
Capital Markets and Commercial Real Estate

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Fundamentals

Supply / Demand

- Supply Growth – Development has Stopped
- “Big Picture” ties to Gross Domestic Product
 - Office – FIRE Employment, Portion of Service Employment
 - Retail – Household Formations, Income Growth
 - Industrial – Manufacturing vs Distribution
 - Multifamily – Households
 - Hotel – Corporate Travel – Office Employment
- Jobs & Retail Sales Drive Supply & Demand!!!

Financing – Currently Most Important Fundamental

Financing Fundamentals

Capital Markets Drive Financing

CMBS / REITs are Benchmarks

Capital Markets Have Dried Up or Risen Many-fold

Banks are in DEEP Credit Crunch

Few Banks are “In the Game” of Lending

Rates Across the Spectrum Have Risen

Equity, Mezzanine, Debt

Deleveraging – Lower LTV / Higher DSC

Many “former” borrowers can’t get loans today

What is a CMBS?

Commercial Mortgage Backed Security

- Type of pass-through security
- Commercial Mortgages are securitized into a pool. Rights to the revenue from the mortgages are divided into many smaller pieces (tranches, strips, slices), each with differing priorities. Proceeds are distributed to investors based on the priority of their tranche.
- During the last few years, has accounted for slightly less than 40% of all commercial real estate lending.

What is a CDO?

Collateralized Debt Obligation

- Type of pass-through security
- CDOs are securitized debt pools, similar to CMBS, but debts can be CMBS/CDO paper, car/boat/plane loans, credit cards, or virtually any type of debt obligation. Rights to the revenue from the obligations are divided into many smaller pieces (tranches, strips, slices), each with differing priorities. Proceeds are distributed to investors based on the priority of their tranche.
- Tough to gauge accurately, but most experts believe these have accounted for 5-10% of all commercial real estate lending the past few years.

What is REIT?

Real Estate Investment Trust

- Type of Pass-through Security
- Effectively a corporation
- 95% of income passed through to shareholders.
No “corporate” tax. All earnings single-taxed at shareholder level.
- Current “Industry” Issues:
Definition of Assets, Max Debt Load, Yield

What is CDS?

Credit Default Swap

- A bilateral contract where two parties agree to trade the credit risk of a third-party. A protection buyer pays a periodic fee to a protection seller in exchange for a contingent payment by the seller upon a default or failure to pay. Once triggered, the seller either takes delivery of the collateral (eg bond, note) or pays the buyer the difference between the par value and recovery value of the bond (cash settlement).
- They resemble an insurance policy, as they can be used by debt owners to hedge against credit events.

Players in “Simple” CDS

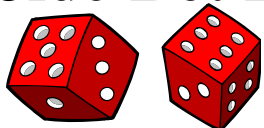
Business Issues Bonds

Side Bet 1

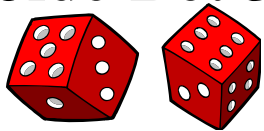


Bonds initially rated too poor for market, eg “BB”

Side Bet 2



Side Bet 3

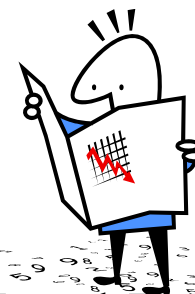


Investment Bank issues CDS (aka Credit Enhances Debt) Enough to make BB = AA, if debtor fails, IB buys bonds

Rating Agency Rates Bonds



Gives loss forecast & amount required for “AA” rating



Pension Fund Buys Bonds with CDS enhancement
Thinks it's AA investment

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Evolution of CDS

- Simple CDS = “Full Coverage”
 - Buyer is Party to Credit Instrument
 - Seller Provides “Full” Coverage
 - Seller Pays (makes up) Shortfall or
 - Seller Buys Credit Instrument from Buyer
 - Buyer is “Made Whole”
- Buyer is Not a Part to Credit Facility, merely a speculator
- Sellers Provide Partial Coverage (ceiling) or Part of Credit
- Sellers Provide Incremental Coverage
 - Goal is to provide “Partial” Credit Enhancement
 - Ratings Are Moved (eg “BB” to “A” rating)
- CDS – Complex Credit
 - CMBS (vertical [multi-tranche buyer] or horizontal)
 - Multiple facilities
 - REITs added

