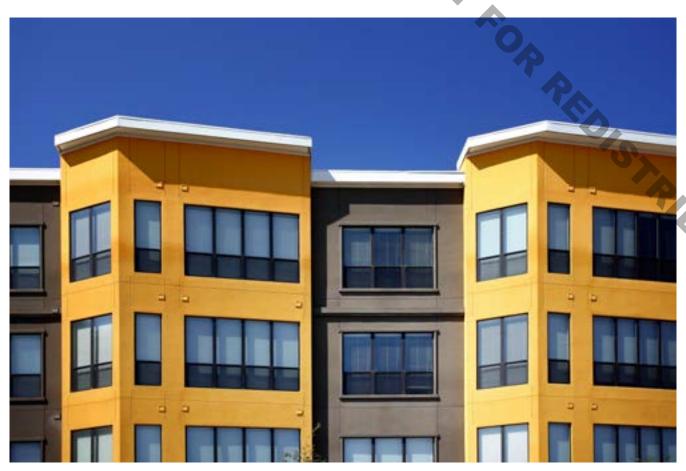


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We got a makeover – did you notice? Our goal is to improve and deliver quality services and publications consistently and we're excited to unveil new user-friendly Mid-Atlantic quarterly reports. Explore some of the changes we made and how to take advantage of the new layout below.

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Solid Start to the Year for the Region's Economy

Building on the growth schieved in 2015, the Nebbington area emocory confessed to ruly in 1st quietter 2016. Not growth, remarked strong, with 70,000 one jobs added in the region during the 13 manths ending Jonasey 2016. The Professional Parkets berriors senter again and the way with 16,200 one job additions. On the public side, Poderal and estatellical employment and persuavased hower shows an addition of the revoved years of declines.

The regional compalyment rate has continued to decline, and excel at 4.2% or of pionary 2011. This is 70 beam points believe both the region's 4.8% contral/growent rate in familiary 2011 and the current material rate of 4.9%. Committee prices in the region have begun to increase where being first though 2010. The regional Cytincreased 5.4% during the Li months ending tenoury 2010, thereby happy to many bousing, medical case, and education cores. The rate of growth for those prices has trained the national energy between 100-sep pions in the area increased by jour 1.7% in 2010, well below that tustional growth rate of 5.7%.

Staggish wags growth continues to be an area of concern, although we appert it to pick up later this year that to reasoned growth in the metro sent high-wags Professional-Business Environs sector. The purage of a bulend bright in late 2005 reasoned a major source of when them uncertainty and should help bolister the region's economic growth prospects. As economic output and labor themand increases, competition among firms for top takent will also drive wags growth.

The passage of a Federal budget in late ross removed a major source of short-term uncertainty and should help bolster the region's economic growth prospects.



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SUBSCRIPTION PUBLICATIONS — Delta produces quarterly publications on the apartment, condo, retail, and office markets. See our Publications page elsewhere in this report.

Check out The Delta Download, Delta's blog on current topics of interest to the real estate community.



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QUARTERLY PUBLICATIONS 6

MULTIFAMILY MARKET



MID-ATLANTIC CLASS A APARTMENT MARKET REPORT



A comprehensive report on apartment market conditions, focusing on the following indicators:

- National/regional economy analyses
- Regional condo market summary
- Regional apartment market summary
- Key market statistics for 49
 - submarkets and regional totals for:
 - Current rents and rent change
 - Vacancy
 - Concessions
 - Absorption
 - Development pipeline
 - Multifamily building and land sales



WASHINGTON METRO AREA CLASS B APARTMENT MARKET REPORT



A comprehensive report on apartment market conditions, focusing on the following indicators:

- National/regional economy analyses
- Regional apartment market summary
- Key market statistics for 30 submarkets and regional totals for:
 - Current rents and regional totals for
 - Vacancy
 - Concessions
- Renovation information including budget and timetable
- Multifamily building sales



WASHINGTON/BALTIMORE CONDOMINIUM MARKET REPORT



A comprehensive report on condominium market conditions, focusing on the following indicators:

- National/regional economy analyses
- Regional apartment market summary
- Regional condo market summary
- Key market statistics for 12 submarkets and regional totals for:
 - Sales trends for new and resale condo units
 - Historic condo unit price changes
 - Development pipeline
- Additional data including:
 - · Absorption pace
 - Multifamily building and land sales



