U.S. Real Estate Chart Book: Cycle Questions

MAY 2015





Austin | Los Angeles | Orlando | Washington, D.C.

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RCLCO's Institutional Advisory Services group provides services to commercial real estate owners in the areas of:

- Portfolio analysis, investment policies, and pacing plans
- Fund analysis and manager selection
- Investment and hold/sell analyses
- Asset management
- Market analysis, target markets, and independent research

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U.S. Apartment: Market Risk Indicator

	Net Absorption % of Stock Current* Quarter	Completions % of Stock Current* Quarter**	Under Constr % of Stock Current* Quarter***	Occupancy****	Q-o-Q Occupancy Change	Y-o-Y Occupancy Change	Q-o-Q Rent Growth	Y-o-Y Rent Growth
Atlanta	0.4%	0.2%	2.1%	94.5%	0.2%	0.3%	0.7%	3.9%
Austin	0.7%	0.9%	6.9%	94.4%	(0.1%)	(1.0%)	0.6%	4.3%
Chicago	0.2%	0.3%	1.5%	96.5%	(0.1%)	0.1%	0.4%	2.7%
Dallas	0.5%	0.4%	3.7%	95.3%	0.2%	0.0%	0.8%	4.6%
Denver	0.5%	0.7%	5.9%	95.6%	(0.1%)	(0.7%)	0.7%	7.4%
District of Columbia	0.4%	0.2%	5.6%	93.4%	0.2%	(1.0%)	0.1%	1.8%
Houston	0.6%	0.6%	4.8%	94.2%	0.0%	(0.3%)	1.0%	5.2%
Los Angeles	0.2%	0.1%	1.9%	96.8%	0.0%	(0.1%)	0.6%	2.7%
Miami	0.0%	0.0%	4.8%	96.3%	0.1%	0.2%	0.8%	5.0%
Minneapolis	0.3%	0.2%	3.2%	97.1%	0.1%	(0.2%)	0.6%	3.3%
New York Metro	0.3%	0.2%	13.2%	96.9%	0.1%	(0.3%)	0.4%	2.7%
Orange County	0.2%	0.0%	2.2%	97.6%	0.2%	0.3%	0.6%	3.6%
Orlando	0.3%	0.2%	2.4%	94.5%	0.1%	(0.5%)	1.0%	4.2%
Philadelphia	0.2%	0.1%	2.1%	96.9%	0.1%	0.3%	0.6%	2.9%
Phoenix	0.7%	0.3%	2.8%	95.6%	0.3%	0.6%	1.0%	3.9%
San Diego	0.1%	0.2%	1.9%	97.5%	(0.1%)	0.1%	0.0%	2.4%
San Francisco	0.4%	0.4%	3.9%	96.5%	0.0%	(0.3%)	1.9%	7.6%
San Jose	0.3%	0.2%	5.9%	97.6%	0.2%	0.0%	1.4%	8.2%
Seattle	0.6%	0.2%	5.3%	95.7%	0.3%	(0.3%)	0.8%	5.6%
Suburban Maryland	0.3%	0.0%	3.7%	96.3%	0.3%	0.0%	0.4%	2.6%
Suburban Virginia	0.6%	0.7%	4.4%	95.6%	0.0%	(0.2%)	0.3%	2.1%
Tampa-St. Petersburg	0.3%	0.2%	1.8%	95.4%	0.1%	(0.1%)	0.9%	2.9%
United States	0.4%	0.3%	3.0%	95.8%	0.0%	(0.1%)	0.6%	3.6%

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*Current quarter defined as Q1 2015

**Completions highlighted in Red if above 0.25% of Stock

***Under Construction highlighted in Red if above 1% of Stock

****Green if above city's historical average since 1990

Note: Above data includes only market rate rentable apartment space

Note: The markets in the above chart are not necessarily MSAs or central cities, but are Reis-defined real estate markets.