CDS – Credit Enhancement – Market Change

■ DEBT ISSUANCE

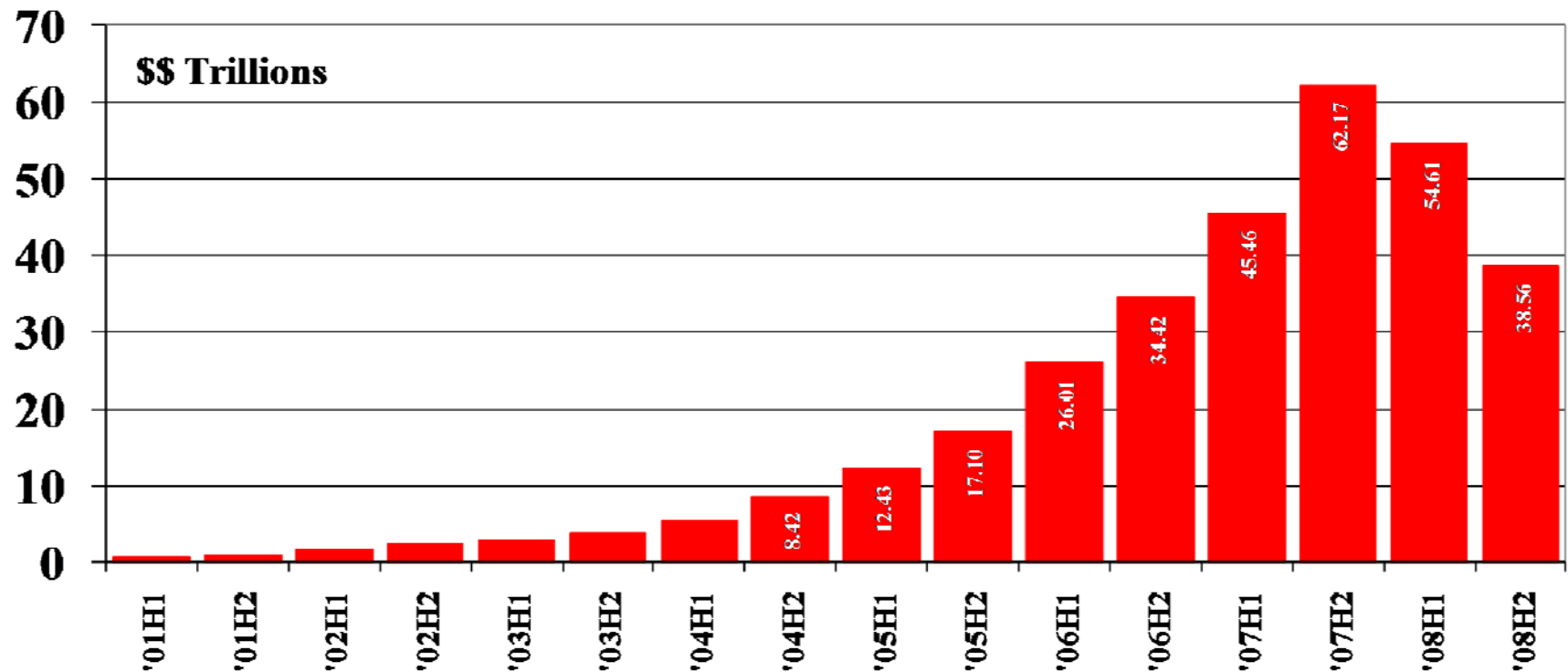
- Debt Issued \$1B
- SRA Rates Debt
- Estimated Loss = \$10MM = “B” Rating
- SRA says \$1MM = AA
- \$9MM CDS bought
- Debt “credit enhanced” from “B” to “AA”

■ DEBT RE-RATED

- Existing Debt 6 mo’s later
- SRA Re-Rates Debt
- Estimated Loss now \$20MM = “unrated” security
- SRA says \$1MM = AA
- CDS provided \$9MM coverage, now addtl \$10MM expected loss
- Credit Enhancement not enough to yield desired rating on security

