Capital Markets and their Impact on Valuation

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Goals of Presentation

- Fundamentals
- Capital Markets (CMBS/CDO/REIT/CDS)
- Implications for Real Estate (Size/Yield/Impact)
- Real Estate Trends (Capitalization/Yield Rates)
- Conclusions
- Forecast
- Signs to Look for

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





Bonds initially rated too poor for market, eg "BB"













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

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 Greer Advisors, LLC REITs added

CDS – Credit Enhancement – Market Change

DEBT ISSUANCE

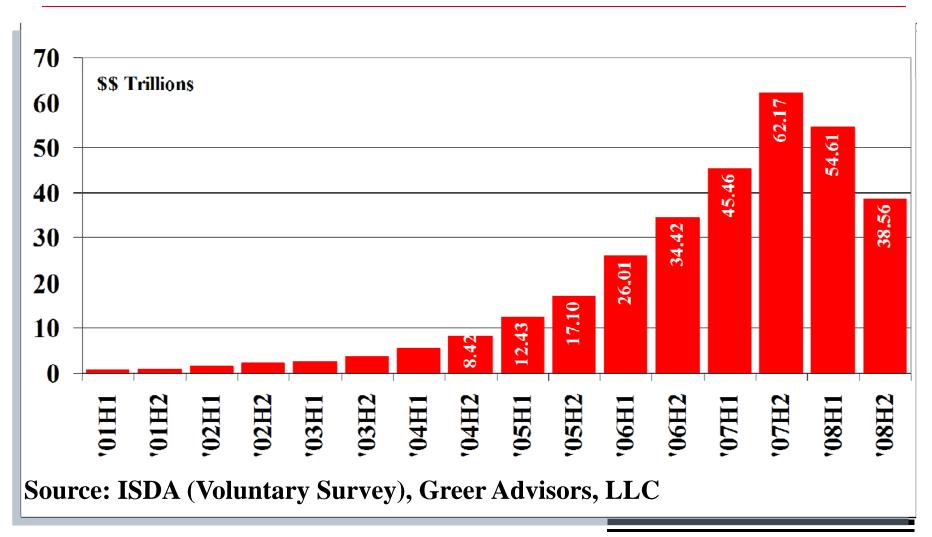
- Debt Issued \$1B
- SRA Rates Debt
- Estimated Loss =\$10MM"B" Rating
- SRA says \$1MM = AA
- \$9MM CDS bought
- Debt "credit enhanced" from "B" to "AA"

DEBT RE-RATED

- Existing Debt 6 mo's later
- SRA Re-Rates Debt
- Estimated Loss now \$20MM = "unrated" security
- \blacksquare 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