PHILADELPHIA
CLASS A APARTMENT
MARKET REPORT



An executive summary-style report on apartment market conditions, focusing on the following indicators:

- National/Regional economy analyes
- Regional apartment market summary
- Key market statistics for all major submarkets and regional totals for:
 Current rents and rent change
 - Guiteiit feilts alla feilt ch
 - Vacancy
 - Concessions
 - $^{\circ}$ Absorption
 - Development pipeline
 - Multifamily building sales





WASHINGTON/BALTIMORE OFFICE MARKET REPORT



A comprehensive report on office market conditions, focusing on the following indicators:

- National/regional economy analyses
- Metropolitan area and substate area office market summaries
- Key market statistics (All Space and Class A Space) for all major submarkets
- Additional data including:
 - Supply/demand analysis
 - Rental rate and tenant improvements data
 - Average lease terms and operating expenses
 - Delivered, planned and proposed SF space
 - Building and land sales
 - Investment returns
 - Cap rate trends

ADDITIONAL OFFERINGS

COMPLIMENTARY REPORTS



WASHINGTON AREA RETAIL OUTLOOK

In this quarterly report, Delta provides a quantitative and qualitative assessment of the Washington area retail market, with a focus on grocery-anchored shopping centers. Information is included on vacancy rates, rents, investment sales, projects of interest, and key trends in the retail market.



WASHINGTON AREA HOUSING OUTLOOK

The Washington Area Housing Outlook is a quarterly report in which Delta provides an assessment of the region's single-family housing market, including data on pricing, sales volume, and days on market.

SUBSCRIPTION-BASED



ECONOMY REPORTS

Delta's newest offering, these quarterly overviews take an indepth look at the national and Mid-Atlantic metro area economies — Washington, Baltimore, and Philadelphia. Available individually or together, the overviews examine labor force data, GDP growth, interest rates, and employment changes from year to year.



MARKET MAKER SURVEY

This report is based on an annual survey of real estate, finance, and development experts and leaders in the Washington metro area. The results from the survey comprise this year-end report, which also addresses property performance, cap rate trends, investment returns, development costs, and business outlooks.



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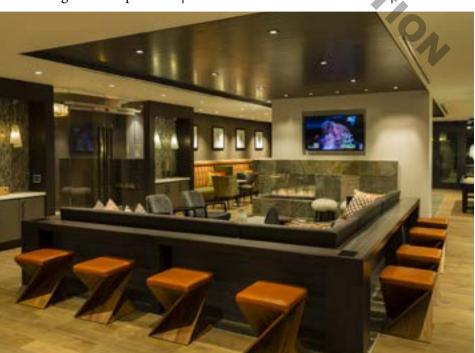
111 ROCKVILLE PIKE | SUITE 425 | ROCKVILLE, MD 20850

The design team used the grass lands and pond that were created on the property to design interiors that act as an extension of the outdoor spaces. Using colors and patterns of nature, the modern interiors echo the textures and organic shapes found in the natural environment. While considering our tech driven lifestyle, every finish and detail was carefully selected to create an interior that blends with the outdoors and supports the way we live in the modern world.

See more of Parc Meridian at Eisenhower Station.

Paradigm Companies | Architects Collaborative | Studio 39





annual events

[21ST ANNUAL] WASHINGTON TRENDLINES FEBRUARY 1, 2018

The 21st annual Washington TrendLines® event is planned for the evening of February 1, 2018 at the Ronald Reagan Building and International Trade Center in Washington, DC. TrendLines® is an invitation-only, annual presentation on the national and regional economy and commercial real estate market conditions, with an outlook for investment and development opportunities. This event will be co-sponsored by PNC Bank, Baker Tilly, and Transwestern. For an invitation to the 2018 event, or to learn more about our TrendLines presentations and reports, please send an email to Info@DeltaAssociates.com or visit TrendLinesDC.com.

[21ST ANNUAL]

WASHINGTON/ BALTIMORE
MULTIFAMILY MARKET
OVERVIEW & AWARDS FOR
EXCELLENCE

OCTOBER 25, 2017

The 21st annual Washington/Baltimore Multifamily Market Overview and Awards will be held on October 2017 at the National Housing Center in Washington, DC. To see the list of last year's award winners, or to download the market presentation, please visit the Multifamily Awards page on our website. Please send an email to Info@DeltaAssociates.com for an application to submit your project for our consideration for the 2017 awards.