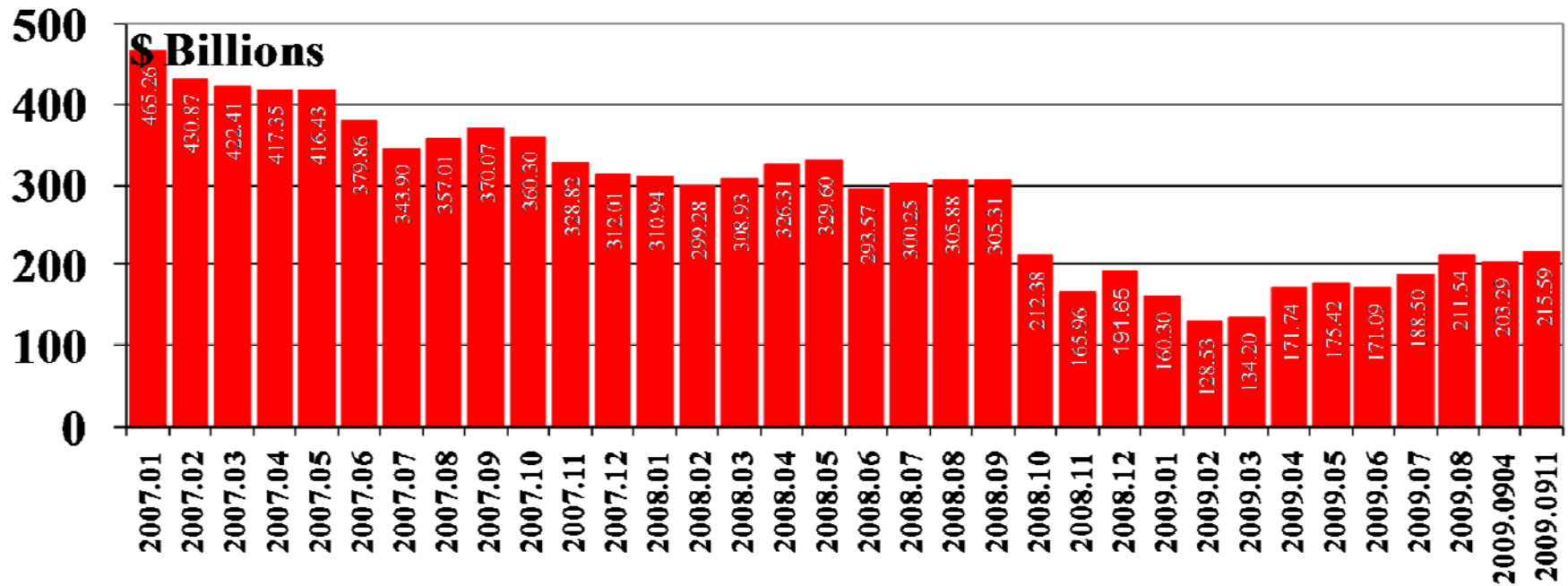
Note: Above is Hypothetical Example

Size of Credit Default Swaps – Notional Amt



Source: ISDA (Voluntary Survey), Greer Advisors, LLC

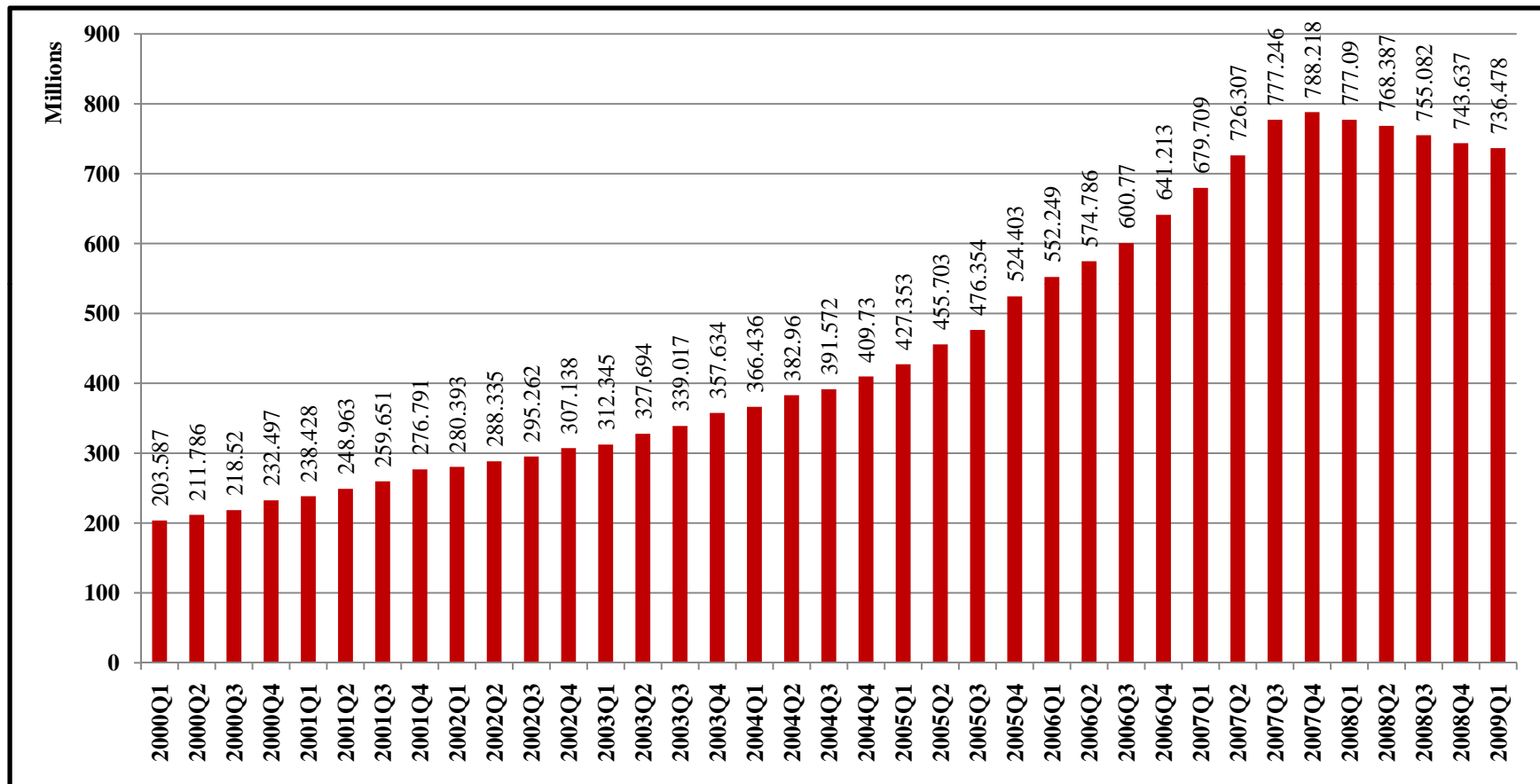
REIT Market Capitalization



Source: NAREIT, Greer Advisors, LLC

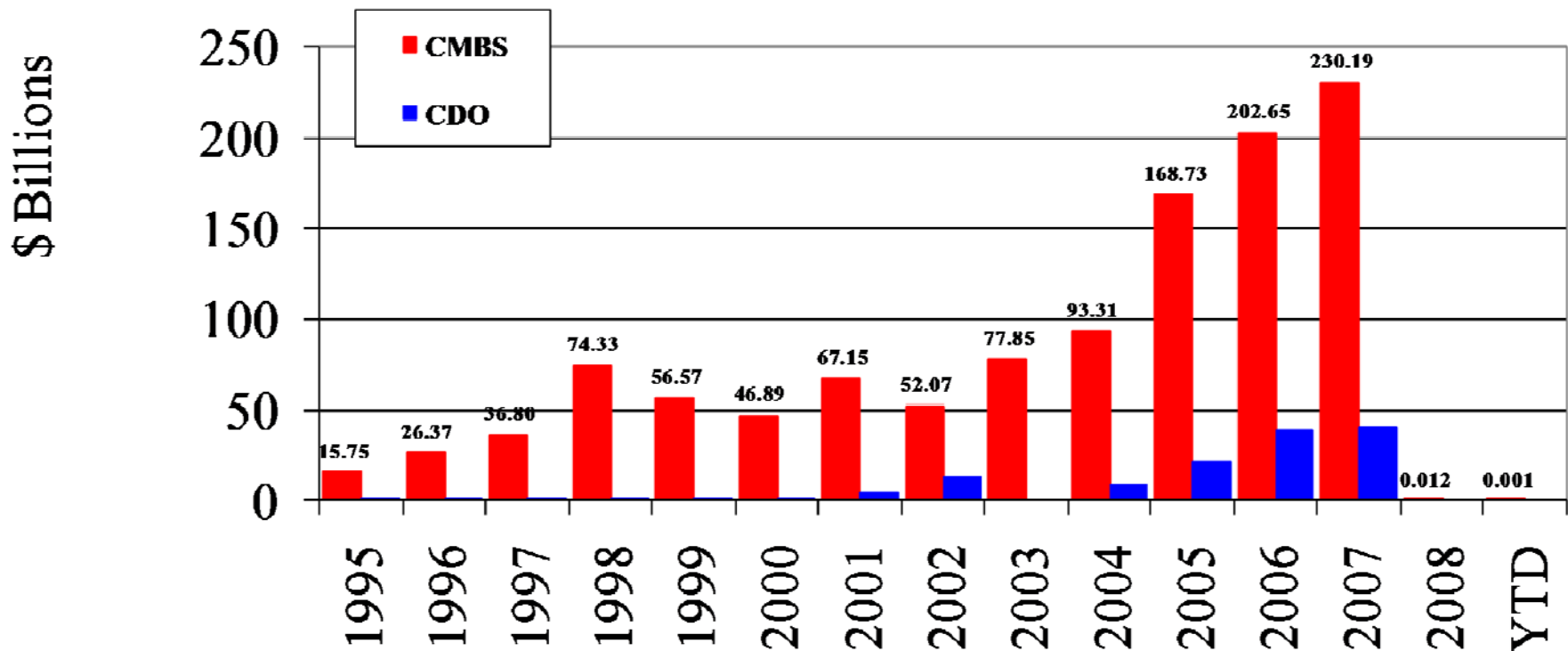
Note: Includes Equity, Debt and Hybrid REITS as of 9/11/09