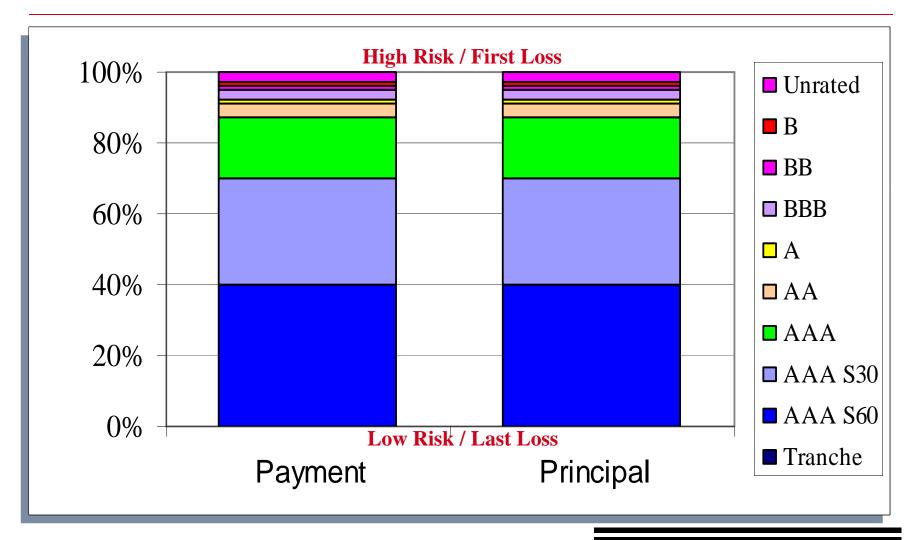
Credit Default Swaps



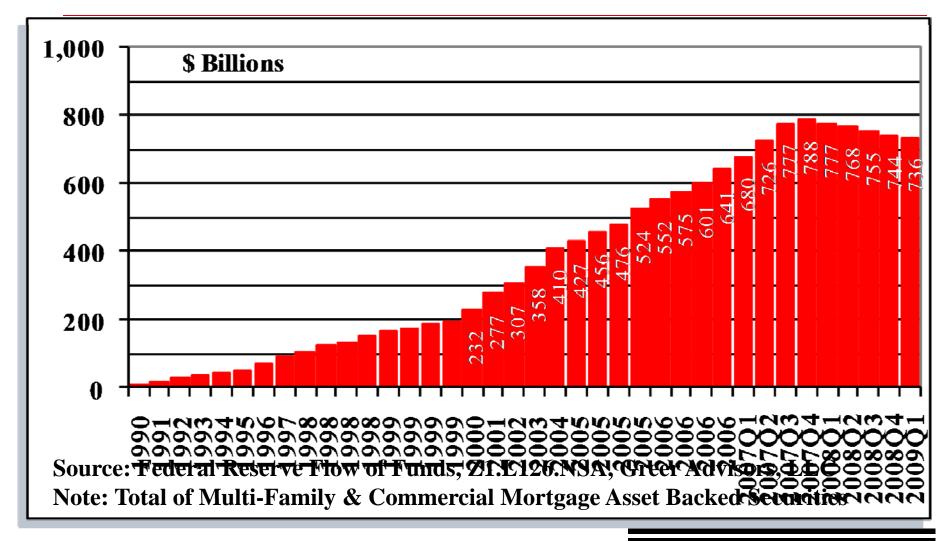
Example of a "Typical" MBS

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	2009.0824
AAA 860	60.0%	3.650%	3.499%
AAA S30	30.0%	3.700%	5.098%
ллл	12.5%	3.750%	10.039%
AA	9.0%	3.850%	20.545%
A	8.0%	4.450%	34.942%
ввв	5.0%	5.200%	56.484%
ВВ	4.0%	5.950%	60.967%
В	2.5%	7.450%	143.952%
Unrated	0 to <2.5%	8.450%	226.938%
	Weighted Average Yiel	3.944%	15.891%
Implied Annual Exces	s Return	0.256%	-11.691%
Note: Assumes 1% sw	ap, agency, trust, servicer	and other fees.	