Source: Reis, Inc.; RCLCO



U.S. Office: Market Risk Indicator

	Net Absorption % of Stock Current* Quarter	Completions % of Stock Current* Quarter**	Under Constr % of Stock Current* Quarter***	Occupancy****	Q-o-Q Occupancy Change	Y-o-Y Occupancy Change	Q-o-Q Rent Growth	Y-o-Y Rent Growth
Atlanta	(0.0%)	0.0%	0.8%	80.2%	0.0%	0.1%	1.4%	3.0%
Austin	0.5%	0.4%	7.9%	84.0%	0.2%	(0.2%)	1.0%	3.5%
Boston	0.3%	0.0%	2.5%	86.8%	0.3%	0.3%	0.6%	3.8%
Charlotte	(0.1%)	0.0%	2.3%	83.0%	(0.1%)	0.6%	0.7%	1.7%
Chicago	0.4%	0.2%	0.9%	81.8%	0.2%	0.5%	0.9%	3.2%
Dallas	0.4%	0.0%	4.0%	77.8%	0.4%	0.8%	1.6%	5.3%
Denver	(0.6%)	0.0%	1.8%	82.3%	(0.6%)	1.1%	1.1%	4.1%
District of Columbia	(0.0%)	0.0%	1.7%	90.7%	(0.1%)	0.5%	0.5%	3.0%
Houston	0.0%	0.8%	6.3%	84.9%	(0.7%)	(0.8%)	1.0%	5.2%
Los Angeles	0.3%	0.1%	1.1%	85.0%	0.2%	0.3%	0.6%	3.4%
Miami	(0.0%)	0.0%	0.7%	84.5%	0.0%	1.1%	1.0%	3.4%
Minneapolis	0.3%	0.0%	2.2%	83.7%	0.3%	0.8%	(0.1%)	0.6%
New York Metro	(0.1%)	0.1%	1.0%	90.4%	(0.1%)	0.3%	1.9%	5.1%
Orange County	0.1%	0.0%	0.5%	83.3%	0.1%	0.1%	1.2%	4.4%
Philadelphia	0.0%	0.0%	0.8%	86.3%	0.2%	0.1%	1.1%	3.2%
Phoenix	0.3%	0.1%	1.7%	74.9%	0.3%	0.0%	0.4%	2.5%
San Diego	0.6%	0.0%	1.1%	84.8%	0.7%	1.1%	0.7%	4.0%
San Francisco	0.4%	0.0%	4.3%	88.7%	0.4%	1.6%	1.1%	6.1%
San Jose	1.2%	0.8%	6.1%	82.9%	0.6%	0.9%	2.2%	7.2%
Seattle	0.3%	0.4%	6.1%	87.5%	0.0%	1.2%	3.3%	6.4%
Suburban Maryland	0.2%	0.0%	0.4%	83.7%	0.2%	(0.6%)	0.6%	1.5%
Suburban Virginia	(0.3%)	0.0%	2.0%	82.2%	(0.3%)	(0.7%)	0.2%	1.0%
United States	0.2%	0.1%	1.7%	83.4%	0.1%	0.3%	1.0%	3.3%

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*Current quarter defined as Q1 2015

**Completions highlighted in Red if above 0.25% of Stock

***Under Construction highlighted in Red if above 1% of Stock

****Green if above market's historical average since 1990

Note; Above data does not include Medical Office

Note: The markets in the above chart are not necessarily MSAs or central cities, but are Reis-defined real estate markets. *Source: Reis, Inc.; RCLCO*

U.S. Retail (N/C Centers): Market Risk Indicator

	Net Absorption % of Stock Current* Quarter	Completions % of Stock Current* Quarter**	Under Constr % of Stock Current* Quarter***	Occupancy****	Q-o-Q Occupancy Change	Y-o-Y Occupancy Change	Q-o-Q Rent Growth	Y-o-Y Rent Growth
Atlanta	0.1%	0.0%	0.0%	87.2%	0.1%	0.6%	(0.1%)	0.5%
Chicago	0.2%	0.0%	0.5%	87.6%	0.1%	0.5%	0.8%	0.9%
Dallas	0.8%	0.8%	1.6%	87.8%	0.0%	0.7%	0.3%	1.8%
Denver	(0.1%)	0.0%	0.6%	89.3%	(0.1%)	0.2%	0.5%	1.0%
Houston	0.6%	0.3%	1.0%	88.7%	0.3%	0.5%	0.8%	3.1%
Los Angeles	0.0%	0.0%	0.8%	94.1%	0.0%	0.2%	1.1%	3.6%
Miami	1.2%	1.2%	0.0%	93.3%	0.1%	0.4%	0.5%	4.0%
Minneapolis	0.2%	0.0%	0.8%	88.4%	0.1%	(0.4%)	0.1%	1.7%
Orange County	0.3%	0.0%	0.5%	95.1%	0.3%	0.5%	1.0%	2.6%
Orlando	0.2%	0.2%	0.2%	88.4%	0.1%	0.8%	0.2%	2.1%
Phoenix	0.0%	0.1%	0.0%	89.7%	(0.1%)	0.2%	0.4%	2.1%
San Diego	0.1%	0.0%	0.0%	93.9%	0.1%	0.2%	0.1%	2.9%
Seattle	0.2%	0.0%	0.0%	93.5%	0.3%	0.8%	0.7%	1.4%
United States	0.2%	0.1%	0.8%	89.9%	0.1%	0.3%	0.5%	2.0%

*Current quarter defined as Q1 2015

**Completions highlighted in Red if above 0.25% of Stock

***Under Construction highlighted in Red if above 1% of Stock

****Green if above city's historical average since 1990

Note: Above data includes only Neighborhood/Community centers; does NOT include power centers, regional malls, or lifestyle retail centers Note: The markets in the above chart are not necessarily MSAs or central cities, but are Reis-defined real estate markets. Source: Reis, Inc.; RCLCO



