



Observations on Financial Stability Concerns for Monetary Policymakers

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Global Growth

- The global economy continues to underwhelm
 - Disappointing economic performance has led central banks in many developed countries to reduce interest rates
 - Low rates have impacted financial intermediaries
 - Many developing economies are still suffering from the decline in global commodity prices
- ▶ United States: real GDP growth below 2 percent in the first two quarters of 2016

U.S. Economy Still Fundamentally Strong

- ▶ Unemployment is currently 4.9 percent close to "full employment"
- Core inflation gradually rising currently 1.6 percent
- Expect inflation target of 2 percent and full employment – goals of U.S. monetary policy – to be achieved relatively soon
- ► Monetary policy in the U.S. has been appropriately patient in support of improving labor markets and reaching our 2 percent inflation target

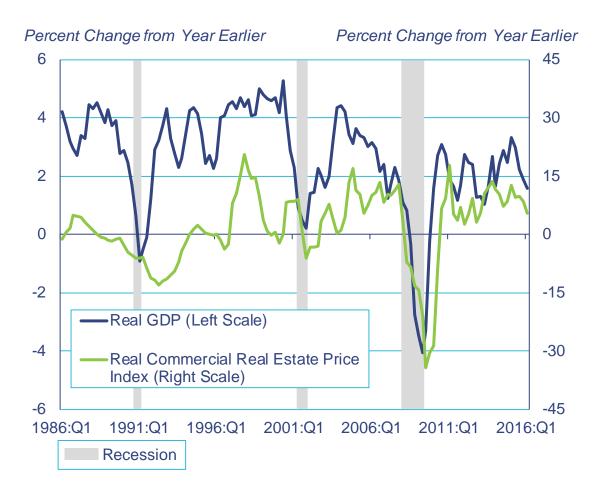


- ► Potential "Reaching for Yield" buying riskier assets to achieve a desired profit or savings goal
 - Firms take on risk to achieve profit margins
 - Households take on risk to achieve savings goals
- May generate costs in the future if there is a large negative shock
- ► Policymakers must weigh this risk against the benefits of low rates in supporting the economy
- ▶ Possible example commercial real estate, where prices have risen significantly and cap rates are hitting historic lows



Figure 1: Growth in Real GDP and Real Commercial Real Estate Prices in the United States

1986:Q1 - 2016:Q1



Note: The commercial real estate price index is adjusted for inflation using the GDP deflator. Source: BEA, Federal Reserve Board, NBER, Haver Analytics



Figure 2: U.S. Commercial Real Estate by Lender Type

2016:Q1

Outstanding as of March 31, 2016	Commercial Mortgages		Multifamily Residential Mortgages		Total	
Lender Type	Billion Dollars	%	Billion Dollars	%	Billion Dollars	%
Banking Institutions ¹	1,494.0	59	388.6	35	1,882.7	52
Banks with over \$50 Billion in Assets ²	552.7		164.6		717.3	
Life Insurers and Other Long-Term Investors ³	369.7	15	66.4	6	436.1	12
GSEs & Agency CMBS	0.0	0	472.5	43	472.5	13
Non-Agency CMBS ⁴	498.1	20	61.2	6	559.3	15
Finance Companies	27.8	1	1.2	0	29.1	1
Nonfinancial (Other) ⁵	133.1	5	121.2	11	254.3	7
Total	2,522.8	100	1,111.1	100	3,633.9	100

¹Includes U.S.-chartered depository institutions, foreign banking offices in the U.S. and banks in U.S.-affiliated areas.

²Includes commercial and savings banks and thrifts with assets over \$50 billion. Author's estimates using call report data.

³Includes life and property-casualty insurance companies, private pension funds, and state and local government retirement funds.

⁴Includes REITS.

⁵Includes households, nonfinancial corporate and noncorporate businesses and federal and state and local governments.

