

Green Street Advisors

— REAL ESTATE ANALYTICS -

U.S. APARTMENT OUTLOOK



- JANUARY 16, 2019 -

IMPORTANT DISCLOSURE ON PAGE 42

Executive Summary

Overview

Apartment operating fundamentals reaccelerated modestly in '18, as outstanding job growth helped absorb another year of elevated new construction. Rental demand drivers remain favorable and will continue to support positive apartment fundamentals early into the next decade. Nevertheless, the demand versus supply balance in most markets should soften over the next five years as the U.S. economy adds fewer jobs, demographic cracks start to appear, and developers continue to build in earnest. Pockets of oversupply, which have been limited for much of this cycle, should become more prevalent under a different demand light. We expect pricing power in gateway markets to modestly outperform non-gateway markets over the next five years due to lower supply growth and a much tougher path to homeownership.

Despite rising interest rates in '18, cap rates held steady or edged slightly lower in most markets. The transaction market enjoyed plenty of liquidity throughout '18, which appears likely to continue in '19. Apartments remain a readily financeable asset class, and the private market affinity for U.S. multifamily from both domestic and foreign capital sources is showing no signs of abating. Within a commercial real estate world where most property types are expected to generate inflation or sub-inflation NOI growth and cap rates remain historically low, unlevered return expectations for apartments screen attractively versus most property types.

Key Takeaways

ur 5-year base	case economic outlook is characterized by positive, but slowing GDP growth (~1.9%)
	This report is a Real Estate Analytics product.
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I. U.S. Apartment Outlook Summary

Low-Growth World: Apartment M-RevPAF* growth reaccelerated in '18, exceeding our initial expectations set a year ago by ~100 bps, largely due to outstanding job growth in most markets. We expect similar landlord pricing power in '19, but a moderation in growth toward sub-inflation levels early next decade. New supply will not slow meaningfully over the near-term, and demand drivers, including employment and demographic trends should soften.

U.S. Apartment Market-RevPAF* Growth - Top 50

Client Access Only

95 '96 '97 '98 '99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15 '16 '17 '18 '19E'20E'21E'22E'23E

Market-RevPAF Growth Momentum

(2019E vs. 2018)



*M-RevPAF growth combines changes in effective rents and occupancies into a single measure.

Source: CBRE and Green Street Advisors.

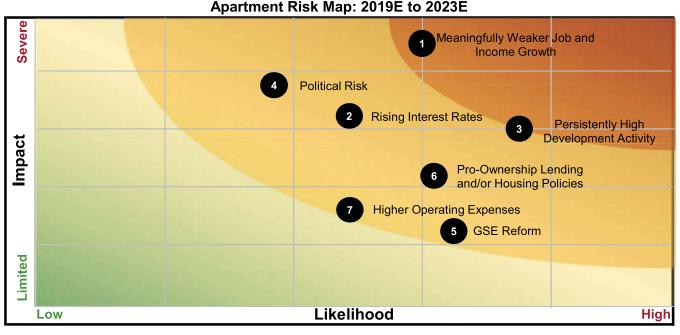
I. U.S. Apartment Outlook Summary (cont'd)

M-Re	evPAF Growth	● ' 19E □	■ '19E-'23E	Employment Growth '19E - '23E	Supply Growth '19E - '23E	M-RevPAF Growth Rank '19E - '23E	5-Yr Forecast Δ in Rank
4.20		102	5.1%		++	1	24
3.30			3.6%	++		2	12
0.0	0					· -	
		This rope	ort is a Real E	Ectato Anal	utics produ	ıct	
		iiiis iepo	nt is a near i	-state Ariai	ytics produ	Ct.	
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Rank:	1-10 ++	11-20 +	21-30	31-40 _	41-52	-	

Source: CBRE, IHS, and Green Street Advisors. Forecasts represent annualized numbers.