U.S. Warehouse: Market Risk Indicator

	Net Absorption % of Stock Current* Year	Completions % U of Stock Current* Year**	Inder Constr % of Stock Current***	% Occupancy****	Q-o-Q Occupancy Change	Y-o-Y Occupancy Change	Q-o-Q Rent Growth	Y-o-Y Rent Growth
Atlanta	1.3%	0.8%	1.7%	86.2%	0.3%	0.7%	1.0%	3.6%
Baltimore	3.1%	2.8%	1.3%	90.3%	0.3%	1.0%	0.6%	1.7%
Boston	0.8%	0.2%	0.0%	89.7%	0.2%	0.5%	0.4%	0.9%
Central New Jersey	2.4%	2.4%	0.8%	89.5%	0.2%	0.2%	0.4%	1.3%
Chicago	1.9%	1.0%	0.8%	86.9%	0.1%	0.7%	0.8%	3.1%
Dallas	3.3%	4.1%	3.4%	86.4%	0.7%	0.8%	0.8%	2.7%
Denver	0.6%	0.6%	0.6%	90.3%	0.1%	0.8%	0.5%	2.3%
Fort Lauderdale	0.8%	0.4%	1.1%	90.2%	(0.1%)	(0.2%)	0.2%	1.4%
Houston	2.2%	3.0%	2.0%	91.4%	0.0%	0.4%	1.1%	4.4%
Indianapolis	1.8%	2.7%	0.4%	88.5%	0.1%	0.2%	0.0%	0.6%
Los Angeles	1.2%	0.2%	0.3%	93.5%	0.2%	0.4%	0.5%	2.7%
Memphis	0.7%	0.8%	0.0%	83.9%	(0.2%)	0.1%	0.4%	2.7%
Miami	1.7%	1.5%	0.3%	92.8%	(0.4%)	0.2%	0.3%	1.6%
Northern New Jersey	1.0%	0.8%	0.3%	88.3%	0.2%	0.4%	0.4%	1.0%
Oakland-East Bay	1.2%	1.3%	1.6%	89.7%	(0.2%)	0.8%	0.2%	2.4%
Orange County	0.1%	1.0%	0.1%	90.7%	0.3%	0.9%	0.5%	1.6%
Phoenix	1.5%	1.5%	0.7%	83.1%	0.2%	(0.4%)	0.8%	2.5%
San Bernardino/Riverside	2.1%	3.2%	2.2%	88.8%	(0.5%)	(0.2%)	0.8%	4.0%
San Diego	1.6%	0.4%	0.0%	90.2%	0.4%	1.1%	0.6%	0.9%
San Francisco	0.7%	0.0%	0.0%	92.3%	0.2%	1.5%	0.3%	1.5%
Seattle	0.6%	0.5%	2.2%	91.3%	0.2%	0.9%	0.5%	1.6%
United States	1.4%	1.2%	0.5%	88.8%	0.1%	0.4%	0.7%	2.1%

*Current quarter defined as Q1 2015; current year defined as 2014.

**Completions highlighted in Red if above 1% of Stock

***Under Construction highlighted in Red if above 1% of Stock

****Green if above city's historical average since 1990

Note: Above data includes only Warehouse's; does NOT include other industrial buildings

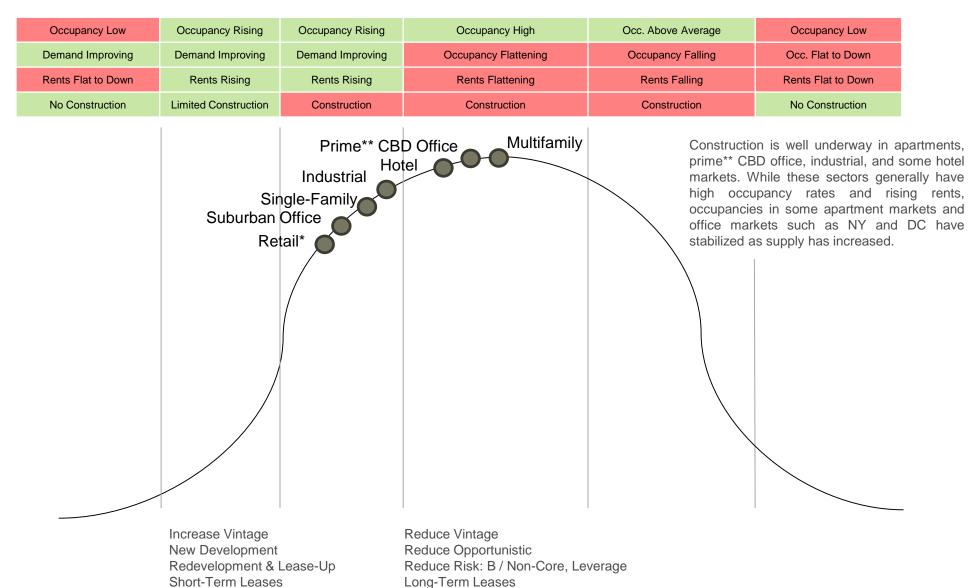
Note: The markets in the above chart are not necessarily MSAs or central cities, but are Reis-defined real estate markets.

Source: Reis, Inc.; CoStar; RCLCO

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The Real Estate Cycle



*neighborhood & community centers **includes New York, Washington, D.C., San Francisco, Seattle, Los Angeles, and Boston

