fund averages and S&P 500, as published quarterly in Barron's as supplied by Lipper Analytics.

The indices and information shown for comparative purposes are based on or derived from information generally available to the public from sources believed to be reliable. No representation is made to its accuracy or completeness.

High yield bonds may not be suitable investments for all individuals. Before investing a thorough reading of all materials and consultation with an independent third party financial consultant may be appropriate. Fixed Income securities may be sensitive to changes in prevailing interest rates. When rates rise the value generally declines. For example, a bond's price drops as interest rates rise. For a depository institution, there is also risk that spread income will suffer because of a change in interest rates. The Indices are referred to for informational purposes only and the composition of the Index is different from the composition of the accounts included in the performance shown above. Index returns do not reflect the deduction of fees, trading costs or other expenses.

This material was not intended or written to be used, and it cannot be used, by any taxpayer, for the purpose of avoiding penalties that may be imposed on the taxpayer under U.S. federal tax laws.

This information is intended solely to report on investment strategies and opportunities identified by CAM. Opinions and estimates offered constitute our judgment and are subject to change without notice, as are statements of financial market trends, which are based on current market conditions. This material is not intended as an offer or solicitation to buy, hold or sell of any financial instrument. References to specific securities and their issuers are for illustrative purposes only and are not intended to be, and should not be interpreted as, recommendations to purchase or sell such securities.



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Finally, the chart on the right provides relative performance rankings. Returns normally rise as the investor assumes more risk. Historically, high yield has outperformed high grade in 12 of 22 years represented in the chart. Also, the high grade corporate sector similarly outperformed the U.S. Government sector in 13 of 22 calendar years.

Relative performance is one useful measure. Perhaps more significant are the differences in actual wealth creation documented through the cumulative total returns. Credit Sights data shows the investor over the past 15-years fared well in the U.S. Corporate Bond sectors. The cumulative returns through 2018 were:

High Grade Corporates 97.7%

High Yield Corporates 171.7%

U.S. Treasuries 68.3%

U.S. Mortgages 78.2%

Cash 20.2%

FTSE EUROTOP 100 stocks 110.0%

S&P 500 Stocks 207.0%

(source: CreditSights 1/2/19).

It appears that in the fixed income sector allocations to U.S. Corporates, both High Grade and High Yield were preferable to Treasuries, Mortgages and Cash, especially for the long term investor. Also, of note is their performance relative to the top 100 capitalized European equities, the FTSE Eurotop 100 index.

We appreciate your confidence. Please contact us anytime we may be of service.

Sharpe Ratios (risk & reward relative value) Inception-Q4 2018

CAM Investment Grade Strategy 0.40 Bloomberg Barclays U.S. Corp Bonds 0.37

CAM High Yield Strategy 0.52 Bloomberg Barclays High Yield Corp Bonds 0.49

CAM Short Duration 0.49

Bloomberg Barclays Weighted Benchmark (1/2 Interm. HY & 1/2 U.S. Interm. Credit I-5) 0.34

CAM Short Duration IG Strategy 1.22 Bloomberg Barclays U.S. Interm. Credit 1-5 Yr 1.31

CAM Broad Market Strategy 0.75 Bloomberg Barclays Weighted Benchmark (2/3 Corporate and 1/3 High Yield) 0.75 An important objective for all Cincinnati Asset Management investment strategies is to deliver superior risk-weighted returns. A quantitative indication of our success is the Sharpe Ratio that calculates total return per unit of risk. The data on the left indicate we have been largely successful. Sharpe Ratios of the Investment Grade and High Yield Strategies exceeded their respective benchmarks by approximately 8% and 6%, respectively. The Short Duration Strategy's Sharpe Ratio exceeded its benchmark's ratio by 31%, and Short Duration Investment Grade approximated its benchmark. The Broad Market Strategy produced a Sharpe Ratio equal to the benchmark's ratio.