Commercial Real Estate Risk

- ▶ By themselves, exposures unlikely to trigger problems – could aggravate economic downturn
 - Weaker economy could trigger lower commercial real estate collateral values with potential problems for leveraged firms
 - Banks may pull back on lending, reducing access to credit for firms and households
 - Consistent with recession where collateral values declined in the U.S.
- Real estate is a particular problem because it is widely held by leveraged institutions

Figure 3: National Annual Apartment Occupancy

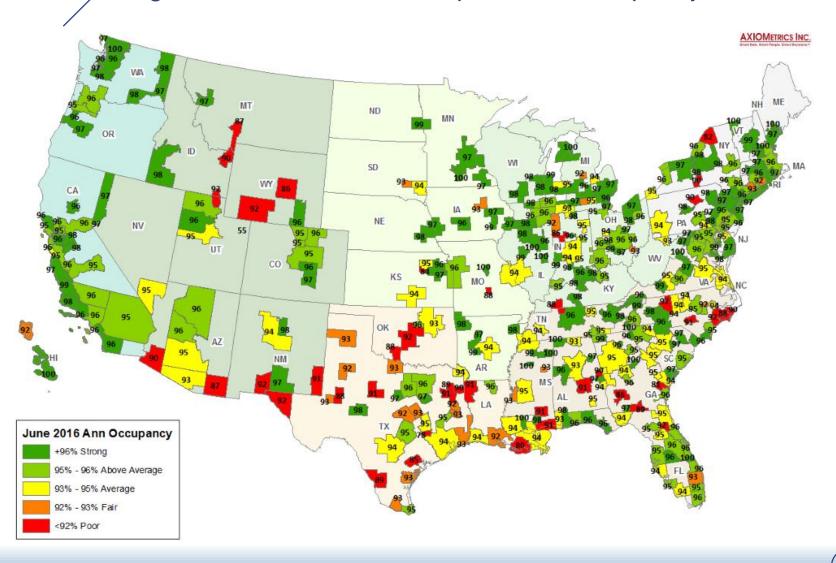


Figure 4: National Annual Effective Rent Growth for Apartments

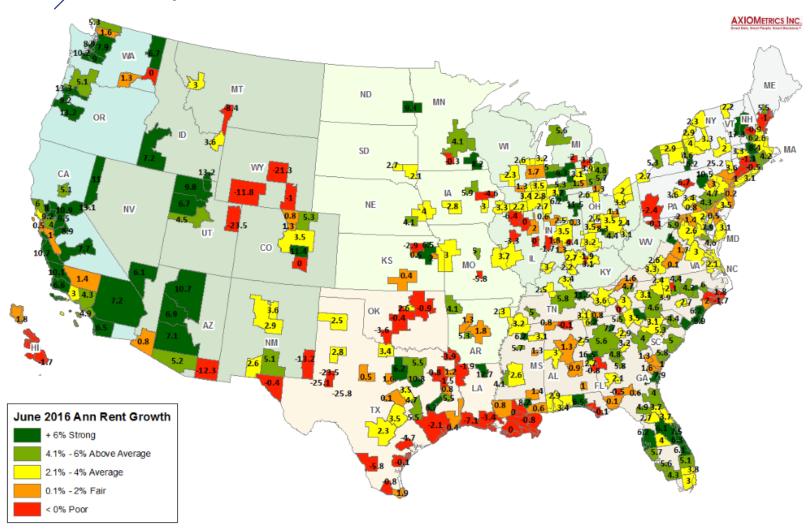




Figure 5: U.S. Real Commercial Property Price Indices by Property Type

2000:Q4 - 2016:Q2

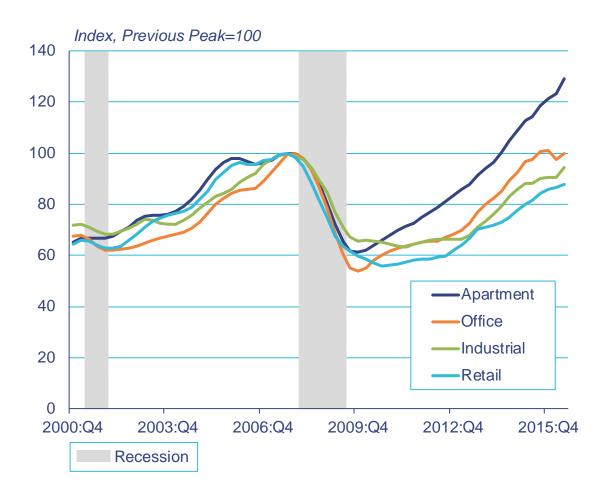




Figure 6: U.S. Real Commercial Property Price Indices by Region

2001:Q1 - 2016:Q2

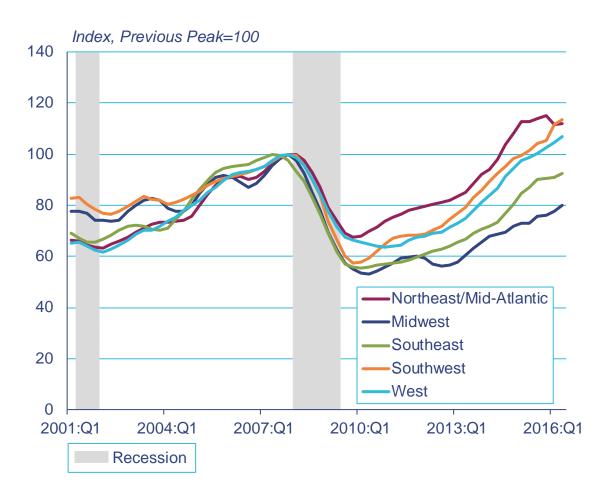
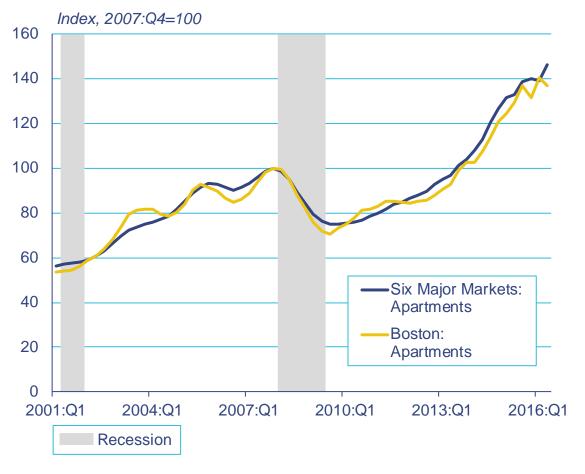