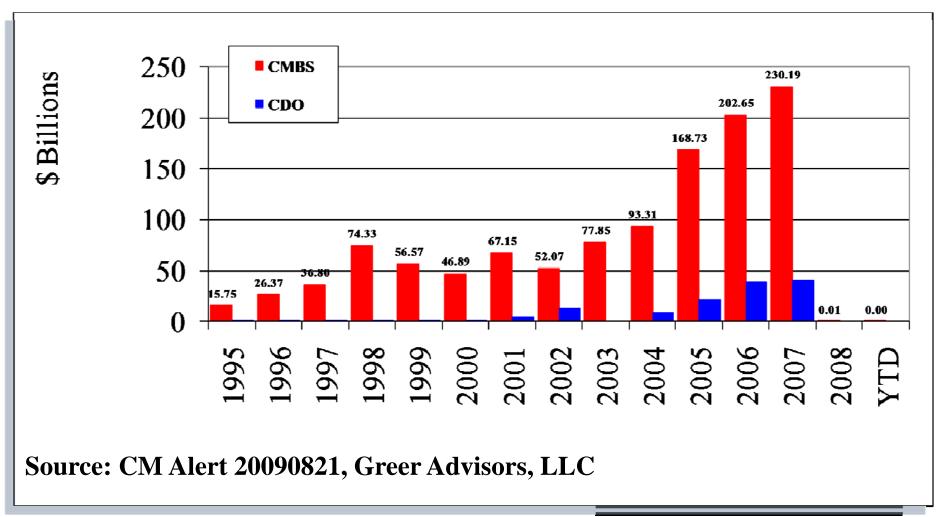
Subordination Graph



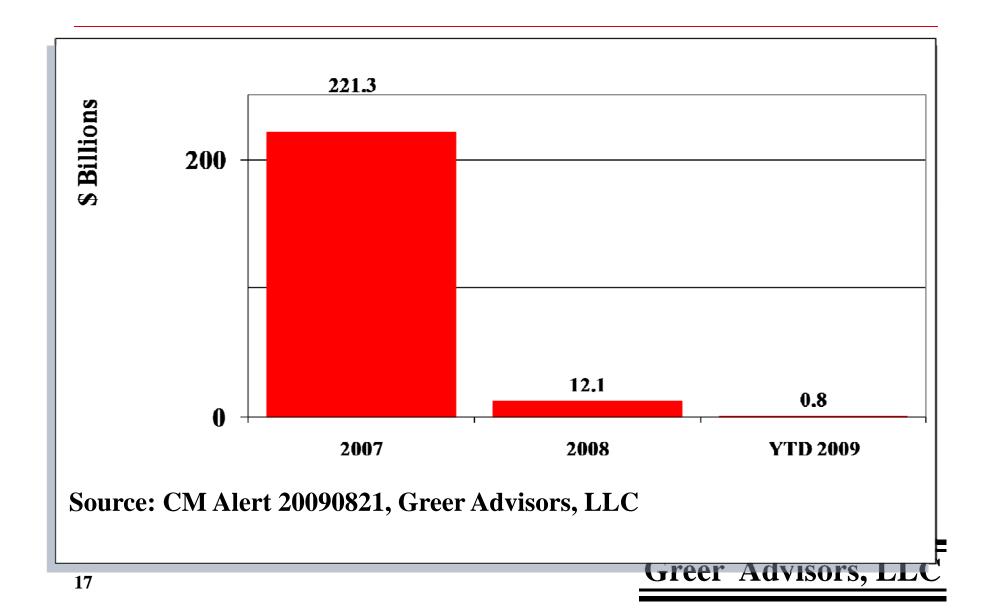
CMBS Outstandings in U.S. - Grows



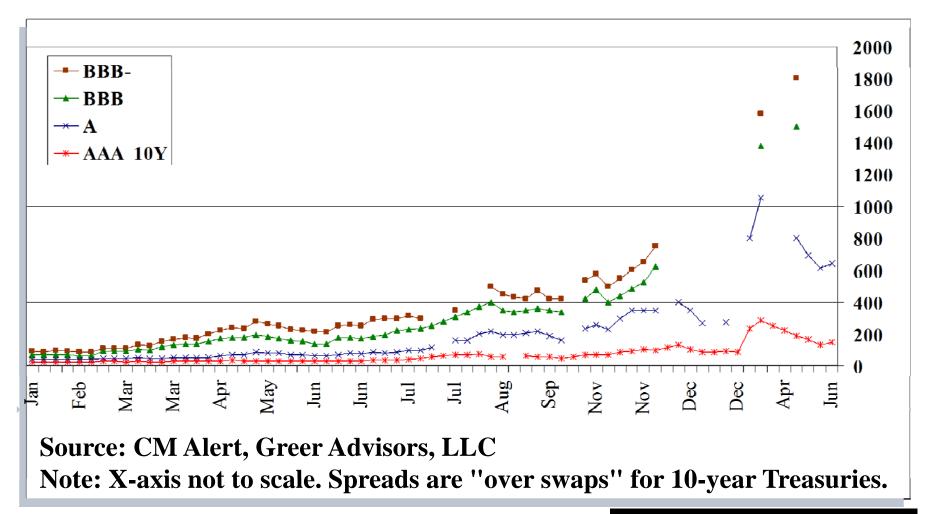
CMBS Issuance in U.S. - Skyrockets



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



CMBS Yield Spreads (Spread to Swap)



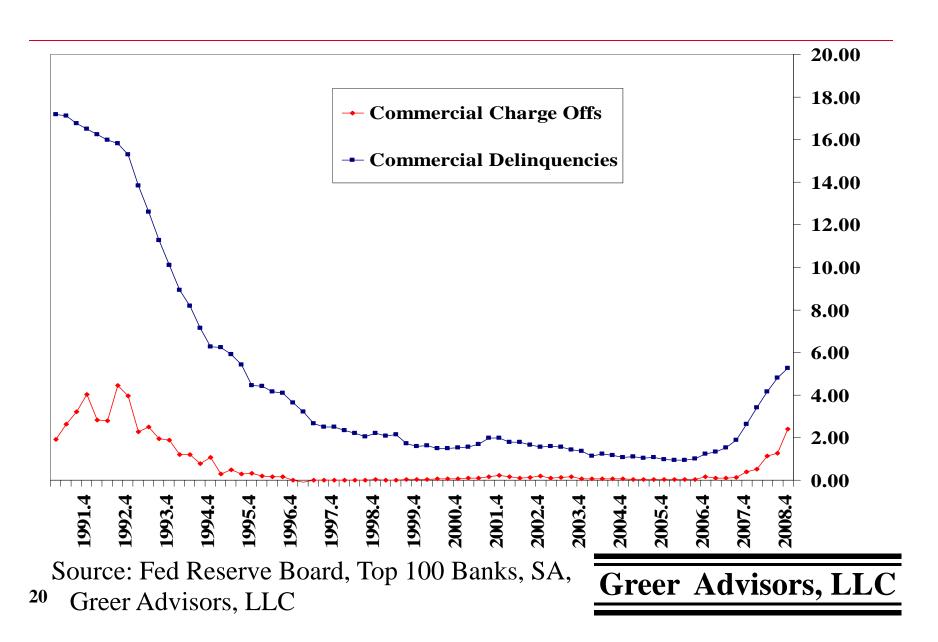
Note: Last "TRUE" CMBS closed was June 29, 2008

18 Graph covers 1/2007 – Jun 2008

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"
 - 60-70% of pool will be AAA, not 92%
 - Buyers of paper will "re-underwrite" pools, regardless of SRA

Commercial Real Estate Loans



Synthetic CMBX Yields

Tranche *	Yield *	Approx	Rise in
	8/24/09	CMBS	Yields**
		1/2007 **	
CMBX.5 AAA	4.9%	3.25%	1.62%
CMBX.5 AAA AJ	13.7%	3.30%	10.41%
CMBX.5 AA	27.7%	3.35%	24.38%
CMBX.5 A	43.8%	3.45%	40.40%
CMBX.5 BBB	69.9%	3.70%	66.21%
CMBX.5 BBB-	74.9%	3.95%	70.94%
CMBX.5 BB	127.3%	4.15%	123.18%