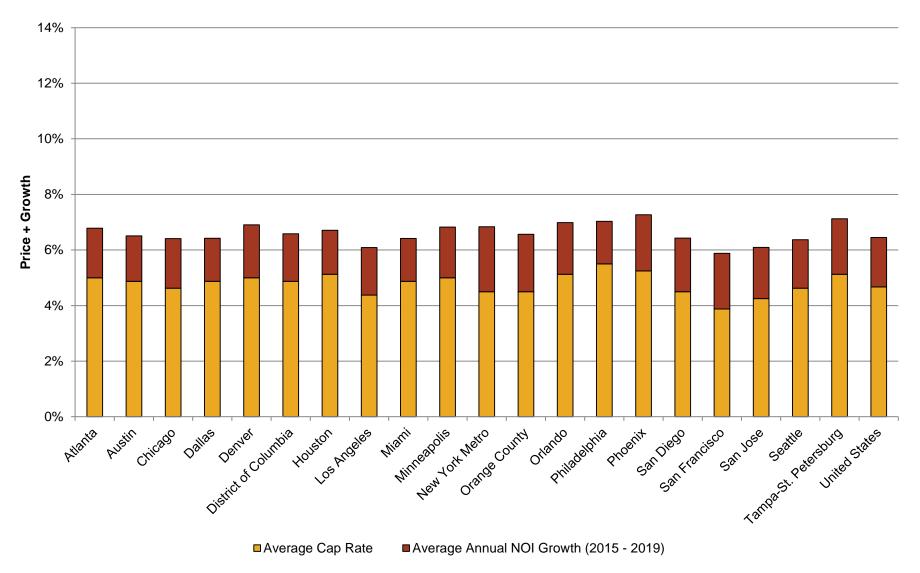
Source: RCLCO

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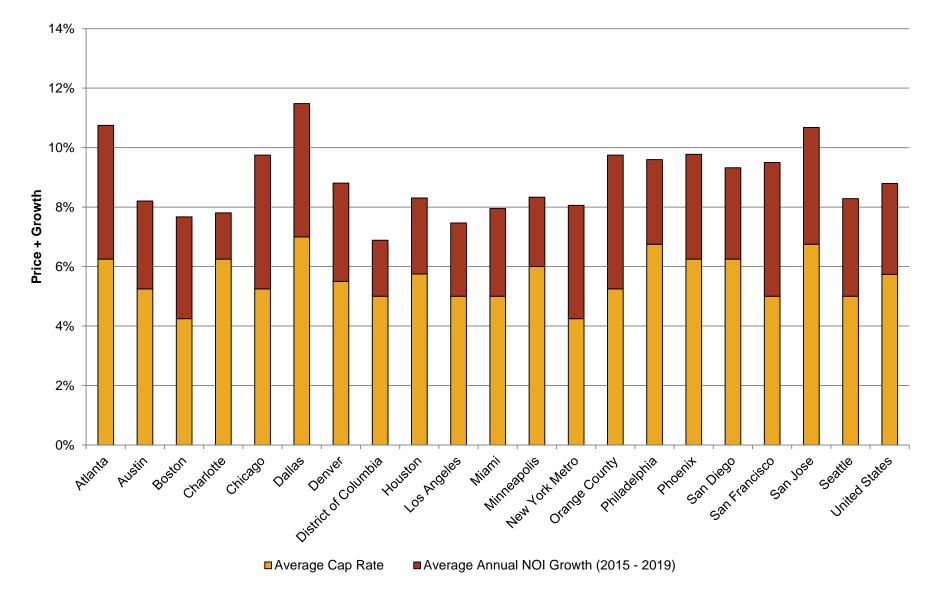
Apartment Price + Growth