UPCOMING SPEECHES & PRESENTATIONS BY DELTA EXECUTIVES

- Lecture at GMU: October 4, 2017
- Delta's 21st Annual Washington / Baltimore Multifamily Market Overview & Awards: October 25, 2017
- NVBIA: December 2017
- 5th Tysons Real Estate Breakfast Panel: January 2018
- Annual Washington TrendLines®: February 1, 2018

RECENT SPEECHES & PRESENTATIONS GIVEN BY DELTA EXECUTIVES

- Presentation to Vanke: June 20, 2017
- Presentation to the Government of the District of Columbia, Office of the Chief Financial Officer: February 8, 2017
- Annual Washington TrendLines® 2017: February 2, 2017
- Real Estate Market Update: Economic Outlook for Metro DC Real Estate 2017 and Beyond: January 19, 2017
- Cornell University Real Estate Council: January 10, 2017
- 5th Annual Future of Downtown Baltimore: Rejuvenating Baltimore's CBD: December 13, 2016
- On the Waterfront: The Sequel: November 10, 2016
- Delta's 20th Annual Washington / Baltimore Multifamily Market Overview & Awards: October 19, 2016





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U.S. Economy Rebounds But Policy Uncertainty Remains

As of the end of the third quarter of 2017, the U.S. economy remains in good shape thanks to strong consumer spending and job creation. During the 12 months ending August 2017, the national economy added a total of 2.1 million new jobs, including 156,000 in August 2017. Most employment sectors continue to see positive growth, and have been consistently adding new positions to meet renewed demand. Meanwhile, initial unemployment claims jumped to 268,750 in mid-September, and the national unemployment rate (seasonally adjusted) ticked up 10 basis points in August to 4.4%.

After yet another disappointing first quarter, real GDP rebounded markedly in the second quarter to 3.0%—the fastest pace of national economic expansion since the first quarter of 2015 and in line with our prior predictions. Consumers continue to propel the economy forward, with personal consumption increasing by 3.3% during the quarter. Looking ahead, we expect the disruption and damage caused by hurricanes Harvey, Irma, and Maria (HIM for short) to have an impact on economic growth in the third quarter, but the GDP growth rate will still be around 2.5%.

The Federal Open Market Committee (FOMC) has so far followed through on its plans for regular increases to the federal funds benchmark rate this year. It hiked interest rates by a quarter percent at both its March and June meetings, with another increase likely coming in December. In addition, the Fed has indicated that it will shortly proceed to normalize its balance sheets by winding down its security-purchase program. After an underwhelming spring, price inflation rebounded during the summer. The CPI for all urban consumers increased 1.9% over the 12 months ending August 2017, just shy of the Fed's 2.0% target.

Our economic outlook for the next several months remains bullish. The largest unknown regarding the future performance of the economy is public policy. After repeated failed attempts to repeal the Affordable Care Act (AKA Obamacare), congressional Republicans and President Trump have shifted their focus to long-awaited tax reform. The president's proposal to cut corporate taxes drastically from over 40% to 20% is likely to be watered down, as it would cost the government roughly \$1.5 trillion over a decade according to most estimates.

Job growth, while still robust, appears to be slowing to a less aggressive pace as labor slack shrinks. We expect positive payroll growth to continue for the time being, but believe that the days of 200,000 monthly net additions are in the rear-view mirror. Based on the Fed's schedule of future



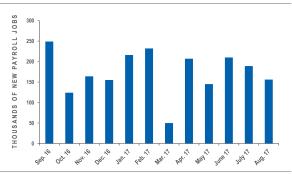
PAYROLL JOB GROWTH

United States | Year-Over-Year



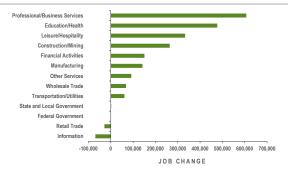
PAYROLL JOB GROWTH

United States | Monthly



PAYROLL JOB GROWTH

United States | 12 Months Ending August 2017



Note: Data are not seasonally adjusted. Source: Bureau of Labor Statistics, Delta Associates; September 2017

funds rate hikes and plans to shrink its balance sheet, higher interest rates in the near future is a given. However, relatively flat price inflation and continued uncertainty should keep long-term interest rate increases modest. Despite the higher cost of borrowing, we expect consumer spending to remain robust and remain the cornerstone of the national economy for the foreseeable future.