II. Major Risk Factors

Avoiding Potholes: Times are still relatively good for apartment owners versus many property types, despite expected rent growth deceleration. Nevertheless, risks always remain, and the following issues bear watching in the coming years due to their potential impact on operating fundamentals and/or asset values. Relative to earlier in the cycle, regulatory risk to apartments (namely rent control/stabilization) is increasing and will continue to receive plenty of focus in '19.

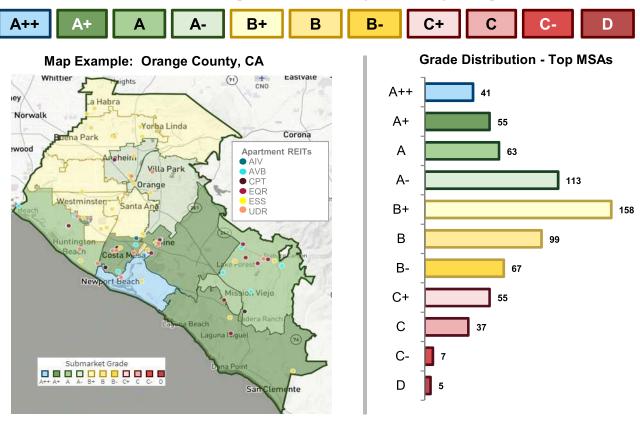


Job growth in '18 beat our expectations handily, allowing for the orderly absorption of elevated new supply in nearly every major metro. Should job growth slow meaningfully, landlords and investors will see more pockets of oversupply as new deliveries are expected to continue relatively unfettered. Oakland, Seattle, Charlotte, Dallas, and Austin screen most at-risk of over supply in '19 if job growth takes a leg down.

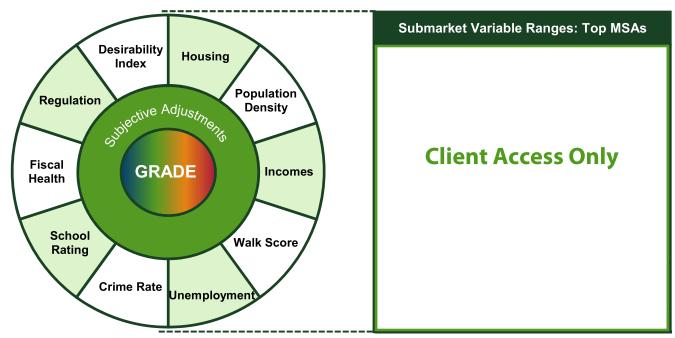


Appendix C: Apartment Submarket Grades

Submarket Grades: Green Street assigns letter grades to 700 submarkets across the top 52 MSAs. Grades range from A++ to D, and are meant to represent relative long-term rent growth potential.



Variables: Grades are based on ten variables at the zip code level and then rolled up by submarket. Variable weightings are proprietary, and some grades include a subjective adjustment.



Source: GreatSchools, IHS, U.S. Census Bureau, Walk Score, and Green Street Advisors.

Atlanta



Apartment Market Snapshot - 2/1/2019

Market Grade	
В	

Risk						
Volatility Beta						
High	1.0					

CPPI							
Index YoY Δ							
148.1	5.7%						

Cap Rate				
Current YoY △				
5.5%	-5 bps			



LT NOI Growth
0.6%

Risk Adj. IRR 5.7%

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MARKET METRICS

Metric	Current	Rank of 52
Avg. Effective Rents	\$1,210	30
Occupancy	94.7%	45
YOY M-RevPAF Growth	4.3%	14 •••
YOY Job Growth	2.5%	• 15 •••
Median Income	\$69k	29 ••
Homeownership Rate	54.7%	27 ••
Med. Home Price	\$210k	••• 37 •
Apartment Units	433,000	7
Households	2,301k	6