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1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
58P 500	CCMP	CCMP	REITS	REITS	EM Sov	Equity	REITS	Equity	REITS	EM	Gov't	Eguity	REITS	Munis	REITS	CCMP	REITs	Prefs	Russell 2000	EM Equity	Cash
33.3%	40.2%	86.1%	26.4%	13.9%	13.7%	55.8%	316%	34.3%	35.1%	Equity 39.7%	14.0%	78.9%	27.9%	112%	19.7%	40.2%	28.0%	7.6%	213%	37.8%	18%
Mid	S&P	EM	Mid.	High	US	CCMP	EM	Mid	EM.	CCMP		High	Russell	US	EM	Russell	Prefs	CCMP	Mid		
Cap	500	Equity	Cap	Grade	Gov't	50.8%	Equity	Cap	Equity	10.7%	Mtges 8.3%	Yield	2000	Gov't	Equity	2000	15.4%	7.%	Cap	CCMP 29.7%	Munis 10%
32.2%	28.5%	67.1%	17.5%	10.7%	11.6%		26.0%	12.6%	32.5%		0.010	57.5%	26.8%	9.8%	18.6%	38.8%	-		20.7%	(Company)	1471
Russell 2000	Mid Cap	Conv	Munis	Prefs	Munis	Russell 2000	Russell 2000	REITS	Russell 2000	Gov't	Cash	Loans	Mid	REITs	EM Sov	Mid Cap	CCMP	Munis	High Yield	500	Mtger
22.4%	19.1%	36.0%	17.1%	9.8%	10.7%	47.3%	18.3%	12.2%	18.3%	9.1%	17%	52.5%	26.6%	8.3%	18.3%	33.5%	14.8%	3.6%	17.5%	218%	10%
CCMP	Conv	EM	Prefs	Miges	High	REITS	Mid	EM	SAP	Mid	Munis	Conv	EM	EM	Mid	S&P	S&P	REITS	SAP	Mid	US
22.2%	2.2%	Sov 23.6%	16.2%	8.1%	Grade	37.1%	Cap	Sov	500	Cap	-4.0%	45.6%	Equity	Sov	Сар	500	500	2.8%	500	Cap	Gov't
	US	Russell	EM	EM	10.2% EM	Mid	16.5% EM	12.0% EM	5.8%	8.0%	High		19.2%	8.2% High	17.8%	32.4%	13.7%		12.0%	16.2%	0.8%
REITS	Gov't	2000	Sov	Corp	Corp	Cap	Sov	Corp	Conv	Mitges	Grade	CCMP	CCMP	Grade	CCMP	Conv	Conv	Mtges	Conv	Conv	Conv
20.3%	10.0%	213%	14.7%	7.0%	9.4%	35.6%	118%	5.7%	12.0%	7.0%	-6.8%	45.3%	18.1%	7.5%	17.7%	26.6%	10.0%	15%	11.9%	16.0%	0.7%
Conv	High	S&P	US	US	Mtges	S&P	S&P	Loans	High	EM	EM	EM	Conv	Mtges	Russell	High	Munis	S&P	EM	Russell	Loans
15.5%	Grade 8.7%	500 210%	Gov't 13.4%	Gov't 6.7%	9.4%	500 28.7%	10.9%	5.3%	Yield 118%	5ov 6.4%	-10.2%	Corp 38.3%	15.7%	6.1%	2000	Yield 7.4%	9.8%	500	Equity 118%	2000	0.6%
EM		Mid		EM	10000	High	High	S&P		SAP	EM	Mid	High	High	S&P		Mid	EM.	THE REAL PROPERTY.		EM
Sov	Mtges 7.2%	Cap	Miges 113%	Sov	Prefs 7.7%	Yield	Yield	500	CCMP 10.9%	500	Corp	Cap	Yield	Yield	500	Loans 5.4%	Cap	Corp	Loans 10.4%	Prefs 10.6%	Corp
15.1%	1.00.70	14.7%		4.8%	1	28.1%	10.9%	4.9%		5.6%	-17.5%	37.3%	15.2%	4.4%	16.0%	5.476	9.7%	13%			-13%
High Yield	Munis	Corp	Corp	High Yield	REITs	EM Sov	CCMP	Russell 2000	EM Sov	Cash	Prets	REITs	S&P 500	Corp	High Yield	REITs	High Grade	US Gov't	Corp	EM Sov	High Grade
13.3%	7.1%	14.5%	9.8%	4.5%	3.8%	27.6%	10.3%	4.5%	10.6%	4.8%	-25.2%	28.0%	15.1%	42%	15.6%	2.9%	7.5%	0.8%	9.8%	10.0%	-2.2%
Munis	Prefs	Cash	High	Munis	Loans	Conv	EM	Munis	Mid	High	High	EM	Prefs	Prefs	EM	Cash	EM	EM	EM	REITS	High
10.9%	6.7%	4.7%	Grade 9.86	4.5%	2.6%	23.0%	Corp 8.9%	3.9%	Cap 10.3%	Grade 4.6%	Yield -26.4%	Sov 27.2%	13.7%	4.7%	Corp 15.5%	0.0%	5ov 7.3%	Sov 0.6%	Sov 9.5%	8.7%	Yield -2.3%