Source: Reis, Inc.; CBRE; RCLCO

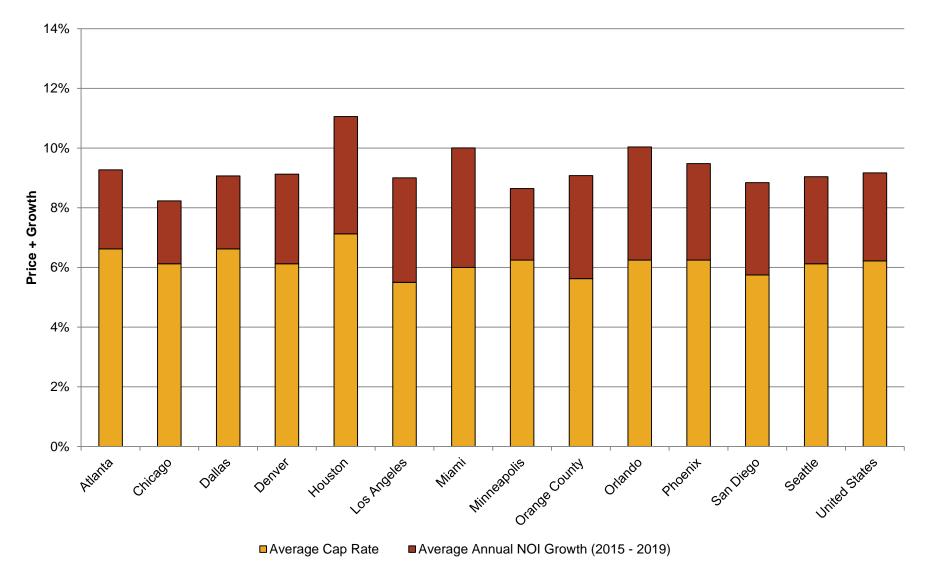
RCLCO

Class A Office Price + Growth



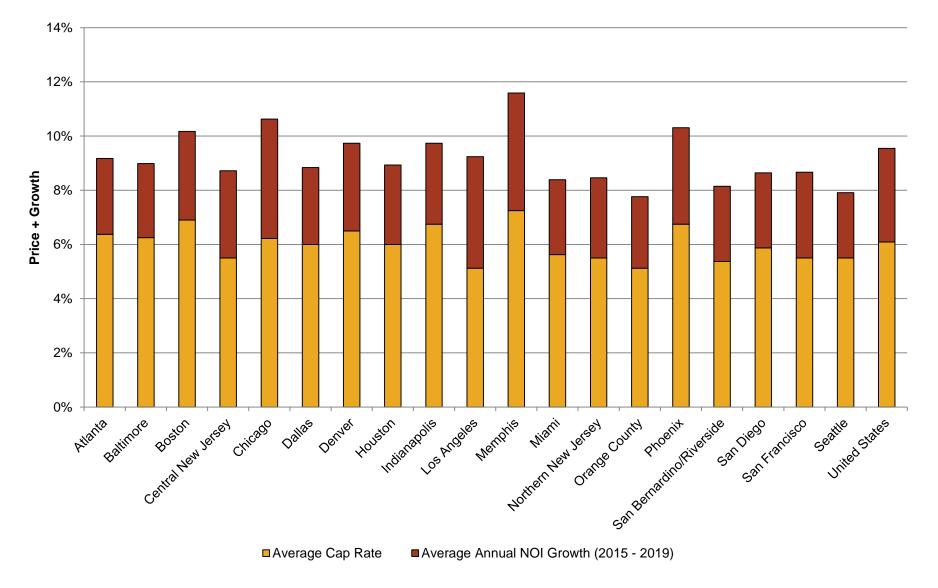
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N/C Retail Price + Growth