COMMENTARY

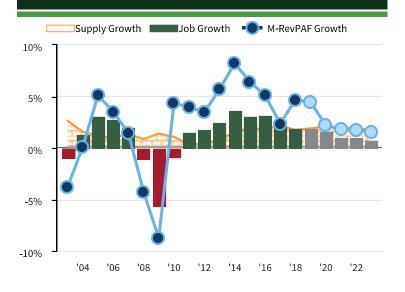
Atlanta: Home to UPS, Delta Airlines, and Coca-Cola, Atlanta has established itself as a pro-business city which continues to support healthy job growth. Buckhead and Midtown offer a desirable lifestyle with walkable neighborhoods, strong transportation systems, and proximity to workplaces, resulting in increased millennial and overall rent demand. Given Atlanta's strong demand profile, near-term M-RevPAF growth is likely to be above the national average. Traffic congestion continues to be an issue; the city and state are investing \$2.5B to improve the MARTA system. Steady demand from employers and residents has been met with increased supply, specifically in the underutilized Downtown submarket, including a \$5B redevelopment in the Gulch area, which will add 1,000 residential units. Further, as developers continue to find success in rezoning opportunities, Atlanta's low-barrier environment keeps a lid on long-term NOI growth.

TOP 10 EMPLOYERS

- Delta Air Lines
- **Emory University**
- The Home Depot
- Gwinnett County Public Schools
- WellStar Health System
- AT&T
- UPS
- Northside Hospital
- Piedmont Healthcare
- · Marriott International

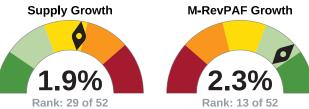
- · Large university presence creates strong talent pool
- 14 Fortune 500 companies are headquartered in Atlanta
- · Growing millennial population
- Rent concessions remain elevated above national levels
- Affordable home prices encourages homeownership
- Traffic congestion

SUPPLY AND DEMAND



5-YEAR FORECASTS (Growth Rates Annualized; Rankings 1-52 w/ 1 being best)



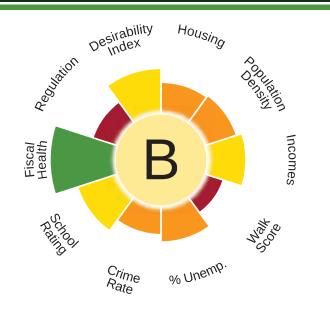


Sources: BLS, CBRE, IHS, U.S. Census Bureau, and Green Street Advisors.

Apartment Market Snapshot - 2/1/2019



MARKET GRADE







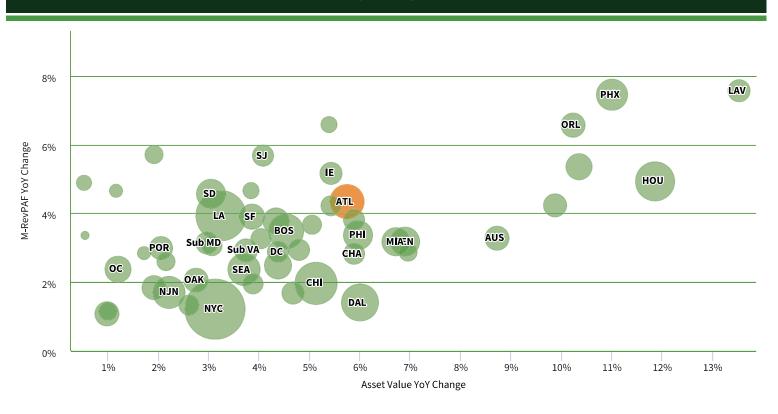
TOP 15 SUBMARKETS (RANKED BY GRADE)