JOBS

The national economy continues to add jobs rapidly, but the pace is beginning to display signs of slowing. We have held the belief that the current rate of job creation is unsustainable in the long-term, and the economy does look to be losing some steam in that regard. July and August were the only consecutive months to experience declines in job additions (on a seasonally adjusted basis) during the 12-month period ending August 2017. In sum, the economy added 2.1 million new jobs during the period.

While the private sector has dominated the public sector in job creation throughout the recovery period, the public-sector contribution seems to be shrinking even further. Only a meager 2,000 jobs were added to government payrolls through the entire 12-month period—the lowest in any 12-month period since May 2014.

During the 12 months ending in August, monthly job growth has averaged 175,000 new positions. Seasonally-adjusted monthly job growth over the last three months are as follows:

June 2017: 210.000

July 2017: 189,000 (Preliminary)

August 2017: 156,000 (Preliminary)

Most employment sectors continue to see positive growth, and have been consistently adding new positions to meet strengthened demand. This is especially true for the Professional/Business Services

and Education/Health sectors which have a pronounced shortage of qualified workers. Recently, the labor market has been tightening in the resurging Leisure/ Hospitality sector. These three sectors alone account for exactly one-third of the national job growth over the 12 months ending in August.

On the other side of the coin are the struggling Retail Trade and Information sectors, both of which are struggling from disruptive competition via the Internet. Combined, the two sectors saw payrolls drop by just under 100,000 during the year ending August. Unfortunately, there doesn't seem to be an end in sight to the hemorrhaging in either sector, as the parade of store closures and newspaper staff reductions continue apace. It's not all doom and gloom though. In the Retail sector, some brick-and-mortar retailers, such as Walmart and Kohl's, seem to be adapting to the shifting market successfully. In addition, niche retailers continue to outperform the overall industry.

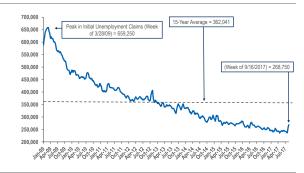
Another area to watch is public sector job growth, which has been trending downward for months, due in no small measure to the federal government. President Trump may not have been successful in implementing wholesale layoffs of federal employees, but seems to be partially accomplishing his federal workforce reduction goals through attrition. The federal government has only recorded a single month of positive job growth in all of 2017 so far.

The Construction/Mining sector continues to be the turnaround story of the year, particularly the Mining subsector. After staggering job losses in 2015 and 2016, thanks to plunging fuel prices, the Mining subsector has entered a period of solid recovery. Unfortunately, the oil refining component suffered a significant setback in August and September caused by the disruptive and destructive effects of Hurricane Harvey along the Gulf

THE NATIONAL ECONOMY

INITIAL UNEMPLOYMENT CLAIMS

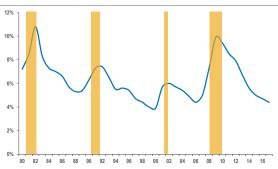
United States | Four-Week Moving Average



note: Data are seasonally adjusted. Source: Federal Reserve Bank of St. Louis. Delta Associates: September 2017.

UNEMPLOYMENT RATE

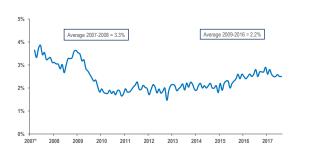
United States



Note: "Through August 2017; seasonally adjusted; shaded bars represent recessions Source: Bureau of Labor Statistics: Dalta Associates: Santambar 2017

AVERAGE HOURLY EARNINGS

12-Month Percentage Growth | 2007- August 2017



* Data available starting March 2007 Source: Bureau of Labor Statistics. Delta Associates: September 2017. Coast. Mining aside, real estate construction continued to be the main driver of growth in the sector, as housing demand remains robust. In sum, the Construction/ Mining sector has added 264,000 new jobs to the economy over the 12 months ending August 2017.