Size of CMBS Market (Outstandings)



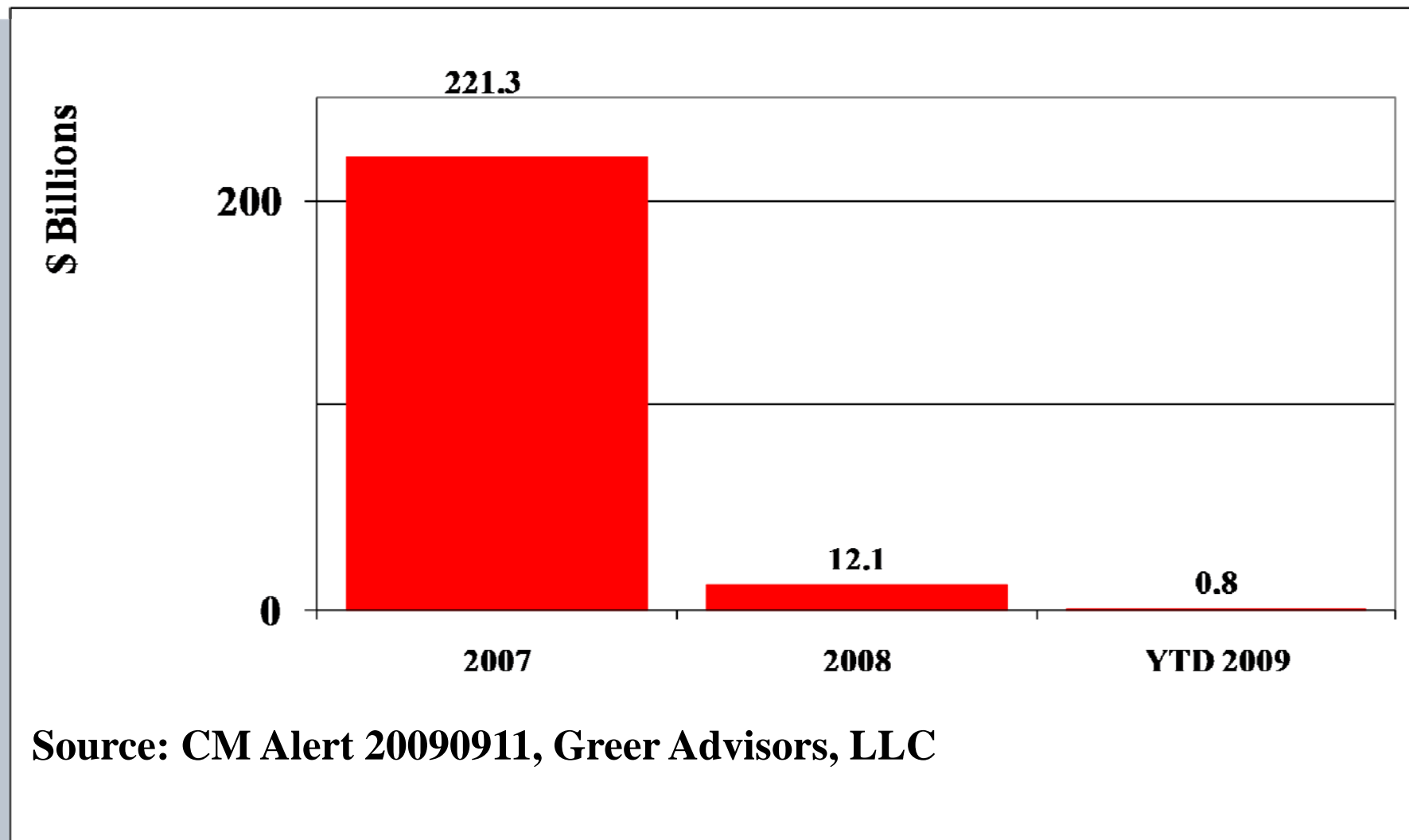
Source: FRB – Z1 Report, Greer Advisors, LLC