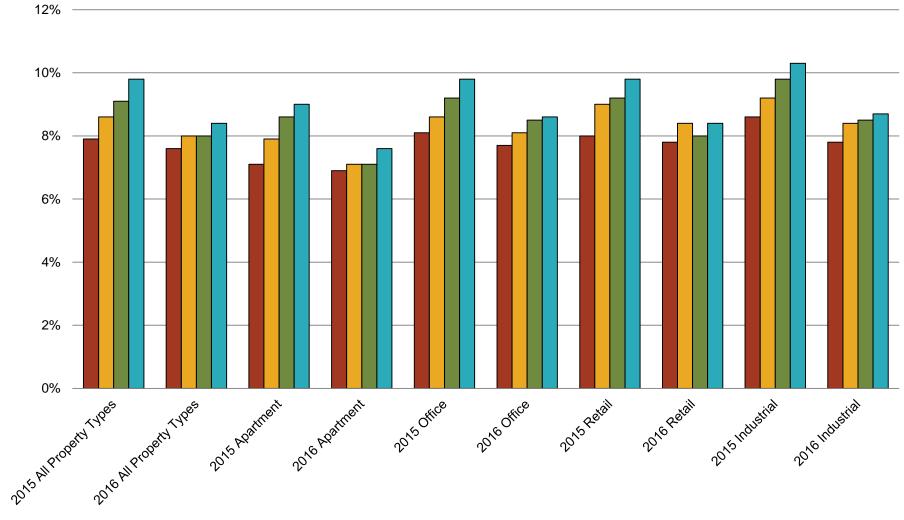
Industrial Apartment Price + Growth



Source: Reis, Inc.; CBRE; RCLCO

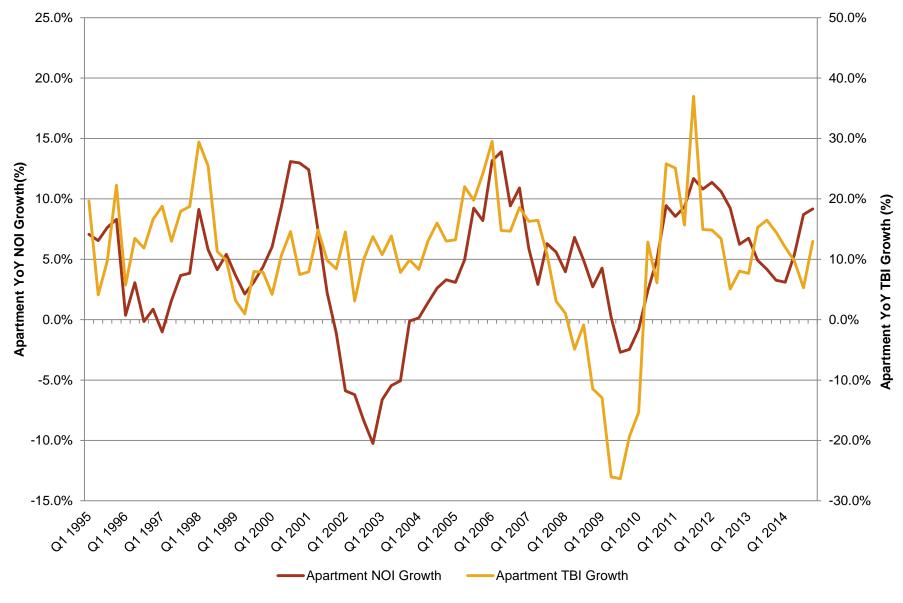


PREA NCREIF Projections



■2014 Q2 ■2014 Q3 ■2014 Q4 ■2015 Q1

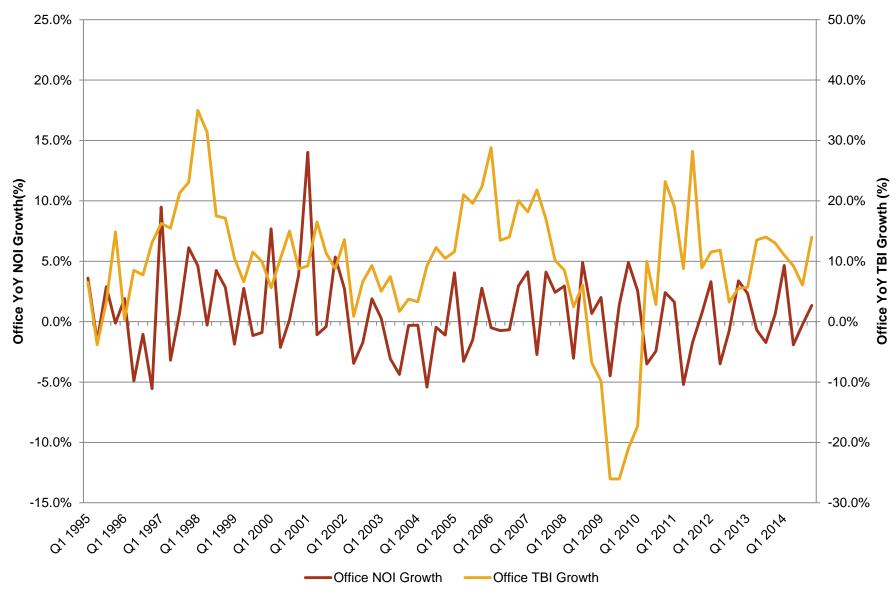
Source: Reis, Inc.; CBRE; RCLCO



Apartment NOI Growth; Apartment TBI Growth

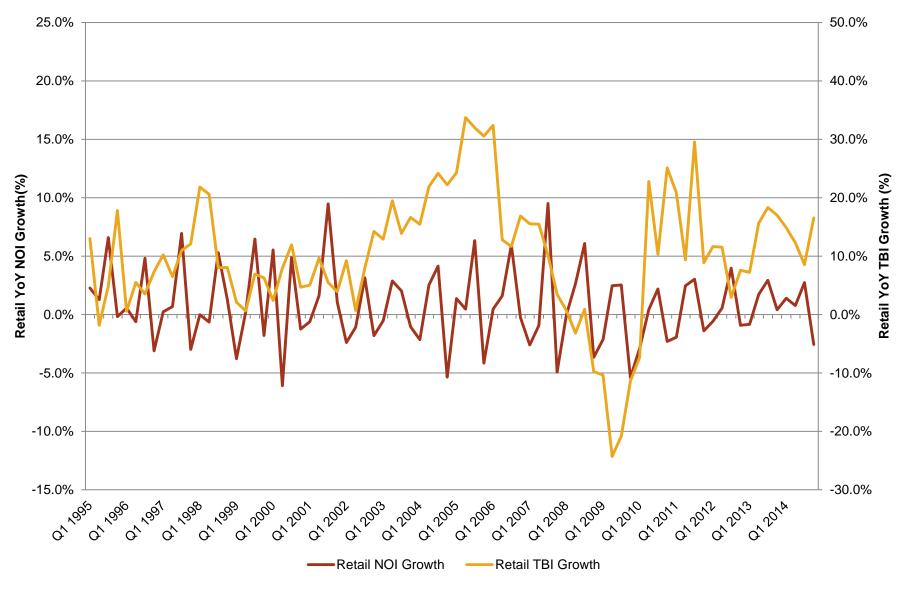
Source: NCREIF; RCLCO

Office NOI Growth; Office TBI Growth

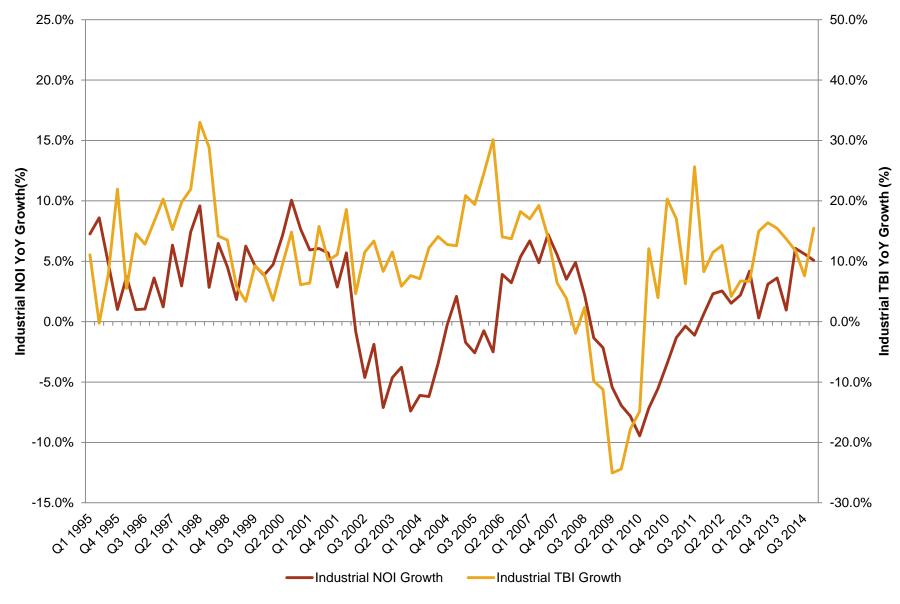


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Industrial NOI Growth; Industrial TBI Growth