Source: *Greer Advisors calculated based on initial data from Markit

CMBS/X – Implied R.E. Yields

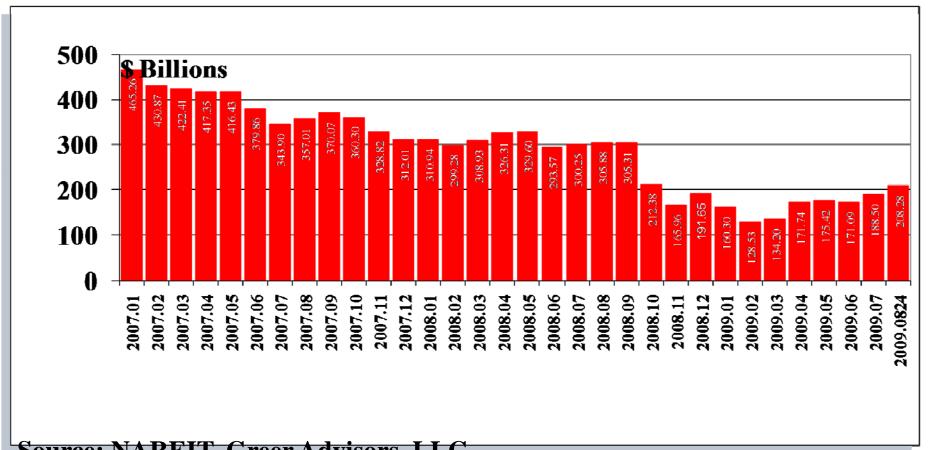
Tranche	Yield	Suboord.	Weight of Debt	Contribution to Total
AAA Sr*	4.866%	29.76%	70.24%	3.42%
AAA Jr*	13.714%	12.70%	17.06%	2.34%
AA*	27.731%	10.63%	2.07%	0.57%
A *	43.848%	8.00%	2.63%	1.15%
BBB*	69.906%	4.72%	3.28%	2.29%
BBB-*	74.886%	3.68%	1.04%	0.78%
BB*	127.329%	2.69%	0.99%	1.26%
Unrated	180.0%	0.00%	2.69%	4.84%
		1	100.00%	
Implied Debt Yield				
Overal Loan to Value Ratio				75%
Class A Prop.	75.0%		100%	31.24%
Class B Prop.	180.0%		100%	57.49%

Source: *Greer Advisors calculated

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based on data from Markit as of 8/24 266 Advisors, LLC

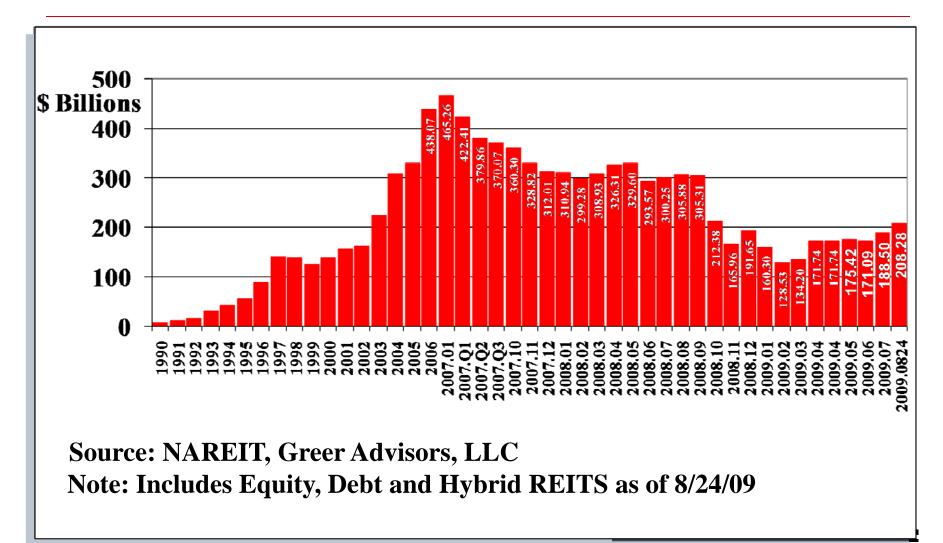
REITs Lose \$296 Billion or 64% of value