CMBS Issuance in U.S. - Skyrockets



Source: CM Alert 20090821, Greer Advisors, LLC

CMBS Issuance in U.S. – 2008 Off 99% YTD

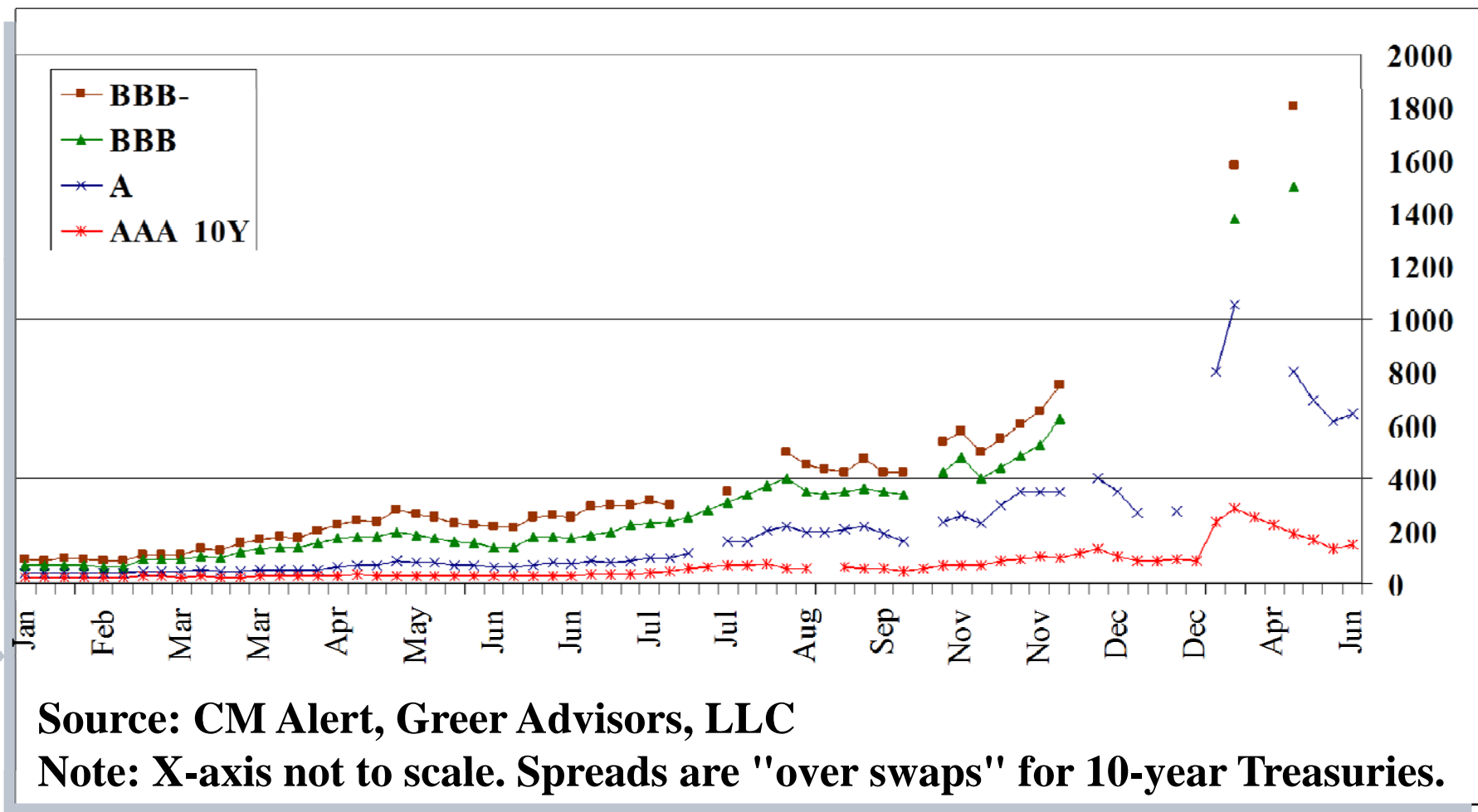


Source: CM Alert 20090911, Greer Advisors, LLC

Example of a “Typical” MBS

No. Loans	250		
Avg. Loan Size	\$10,000,000		
Total Loan Amt.	\$2,500,000,000		
Index Name	10-Year Treasury		
Index Rate	3.450%		
Avg. Margin	1.750%		
Avg Yield	5.200%		
		THEN	NOW
Rating (10Y)	Subordination	2007.01	2009.0911
AAA S60	60.0%	3.650%	3.499%
AAA S30	30.0%	3.700%	4.250%
AAA	12.5%	3.750%	9.118%
AA	9.0%	3.850%	18.936%
A	8.0%	4.450%	34.942%
BBB	5.0%	5.200%	33.123%
BB	4.0%	5.950%	54.086%
B	2.5%	7.450%	144.792%
Unrated	0 to <2.5%	8.450%	235.498%
	Weighted Average Yield	3.944%	14.876%
Implied Annual Excess Return		0.256%	-10.676%
Note: Assumes 1% swap, agency, trust, servicer and other fees.			

CMBS Yield Spreads (Spread to Swap)