Source: NCREIF; RCLCO



Apartment Occupancy Growth Begins to Level Off

Source: Reis, Inc.; NCREIF; RCLCO



Overall Office Occupancy Rates Slow to Recover

Source: Reis, Inc.; NCREIF; RCLCO



Retail Occupancy Continues to Increase Slowly

Source: Reis, Inc.; NCREIF; RCLCO



Industrial Occupancy Continues to Increase

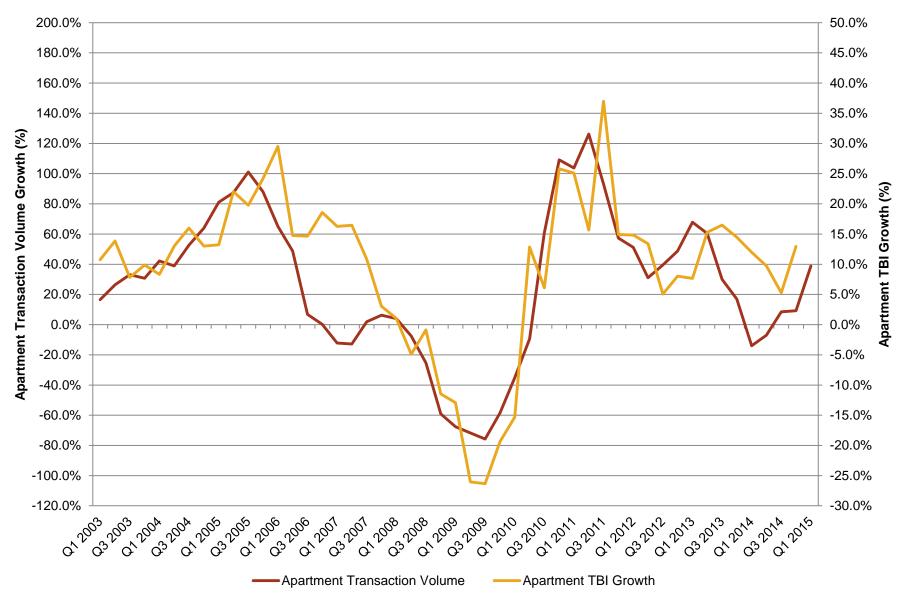
Source: Reis, Inc.; NCREIF; RCLCO



Apartment Construction Cost Growth Slowing With Rental Rates

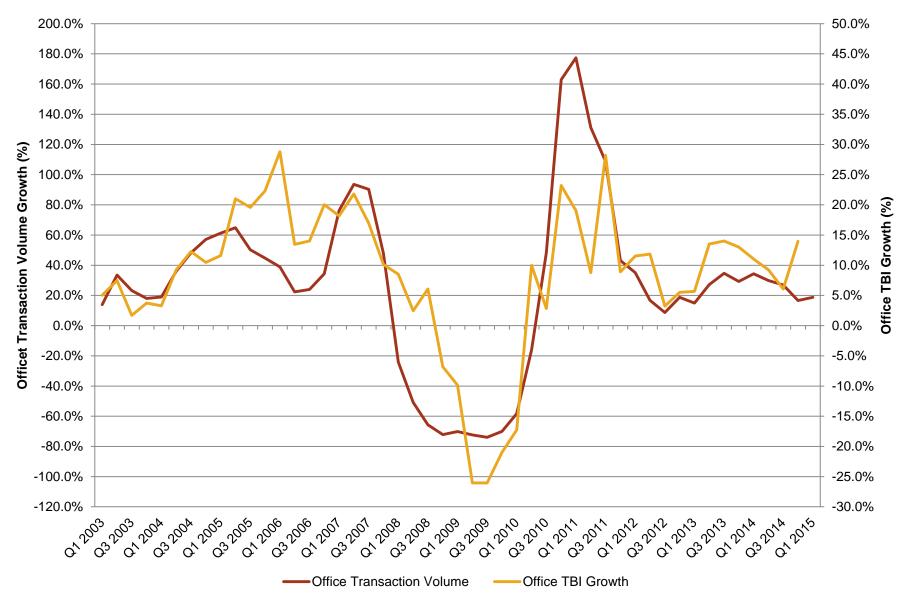
NOTE: While construction cost and apartment rent figures in the above graph reflect the situation in the Seattle MSA, we believe that they adequately reflect the situation in the U.S. apartment market as a whole. Source: Reis, Inc.; NCREIF; Marshall & Swift RCLCO

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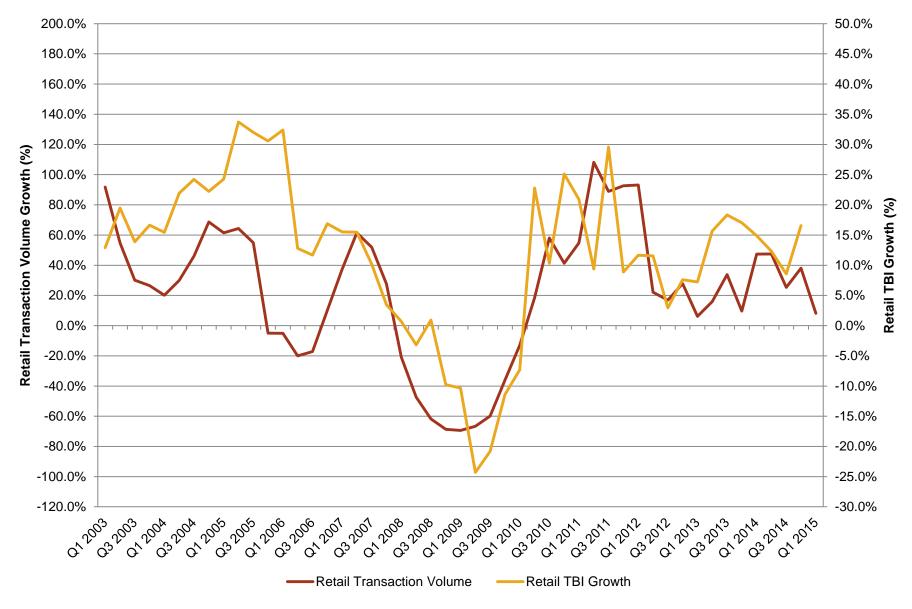
Apartment Transaction Volume Growth; Apartment TBI Growth