High	2000000	4000000	100 March 1887	023454	75-25-12-S	EM		12000		EM	Contract of	Russell	EM	S&P		EM		NAME OF TAXABLE PARTY.		High	10000
Grade	Loans 5.6%	Loans 4.7%	Cash 6.0%	Cash 4.1%	Cash 17%	Corp	Conv 8.3%	Cash 3.0%	Prefs 8.1%	Corp	-29.3%	2000	Corp	500	Conv 13.6%	Corp	Mitges 6.5%	Loans 0.1%	9.0%	Yield	-2.8%
10.4%	0.070	10000	0.010	4.174		14.5%	0.570		0.150	4.4%	20.076	27.1%	12.8%	2.1%	0.074	-13%		0.110	0.030	7.5%	12.076
Prefs	Cash	High Yield	Loans	Loans	High Yield	Loans	Munis	US Gov't	Loans	Conv	Conv	58P 500	EM Sov	Loans	Prefs	Mtges	US Gov't	Cash	REITs	Corp	REITS
10.0%	5.1%	2.5%	5.1%	3.3%	-19%	9.8%	5.5%	2.8%	6.9%	3.9%	-29.4%	26.4%	2.5%	15%	13.6%	-14%	6.0%	0.0%	8.6%	7.3%	-4.0%
US	High	Mitges	Russell		Conv	Prefs	High	High	EM	Munis	Russell	Prefs	Loans	Cash	High	High	Russell	High	High	High	Prefs
Gov't	Yield	16%	2000	2000	-3.1%	9.4%	Grade	Yield	Corp	3.3%	-33.8%	20.1%	10.4%	0.7%	Grade	Grade -15%	2000	Grade	Grade	Grade	-4.3%
9.6%	3.0% Russell	High	-3,1% High	2.5% Mid	EM	High	5.4%	2.7%	6.6%	High	-33.8% Mid	High	High	No. of Contrast of	10.4%	EM	4.9% EM	-0.6%	6.0%	6.5%	S&P
Mtges	2000	Grade	Yield	Cap	Equity	Grade	Loans	Mitges	Miges	Yield	Cap	Grade	Grade	CCMP	Loans	Equity	Corp	Conv	Prefs	Munis	500
9.3%	-2.5%	-19%	-5.1%	-0.6%	-5.9%	8.3%	5.3%	2.6%	5.3%	2.2%	-36.2%	19.8%	9.5%	-0.8%	9.8%	-2.3%	3.7%	-12%	2.3%	5.4%	-4.4%
Loans	EM	US	Conv	EM	Mid	Munis	Prefs	CCMP	Munis	Loans	S&P	Munis	US	Mid	Munis	Munis	High	Mid	Miges	Loans	EM
7.5%	50v -15.3%	Gov't	-7.5%	Equity -2.4%	-14.5%	6.2%	5.1%	2.86	5.0%	2.0%	500 -37.0%	14.5%	Gov't 5.9%	-17%	7.3%	-2.9%	Yield 2.5%	-2.2%	17%	4.3%	Sov -4.6%
281			S&P		Russell			High	E SHA	Russell						US		Russell	US	72.7	Russe
Cash 5.3%	-17.5%	Prefs -4.4%	500	Conv -2.9%	2000	Mtges 3.3%	Mtges 4.7%	Grade	Cash 4.8%	2000	REITs -37.7%	M tges 5.8%	Mtges 5.7%	Conv -3.8%	M tges 2.6%	Gov't	Loans 18%	2000	Gov't	Mtges 2.4%	2000
			-9.1%		-20.5%			2.0%		-16%	-07.17.70	0.074	5.7.79			-3.3%	1076	-4.4%	17%		-110%
EM Equity	EM Equity	REITs	EM Equity	58P 500	58P 500	US Gov't	Gov't	Prefs	High Grade	Prefs	CCMP	Cash	Munis	Russell 2000	US Gov't	Prefs	Cash	High Yield	Munis	US Gov't	Mid
-116%	-26.0%	-4.6%	-30.7%	-11.9%	-22.1%	2.3%	3.5%	10%	4.4%	-113%	-40.0%	0.1%	2.3%	4.2%	2.2%	-3.7%	0.0%	-4.6%	0.4%	2.4%	-11.1%
EM	EM	Munic	coun	CCMP		Cost	-	Com	US	REITs	EM	US	Cook	EM		EM	EM	EM	Cook		EM
Corp	Corp	Munis -6.3%	-39.2%		-312%	Cash 11%	Cash 13%	-0.2%	Gov't	-15.7%	Equity	Gov't	Cash 0.5%	Equity	Cash 0.1%	Sov	Equity	Equity	Cash 0.2%	Cash 0.8%	Equity
na	na		D-4444				TAL 5		3.1%		-53.2%	-3.7%	-	-18.2%		-5.8%	-2.0%	-14.6%			-14.5%

Source: CreditSights, ICE BofAML, S&P/LSTA, Bloomberg, EM Equity is USD MSCI Emerging Market Index, Mid: Cap is S&P Mid: Cap 400 Index, CCMP = NASDAO EM Sovis USD EM Sovereign <= BBB index, EM Corp is USD EM Corporate Plus Index, Cash = 0-3 US Treasury Bill Index, REITs = FTSE NAREIT equity REIT index data as of Des 31,208