LABOR FORCE AND WAGES

Initial unemployment claims continued to hover around three-decade lows through most of August 2017, but jumped nearly 32,000 by mid-September. This hike is ostensibly due to the negative economic effects caused by both hurricanes Harvey and Irma in Texas and Florida, respectively. Per the Federal Reserve Bank of St. Louis, the four-week moving average of unemployment claims was 268,750 during the week ending September 16. As Florida and the Gulf Coast begin the recovery process in the near-term, we expect jobless claims to tick down some before flattening through the end of 2017 as there is little slack remaining in the labor market.

After falling to a 17-year low of 4.3% in May 2017, **the national unemployment rate** (seasonally adjusted) ticked back up 10 basis points in August to 4.4%. We expect the unusually low level of unemployment to climb above 4.5% before the end of the year.

In spite of the ever-tightening labor market, wage growth has failed to catch up. While there have been some gains in wages over the past year, much of this has been lost in recent months. During the 12-month period ending August 2017, the **national average hourly wage** increased by 2.5%. This is still lower than 3.0%+ annualized gains prior to the recession.

There are several theories explaining the lagging wage growth, including fundamental shifts in the labor market. Perhaps most apparent is an increasingly younger workforce, created in part by the retirement of baby boomers with considerably more seniority and who have been earning higher compensation. Competition from

less expensive foreign labor has also been an issue, as it creates downward pressure on domestic wages. There is also a mismatch between high-paying open positions and a lower-skilled workforce. Existing wage growth is largely being driven by high demand for skilled workers; there remains a shortage of workers with the technical skills required for positions in many industries, including Healthcare, Life Sciences, and Construction.

As of August 2017, there were 125.8 million persons employed in full-time jobs in the U.S., and 27.6 million persons employed in part-time jobs. During the 12 months ending August 2017, the number of full-time jobs increased by 1.5 million, while the number of part-time jobs increased by 347,000.

One recent trend in the U.S. economy is full-time workers receiving substantial amounts of supplemental income



from participation in the "gig" or "sharing" economy. According to the JPMorgan Chase Institute, nearly 1% of U.S. adults earned income through a digital sharing platform in October 2015, compared to just 0.1% of adults in October 2012. Examples of popular income sources include: part-time driving for Uber, renting out a room on Airbnb, or selling products on eBay.

As of August 2017, the national job availability ratio (not seasonally adjusted) remains at 1.1. The job availability ratio measures the relationship between the number of potential applicants and the number of jobs available. On average, the fast-growing Education/Health Services, Professional/Business Services, and Financial Activities sectors had the highest number of job openings relative to the number of unemployed, each with job availability ratios lower than 1.0.

GROSS DOMESTIC PRODUCT (GDP)

After yet another disappointing first quarter, real GDP rebounded markedly in the second guarter to 3.0%—the fastest pace of national economic expansion since the first quarter of 2015 and in line with our prior predictions. Consumers continue to propel the economy forward, with personal consumption increasing by 3.3% during the quarter. Unfortunately, strong consumer spending has done little to lessen the turmoil in the brick and mortar retail sector.

Nonresidential fixed investment, federal spending, and private inventory investment also contributed to robust GDP growth. Holding back the expansion were slowdowns in residential fixed investment and state and local government expenditures.

Looking ahead, we expect the disruption and damage caused by HIM to have an impact on economic growth in the third quarter, but the GDP growth rate will still be around 2.5%. The most recent report from the Federal Reserve Bank of Philadelphia's Survey of Professional Forecasters projects real GDP growth at 2.6% in the third quarter of 2017. Looking further ahead, GDP growth is expected to be 2.1% in 2017, 2.4% in 2018, and 2.2% in 2019.

CORPORATE PROFITS

Following a first quarter decline, corporate profits (before taxes) were back on the upswing during the second quarter of 2017, ending the period at \$2.14 trillion (annualized and seasonally adjusted). Healthy domestic consumer spending continues to be the major driving force behind corporate earnings across most industries, while weak exports and meager productivity growth have weighed on margins. Looking forward, profit growth will remain muted as continued low unemployment places upward pressure on wage growth, increasing unit costs. However, a weaker U.S. dollar should boost real net income from business conducted overseas.