Source: RCA; NCREIF; RCLCO



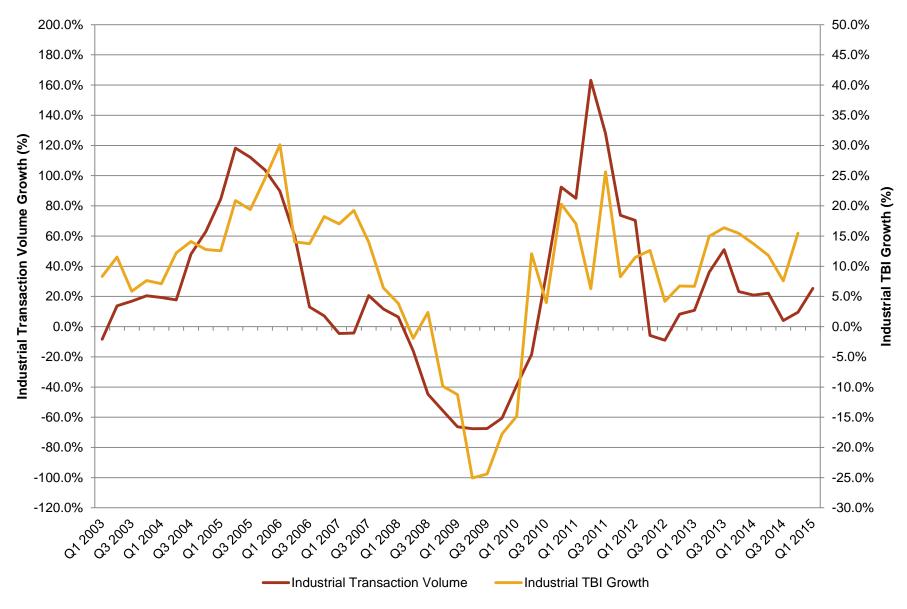
Office Transaction Volume Growth; Office TBI Growth

Source: RCA; NCREIF; RCLCO



Retail Transaction Volume Growth; Retail TBI Growth

Source: RCA; NCREIF; RCLCO



Industrial Transaction Volume Growth; Industrial TBI Growth

Source: RCA; NCREIF; RCLCO

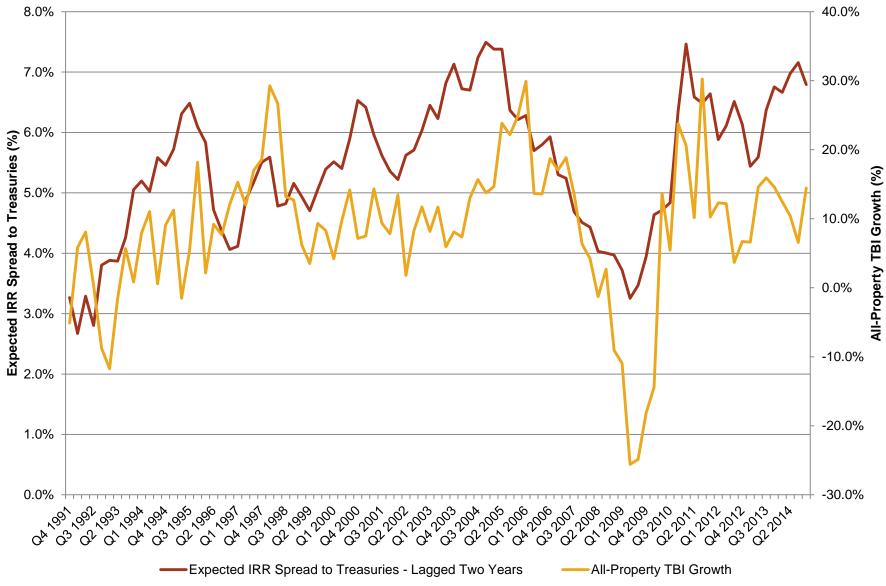
Expected IRR and 10 Year Treasury Yields, 1989 – 2015 Q1, All Property Types



Source: RERC; Federal Reserve; RCLCO



Expected IRR Spread to 10 Year Treasury Yields – Lagged Two Years; NPI and TPI Index Growth



Source: RERC; Federal Reserve; NCREIF; RCLCO





Historical US Cap Rates; RCLCO Regression Estimated Cap Rate

Source: Moody's Analytics; RCA; Federal Reserve; BLS; RCLCO

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