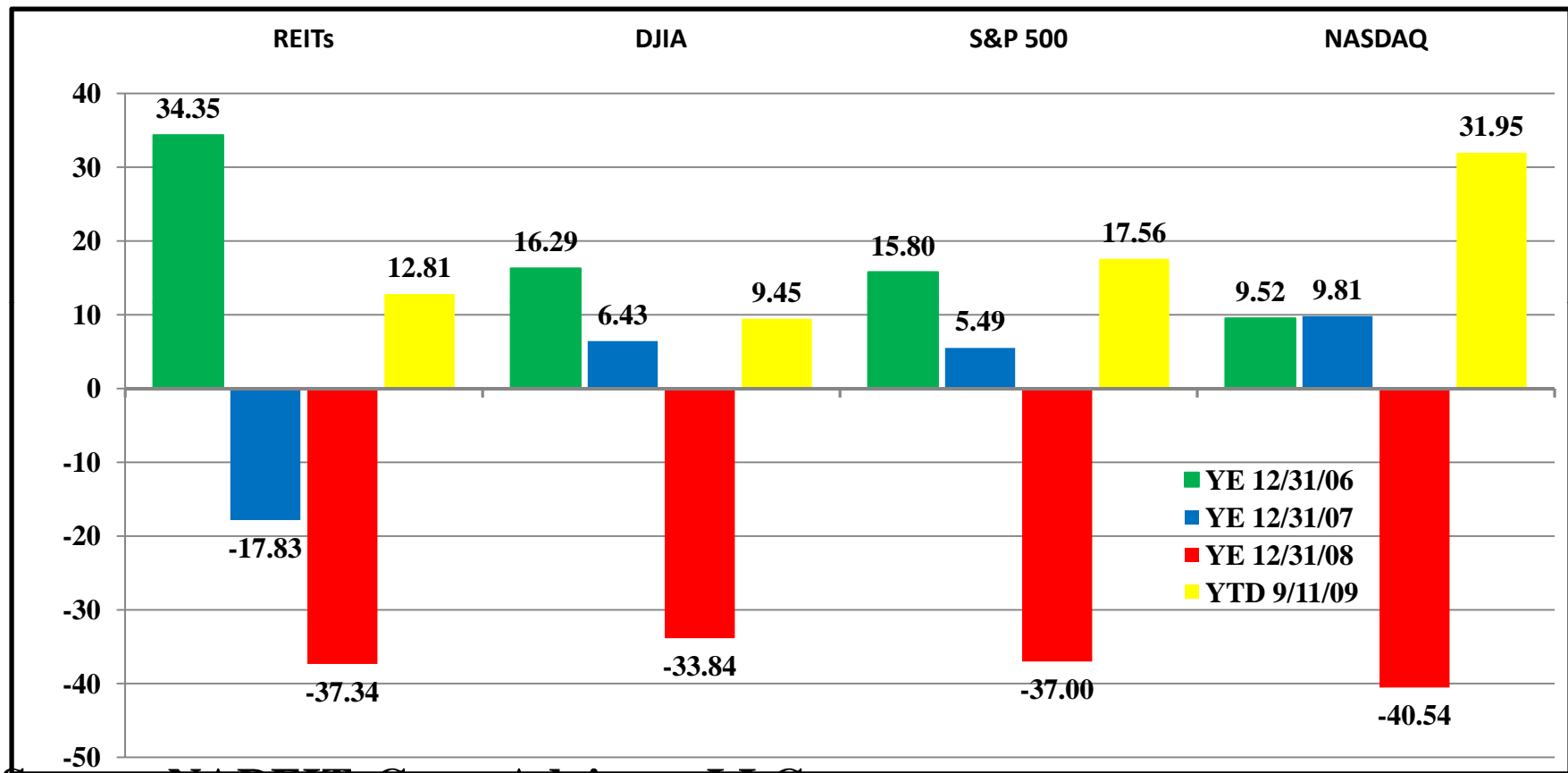


Note: Last "TRUE" CMBS closed was June 29, 2008

17 Graph covers 1/2007 – Jun 2008

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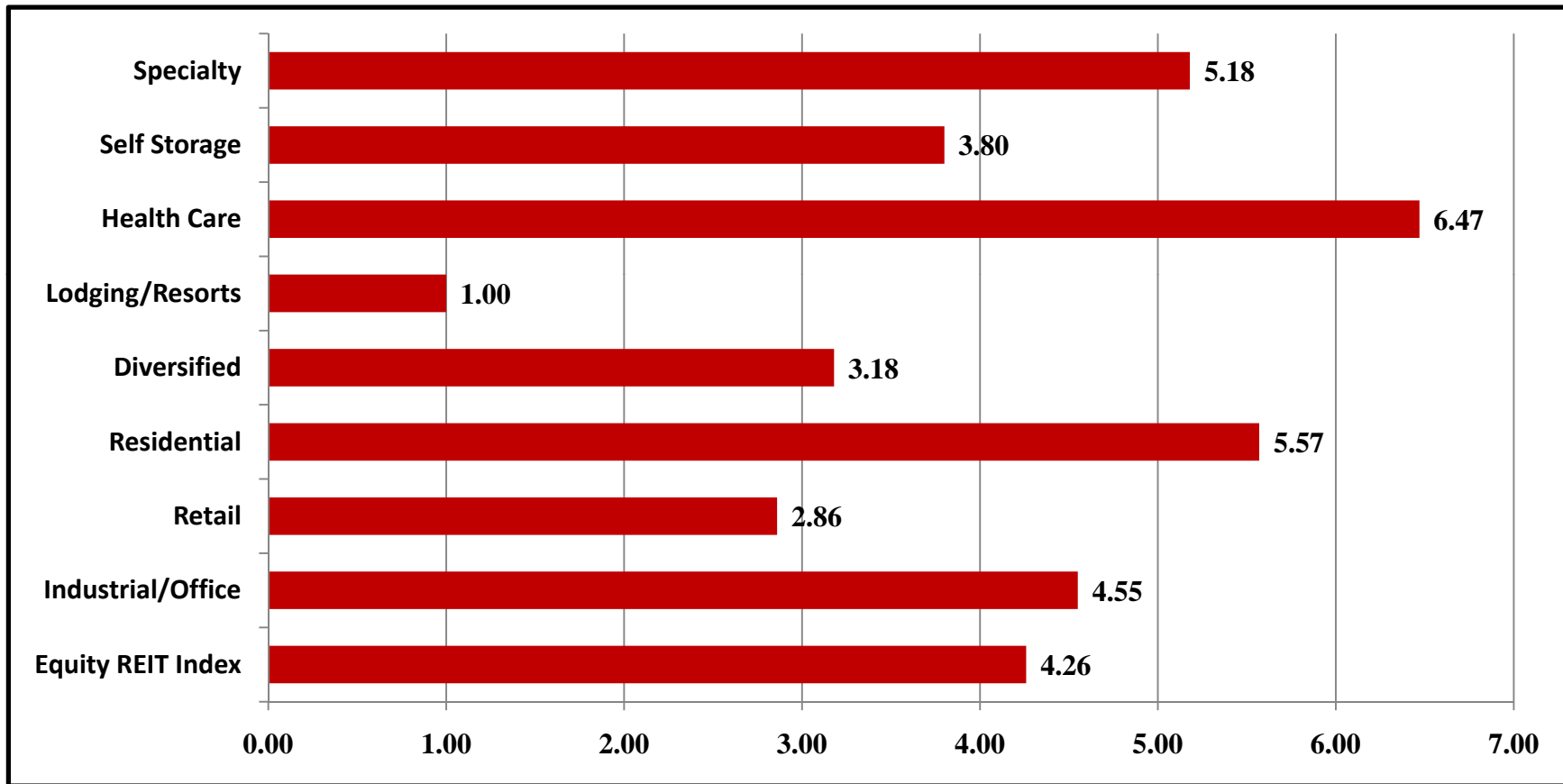
Benchmark Returns — Changes so Fast!