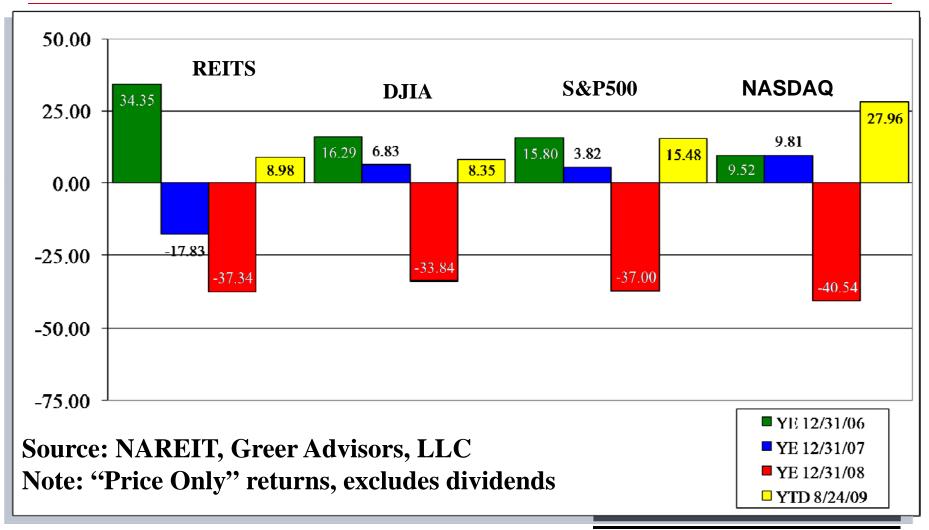
Source: NAREIT, Greer Advisors, LLC

Note: Includes Equity, Debt and Hybrid REITS as of 8/24/09

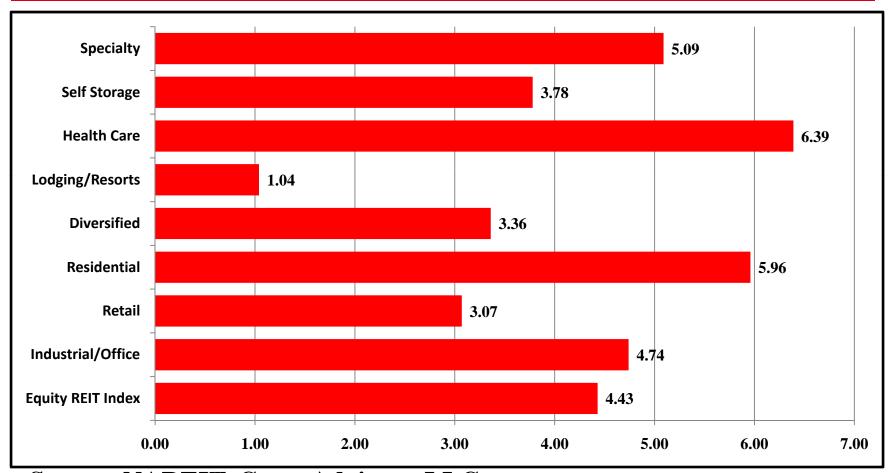
REIT Market Capitalization



Benchmark Returns — Changes so Fast!