REVOLVING CREDIT

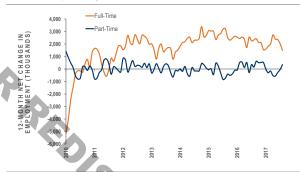
Revolving consumer credit increased at an annual rate of 3.2% in July 2017 hitting the \$1 trillion mark as personal consumption picked up again during the middle part of the year. Non-revolving credit accelerated markedly at a 6.9% annual rate in July 2017, even as interest rates have steadily climbed, reflecting the resilience of the recovery. Looking forward, we expect consumer credit growth to flatten out as interest rate hikes counterbalance strong consumer spending. Outstanding revolving credit will be most affected as it is inherently less stable than longerterm non-revolving credit.

HOUSING MARKET

Home prices in the 20 major metro areas covered by the S&P/Case-Shiller index continued their hot streak, increasing 5.8% in the 12 months ending July 2017. The Pacific Northwest cities of Seattle and Portland claimed the highest rates of appreciation over the year at 12.9% and 9.3%, respectively. The continued strong growth in home prices is causing some speculation of an

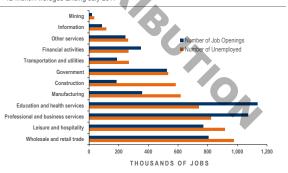
EMPLOYMENT GROWTH BY JOB STATUS

United States | 2010 - August 2017



NUMBER OF UNEMPLOYED VS. JOB OPENINGS

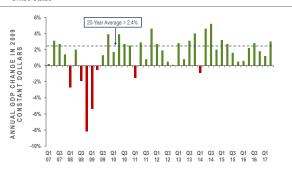
12-Month Averages Ending July 2017



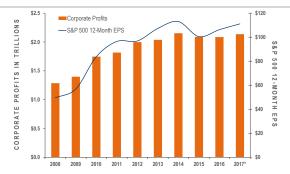
Note: Based on 12-month trailing average. Data are not seasonally adjusted Source: Bureau of Labor Statistics, Delta Associates; September 2017.

GDP PERCENT CHANGE

United States



U.S. CORPORATE PRE-TAX PROFITS



*Through Q2 2017; Note: Seasonally adjusted at annual rates. EPS=Eamings Per Share. Yearly data are not seasonally adjusted Source: Bureau of Economic Analysis. Standard and Poor's. Delta Associates: September 2017.

impending bubble. However, the combined effects of the rebounding labor market and continued low mortgage rates has kept demand high. Even with the acceleration of construction activity, supply has struggled to keep pace. The number of homes on the market relative to the number of households is still at its lowest level since the 1980s.

According to the National Association of Realtors, the annualized pace of existing home sales was 5.35 million in August 2017, up from 5.34 million a year prior. The current sales pace is the fastest seen since before the national housing crash in 2007. Sales would likely be even higher if not for a severe lack of inventory. The average sale price for an existing home was \$294,600 in August 2017, up 4.5% from \$282,000 in August 2016.

Mortgage rates have consistently been in decline since March 2017, but trended upward midway through September. Per Freddie Mac, the average commitment rate for a 30-year, conventional, fixed-rate mortgage rose to 3.83% as of September 21, up from a 2017 low of 3.78% in the two weeks prior. The increase mirrored a corresponding seven basis-point hike in the 10-year Treasury yield. We expect rates to rebound back above

4% shortly as the Fed winds down its expansionary policy in the coming period. The 2017 annual average is expected to be significantly higher than 2016's, when 30-year rates bottomed out at 3.42% in October, which was the lowest since April 2013.

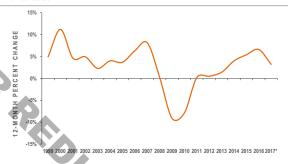
THE FEDERAL BUDGET

The Federal budget deficit for the 2016 fiscal year, which ended on September 30th of 2016, was \$587 billion (or 3.2% of GDP), up from 2.5% in FY2015. The budget shortfall in FY2016 was a \$148 billion increase over the deficit in FY2015, and marked the first federal budget deficit increase since FY2009. While the Congressional Budget Office (CBO) projects that the deficit to decline in fiscal years 2017 and 2018, it will resume its upward trajectory over at least the following eight years. The growing shortfalls would occur mainly because, under current law, growth in revenue would be outpaced by growth in spending for large federal benefit programs (primarily retirement and health care programs targeted to older people) and for interest payments on the federal debt.