Submarket	Occ.	Rent	Med. Home Price	Affordability	Pop/Sq. Mi.	Med. HHI	Walk Score	Description	% Unemp.	Crime Rate	School Rating	Grade
1 Midtown	93.2%	\$1,660	\$274k	Neutral	8,330	\$73k	78	Very Walkable	3.5%	57	3.5	A
2 Buckhead	93.5%	\$1,700	\$478k	Very Expensive	4,150	\$92k	62	Somewhat Walkable	2.7%	41	7.7	A
3 Cumberland	93.4%	\$1,340	\$618k	Very Expensive	1,840	\$120k	23	Car-Dependent	2.1%	44	8.7	A-
4 Alpharetta / Roswell	93.9%	\$1,270	\$356k	Expensive	1,920	\$100k	21	Car-Dependent	3.9%	31	8.4	A-
5 Sandy Springs / Dunwoody	93.5%	\$1,280	\$396k	Expensive	3,140	\$78k	27	Car-Dependent	4.3%	49	6.8	B+
6 Northeast	94.5%	\$1,270	\$366k	Expensive	3,550	\$70k	38	Car-Dependent	3.7%	51	6.3	B+
7 Peachtree Corners	94.1%	\$980	\$247k	Neutra l	2,650	\$58k	27	Car-Dependent	5.6%	52	6.7	B+
8 Marietta	94.7%	\$1,070	\$235k	Cheap	2,340	\$76k	21	Car-Dependent	5.5%	41	7.1	B+
9 Smyrna	94.5%	\$1,090	\$225k	Cheap	4,210	\$64k	37	Car-Dependent	4.5%	61	4.3	B+
10 North DeKalb	94.0%	\$1,200	\$251k	Neutral	3,420	\$61k	36	Car-Dependent	6.9%	54	5.6	B+
11 Gwinnett	94.3%	\$1,100	\$208k	Cheap	1,940	\$74k	18	Car-Dependent	5.4%	38	7.6	B+
12 Downtown	90.1%	\$1,150	\$196k	Neutral	8,220	\$36k	82	Very Walkable	16.8%	84	2.5	В
13 West	94.1%	\$1,090	\$151k	Very Cheap	1,030	\$58k	16	Car-Dependent	7.9%	50	5.3	B-
14 Airport / South	94.2%	\$950	\$154k	Very Cheap	1,010	\$55k	22	Car-Dependent	9.3%	60	4.7	B-
15 South DeKalb	93.3%	\$890	\$124k	Very Cheap	2,030	\$52k	21	Car-Dependent	10.0%	61	3.3	В-
Atlanta	94.7%	\$1,210	\$210k	Cheap	1,590	\$67k	22	Car-Dependent	6.7%	48	5.8	В

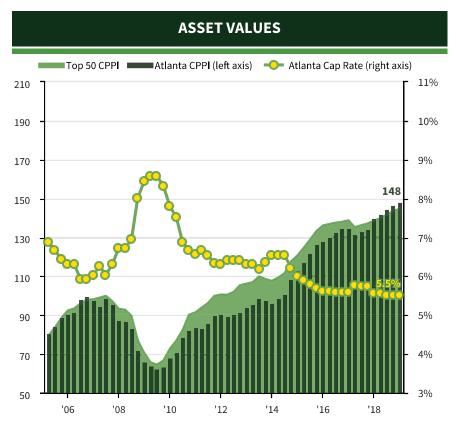
Sources: GreatSchools, U.S. Census Bureau, Walk Score, and Green Street Advisors.



MOMENTUM

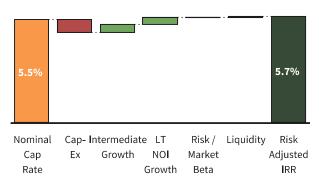


Note: Size of bubble represents size of market.