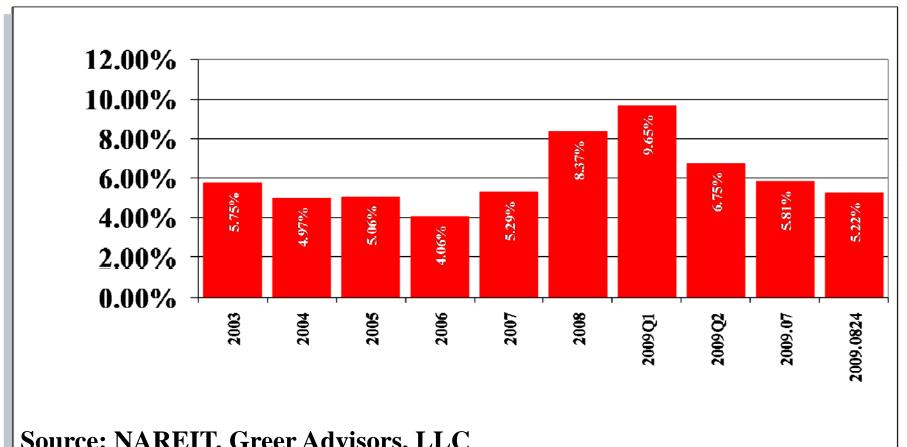


REIT Dividend Yields by Property Type 8/24



Source: NAREIT, Greer Advisors, LLC Note: Data as of 8/24/2009, "Spot" Rates

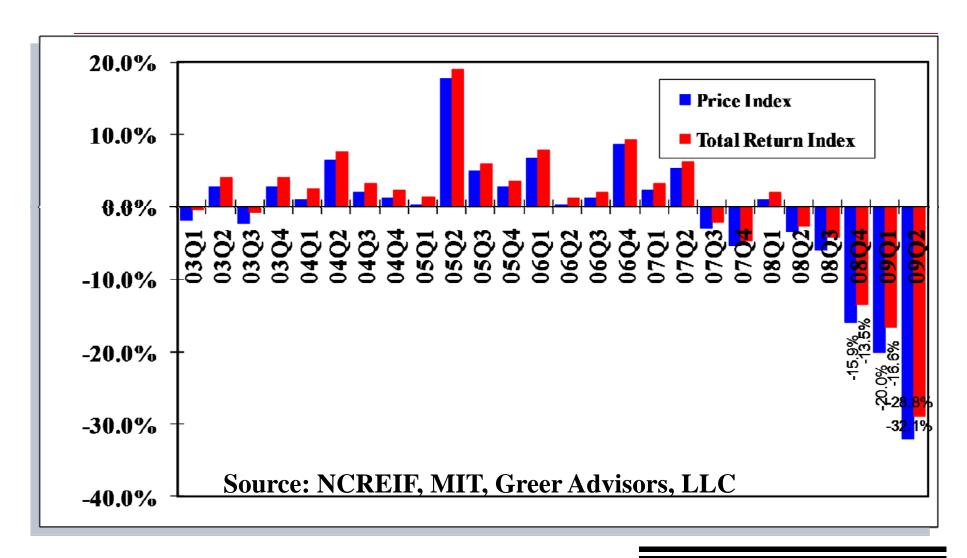
REIT Dividend Yield (Cap Rate) Trends



Source: NAREIT, Greer Advisors, LLC

Note: Dividend Yield from NAREIT "All REIT Index" as of 8/24/09

NCREIF 09.Q1 Continues Down



Value Fundamentals

CMBS Market is Effectively Broken = Opportunities

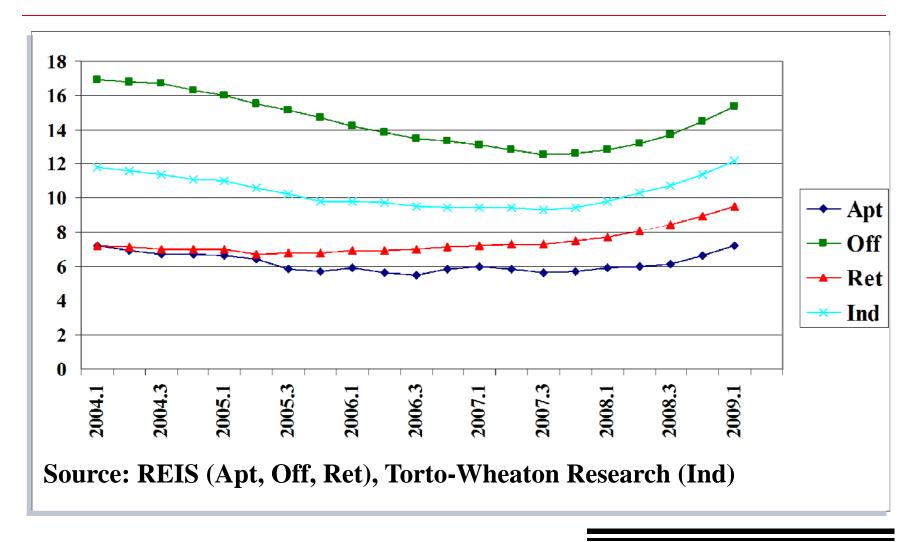
CMBS/CMBX Industry – Imply R.E. Yields Doubled

REITS are "Off" more than 50% = Opportunities

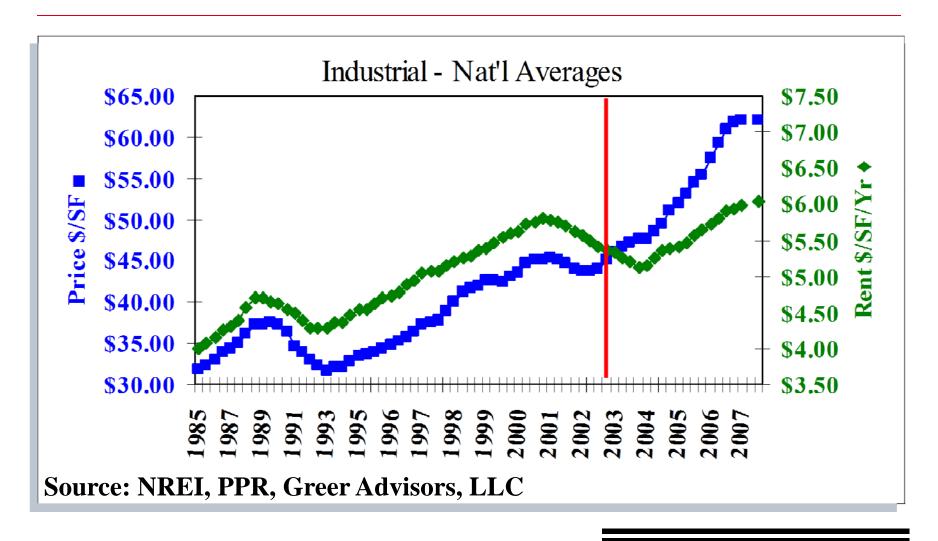
NCREIF is nearly Flat (down 2-3%)

Market Change brings Opportunities!