Source: NAREIT, Greer Advisors, LLC

Note: "Price Only" returns, excludes dividends

REIT Dividend Yields by Property Type 9/11

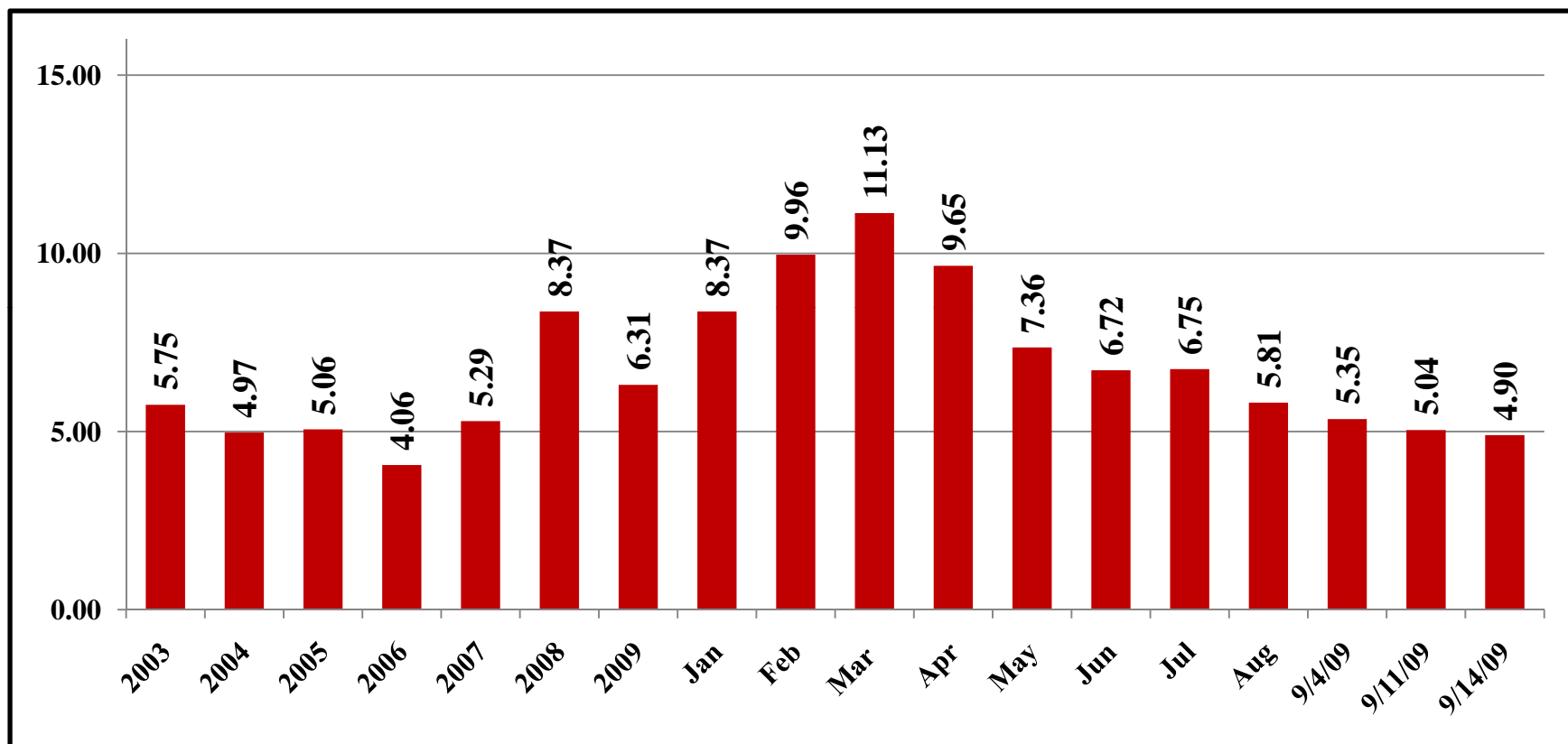


Source: NAREIT, Greer Advisors, LLC

Note: Data as of 9/11/2009, "Spot" Rates

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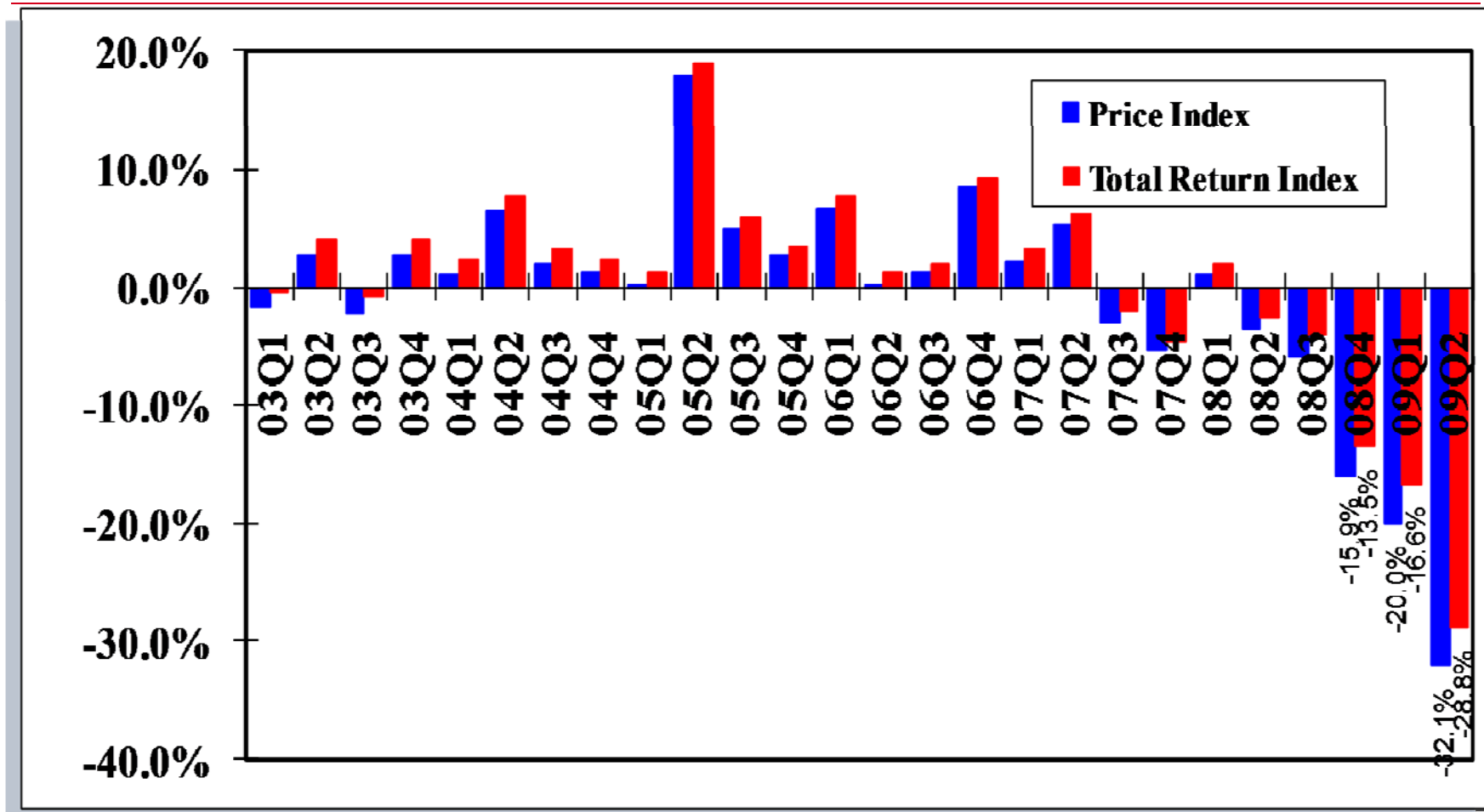
REIT Dividend Yield (Cap Rate) Trends



Source: NAREIT, Greer Advisors, LLC

Note: Dividend Yield from NAREIT "All REIT Index" as of 9/14/09

NCREIF 09.Q1 Continues Down



Source: NCREIF, MIT, Greer Advisors, LLC

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Quote of the Day

“...prediction is very difficult, especially when it’s about the future...”

~~NY Yankees #8, Yogi Bera~~

Niels Bohr

Nobel Laureate, 1922

Atomic Structure /

Quantum Mechanics



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Conclusions

- CMBS Market – Yield Spreads are 10-100x higher than 1/07
- CMBS – New Business Model will Arise
- REITs – Down 60+%
- NCREIF – Down Unprecedented Amount
- Most Lenders Closed, Stopped or Reduced Lending
- Financing Cap/Yield Rates Have RISEN
- CASH IS KING!
- Value Growth will Lag Rent Growth
- Rents / Vacancies Remain better than early 1990s
- Values Undergoing Correction

Future - Mortgage Backed Security

- Until MBS Returns, markets WILL NOT fully recover
- Most banks ARE NOT in the business of holding long term debt
- New MBS WILL EMERGE with terms as follows
 - No “quick buck” investment banks/mortgage bankers