Figure 7: Apartments: Boston vs Six Major Markets Real Commercial Property Price Indices

2001:Q1 - 2016:Q2

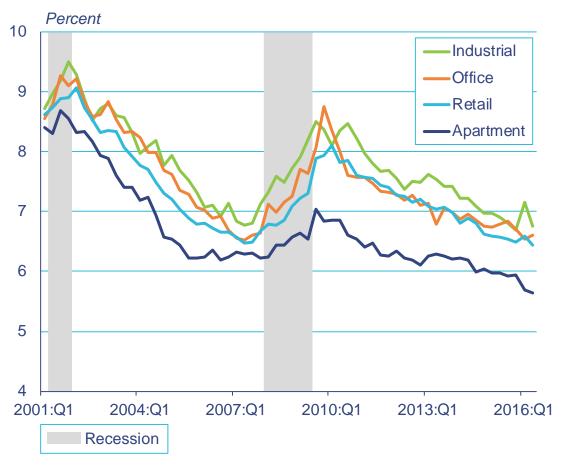


Note: Indices are adjusted for inflation using the GDP deflator. Indices are repeat-sales based. The six major markets are Boston, Chicago, DC Metro, LA Metro, NYC Metro and SF Metro.



Figure 8: U.S. Capitalization Rates by Property Type

2001:Q1 - 2016:Q2

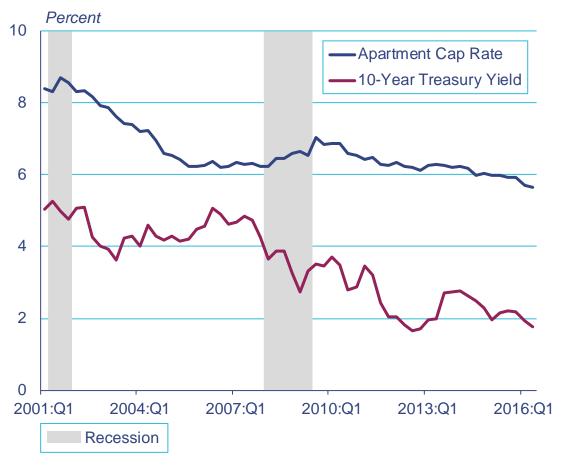


Note: The capitalization or "cap" rate is the ratio of net operating income produced by a property to the price paid, calculated at the time of a transaction. Thus, aggregate cap rate statistics only include cap rates from recent sales.



Figure 9: U.S. Apartment Capitalization Rate and Ten-Year Treasury Yield

2001:Q1 - 2016:Q2



Note: The capitalization or "cap" rate is the ratio of net operating income produced by a property to the price paid, calculated at the time of a transaction. Thus, aggregate cap rate statistics only include cap rates from recent sales.