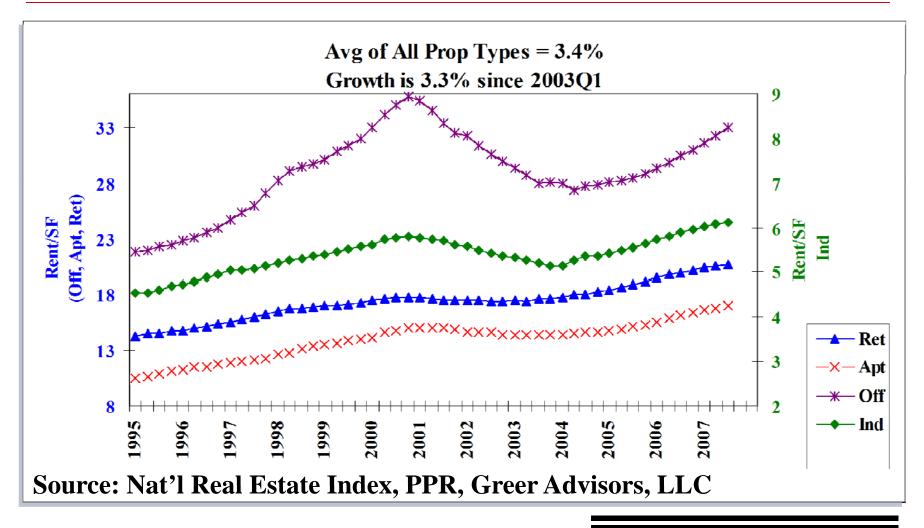
National Trend — Vacancy – thru '09Q1



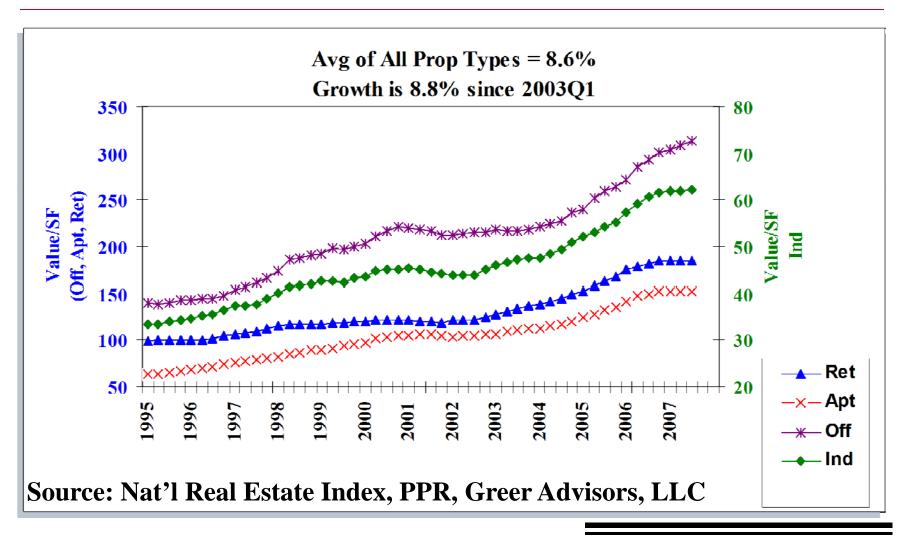
The Relationship Breaks in 2003



Market Trends — National Rents



Market Trends — National Values

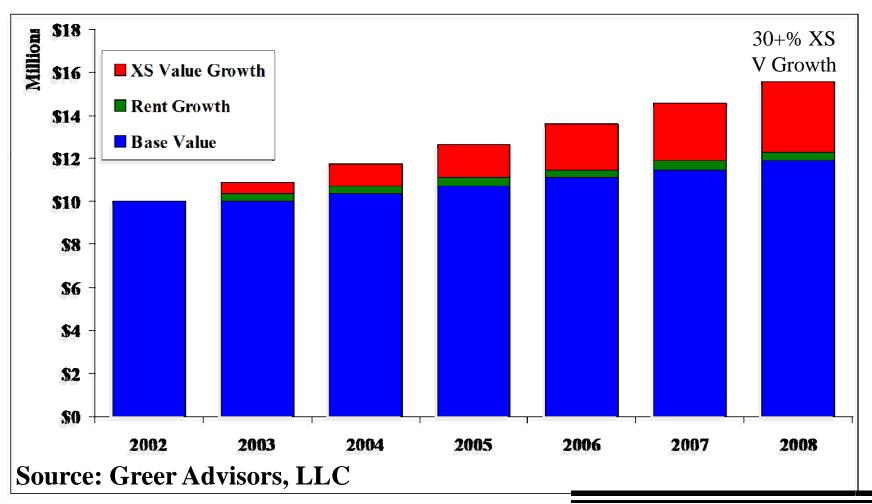


Growth Example — Value vs. Income

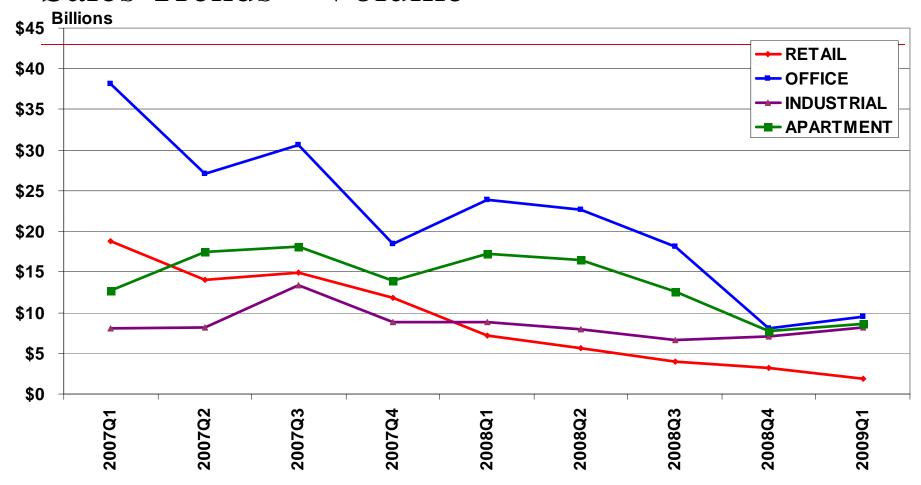
Year	Rent	RentG	Ind Cap	Value
2002	750,000	3.30%	7.50%	\$10,000,000
2003	774,750	3.30%	7.12%	\$10,880,000
2004	800,317	3.30%	6.76%	\$11,837,440
2005	826,727	3.30%	6.42%	\$12,879,135
2006	854,009	3.30%	6.09%	\$14,012,499
2007	882,192	3.30%	5.79%	\$15,245,598
2008	911,304	3.30%	5.49%	\$16,587,211
	average	3.30%		8.80%

Increase in value was only "interest rates" first 2 years. Momentum effect carried it further. What happens when it stops?

Rent versus Value Growth