 - Issuer will hold 1-5% of pool as “1st Loss / Good Faith” position
 - 60-70% of pool will be AAA, not 92%
 - Buyers of paper will “re-underwrite” pools, regardless of SRA

Greer's 3-Year Forecast as of 9/15/2009

- Borrowing Rates will Rise Dramatically
- Margins (to 10 Yr Treasuries or LIBOR) will rise 200+ bps in 2009 and settle 350±50 bps over 10 year Treasuries, but might over-correct in the short run, say 10Yr+500 bps
- Rent Growth will Lag CPI growth by 0-5%
- Values will fall 5-15% from 2008-2012. Individual Market Performance will vary widely (10-30% difference in Top vs Bottom)
- Capitalization Rates will Rise 2-5% during 2008-2012 (eg 5.0% to 7.25% = 30% decline in value)
- Declines: #1=Retail; #2=Industrial & Office; then Apartment
- Change Creates Opportunities

Greer's Recovery Signs

- CDS Exposure under \$25 Trillion (i.e. under 50% of peak)
- Decline in CMBx Yield Spreads for 6 straight weeks
- Re-emergence of CMBS market
 - New CMBS Market will include:
 - Issuer Keeps 1-5% 1st-loss piece
 - AAA Subordination near 30%....
 - AAA is 70%, not 90% of issue
- REIT Market Capitalization (Total Value) Stabilizes or Increases for 6 months
- Consumer Confidence Rises and stays above 70 for 6 months
 - As of 8/25/09 index stands at 54.1 (1985=100)
- Risk Curve (AAA Sr. vs BB) flattens to under 500 bps. As of 9/11/08, spread stands near 14,000 bps.

Questions / Answers

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