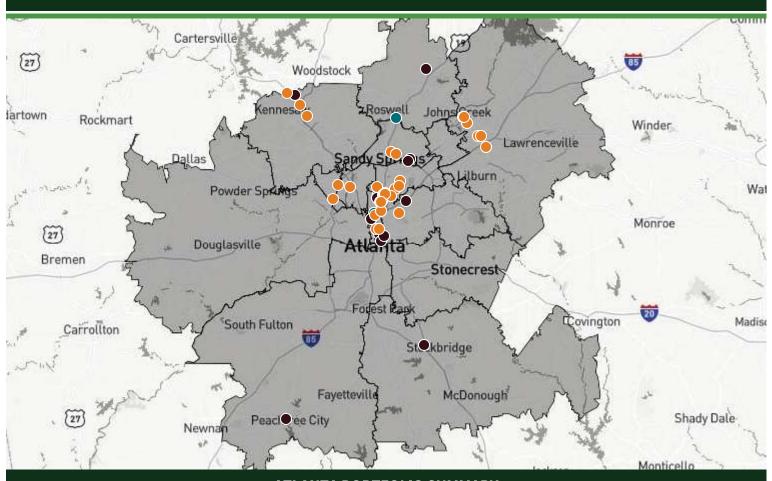


Source: Green Street Advisors.

Apartment Market Snapshot - 1/17/2019







ATLANTA PORTFOLIO SUMMARY

Name	Submarket Grade	Zip Code Grade	% of REIT NOI	# Props	Units	Nominal Cap Rate
	В+	A-	13%	29	10,300	5.3%
Camden Prop Trust	B+	A-	9%	14	4,500	5.2%
(a) AIMCO	A-	A	2%	5	800	5.1%

Total REIT Exposure 3% 5.2%

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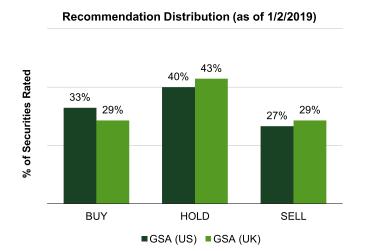
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Total Ne	turn or Greet	Jucetsivec	ommendation	15
Year ³	Buy	Hold	Sell	Universe
2	018 -5.1%	-6.6%	-9.2%	-7.0%
2	017 6.4%	0.2%	2.1%	2.6%
2	016 14.9%	14.7%	13.1%	14.4%
2	015 8.3%	0.9%	-1.7%	2.4%
2	014 41.6%	31.5%	27.3%	33.3%
2	013 4.1%	0.6%	1.7%	2.2%
2	012 24.5%	24.7%	18.9%	23.0%
2	011 18.9%	7.6%	-4.7%	7.6%
2	010 43.3%	32.8%	26.6%	33.8%
2	009 59.0%	47.7%	6.0%	37.9%
2	008 -28.1%	-30.9%	-52.6%	-37.3%
2	007 -6.9%	-22.4%	-27.8%	-19.7%
2	006 45.8%	29.6%	19.5%	31.6%
2	005 26.3%	18.5%	-1.8%	15.9%
2	004 42.8%	28.7%	16.4%	29.4%
2	003 43.3%	37.4%	21.8%	34.8%
2	002 17.3%	2.8%	2.6%	5.4%
2	001 34.9%	19.1%	13.0%	21.1%
2	000 53.4%	28.9%	5.9%	29.6%
1	999 12.3%	-9.0%	-20.5%	-6.9%
1	998 -1.6%	-15.1%	-15.5%	-12.1%
1	997 36.7%	14.8%	7.2%	18.3%
1	996 47.6%	30.7%	18.9%	32.1%
1	995 22.9%	13.9%	0.5%	13.5%
1	994 20.8%	-0.8%	-8.7%	3.1%
1	993 27.3%	4.7%	8.1%	12.1%
Cumulative Total Ret	urn 16034.3%	1088.0%	20.5%	1285.5%
Annualia	zed 21.7%	10.0%	0.7%	10.7%

Total Return of Green Street's Recommendations^{1,2}

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- (2) Beginning July 5, 2017, all companies in Green Street's North American coverage universe are included in the performance calculation. Previously, inclusion in the calculation of total return had been based on whether the companies were listed in the primary exhibit of Green Street's "Real Estate Securities Monthly" and had a rating other than "Not Rated".
- (3) From 1993 until July 3, 2017, the returns for each year cover the period following the first RESM issued in the respective year through the first RESM issued in the following year and are not based on a calendar year. Subsequent to July 5, 2017, returns are based on calendar months.

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