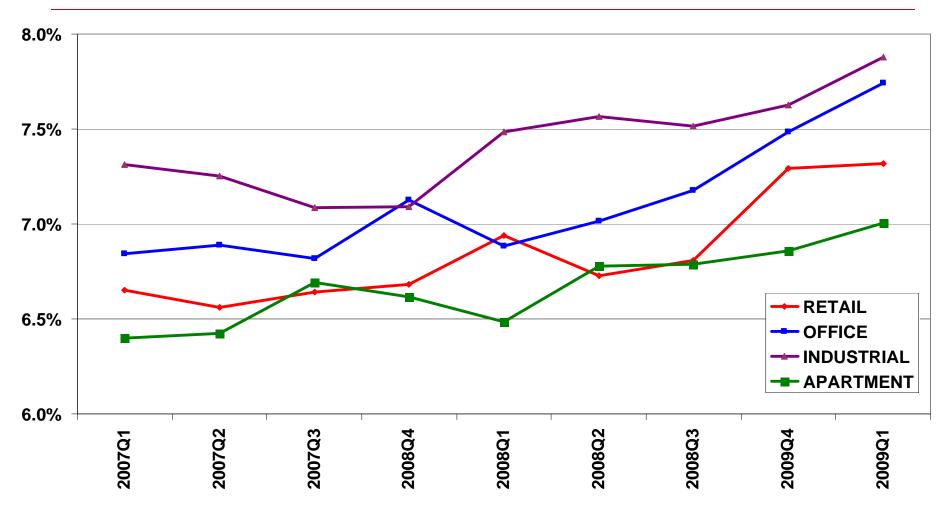


Sales Trends – Volume



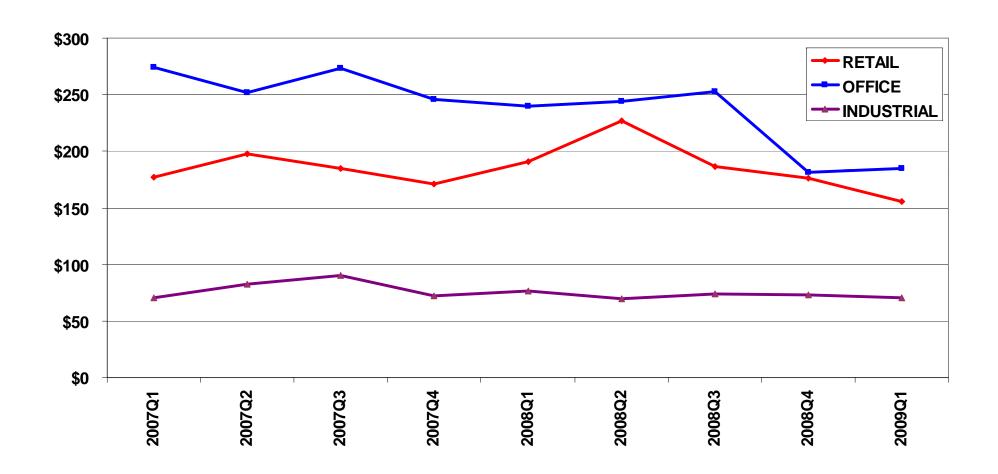
Source: Real Capital Analytics, Greer Advisors

Sales Trends – Cap Rates



Source: Real Capital Analytics, Greer Advisors

Sales Trends – Price per SF



Source: Real Capital Analytics, Greer Advisors

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



Conclusions

- CMBS Market Yield Spreads are 10-100x higher than 1/07
- CMBS New Business Model will Arise
- REITs Down 60%
- NCREIF Mixed / Marginal Changes
- 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

Greer's 3-Year Forecast as of 5/21/2009

- 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 very 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 8/24/08, spread stands near 12,200 bps.

Questions / Answers

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