Figure 10: Foreign Capital Invested in U.S. Commercial Real Estate

2001:Q1 - 2016:Q2

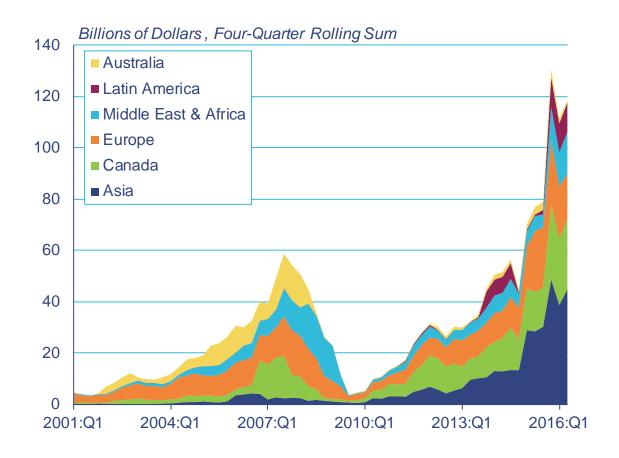
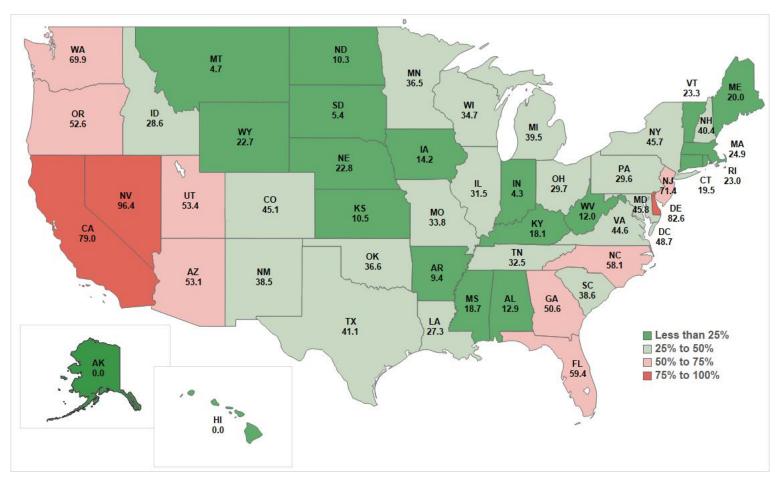




Figure 11: Share of Commercial Real Estate in Banks with CRE Greater than or Equal to 350% of Risk-Based Capital by State for Banks with Assets Under \$1 Billion

2016:Q1



Note: Loans secured by owner-occupied nonfarm nonresidential properties are included in the definition of commercial real estate for this analysis.

Source: Quarterly Call Reports

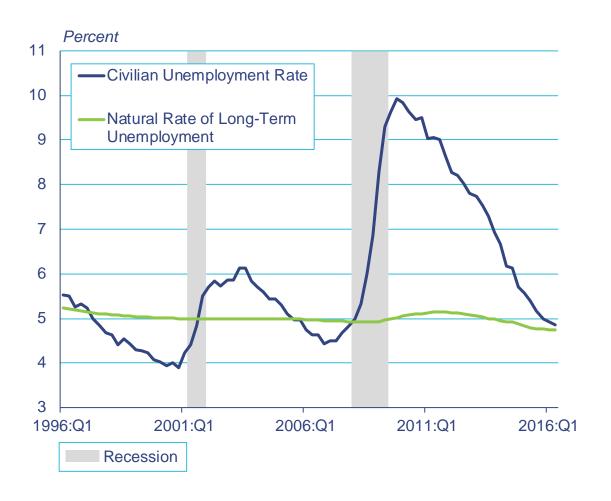


- ► Low rates help us reach inflation and employment goals more quickly but at what cost?
- ► Potential cost is increasing imbalances that result in a worse outcome in the future if an economic downturn occurs
- ► This trade-off may be particularly unfavorable when already close to achieving goals (full employment and inflation target)



Figure 12: U.S. Civilian Unemployment Rate and the Natural Rate of Long-Term Unemployment

1996:Q1 - 2016:Q2



Risk if Financial Conditions Change

- Commercial real estate has been appreciating
 - Rents rising rapidly
 - Occupancy rates high
 - Interest rates low
- ► How might prices and the economy react if these factors become less favorable, or are reversed?
- ► Such a revaluation could make a downturn more severe – i.e., missing our goals by more in the next downturn – than if normalization had occurred more rapidly

Concluding Observations

- Central banks need to achieve their goals not only at the current time, but through time
- Weigh benefits of low interest rates now against potential costs for the future of creating imbalances now
- Commercial real estate currently an attractive asset class in the U.S., but could become a concern should conditions change in an economic downturn