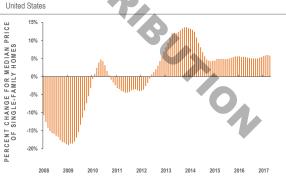
Prior to being elected, President Trump proposed major increases to infrastructure and defense spending, and he has already attempted to follow through on the latter of these promises in his initial FY2018 budget proposal, which increases military spending by \$54 billion. In order to fund the increase in defense spending, as well as \$2.6 billion to construct a wall on the U.S.-Mexico border and \$1.4 billion to fund a new private "school choice" program without increasing revenues, the budget proposes an equivalent amount of cuts in discretionary spending across nearly every federal department. Under the president's proposal, only the departments of Veteran Affairs, Homeland Security, and Defense would see funding increases. The Environmental Protection Agency, State, Agriculture, and Labor departments would see massive cuts exceeding 20% of their current budgets. The scale and timeline of the administration's

REVOLVING CREDIT

United States



ANNUAL CHANGE IN EXISTING HOME SALE PRICES



U.S. EXISTING HOME SALES VS. SALE PRICE



*Data as of August 2017. ** Seasonally adjusted annual sales rate.

Source: Matienal Association of Realtors, Delta Associates; September 2013

proposed infrastructure investment remains up in the air, and the president recently abandoned his plans to focus on P3 partnerships, claiming that "they're more trouble than they're worth."

In September, congressional Republicans and the Trump administration presented a tax reform plan with steep rate cuts. Specifically, the proposal:

- 1. Reduces the corporate tax rate from 35% to 20%.
- 2. Reduces and consolidates the individual tax rates into three brackets: 12%, 25% and 35%, doubles the standard deduction, and eliminates the personal exemption.
- 3. Reduces the tax on S corporations, partnerships, and sole proprietorships to 25%.

Most economists contend that the tax plan is unrealistic as proposed, since it would drastically widen the federal deficit even more than projected. This makes it unlikely that it will pass Congress in its current form.

INTEREST RATES AND INFLATION

The Federal Open Market Committee (FOMC) has so far followed through on its plans for regular increases to the federal funds benchmark rate this year. It hiked interest rates by a quarter percent at both its March and June meetings, with another increase likely coming in December. In addition, the Fed has indicated that it will shortly proceed to normalize its balance sheets by winding down its security-purchase program. The decision to end quantitative easing is driven mainly by strong consumer spending and the tight labor market. Unfortunately, weak inflation continues to be a concern, at least in the short term.

Consumer price inflation started off the year strong, but weakened in the spring. However, the rate of price growth has shown signs of rebounding over the summer. The CPI for all urban consumers increased 1.9% over the 12 months

ending August 2017, just shy of the Fed's 2.0% target. The increase was driven heavily by a sizeable 10.4% increase in gas prices as well as 3.3% increase in shelter costs. The personal consumption expenditure price index (PCEPI), which takes into account changes in consumption habits as people substitute some goods and services for others, experienced a lesser increase of 1.4% during the 12 months ending July 2017.

FINANCIAL MARKETS

U.S. financial markets have continued the strong bull market run through 2017, and the third quarter was no exception. The stock market returned to stability for much of 2016 as the economic recovery continued unhindered by turmoil overseas. Immediately following the presidential election, the stock market began a strong rally, in the process breaking record highs. On August 2, 2017, the Dow Jones Industrial Average crested 22,000 for the first time. The S&P 500 index stood at 2,496.84 as of market close on September 26, 2017, up 16.3% from a year ago. By comparison, total S&P 500 price returns in 2016 were 12.0%.

Much of the recent stock market gains can be attributed to the promises of President Trump to cut corporate taxes and alleviate federal regulations in the coming years. As such, continued positive performance in the marketplace is heavily dependent on the timing and framework of the new administration's policies. In September, the Trump administration proposed a tax reform plan that would lower the corporate tax rate to 20% and the pass-through business rate to 25%. The plan already faces stiff opposition from Democrats in Congress and skepticism from analysts. If promised tax cuts, which are a major factor behind the current lofty market caps, don't materialize as planned, there could be a profoundly negative reaction in financial markets.

BASELINE BUDGET PROJECTIONS

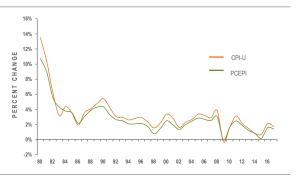
United States



SELECTED U.S. GOVERNMENT INTEREST RATES



U.S. INFLATION AND PERSONAL CONSUMPTION EXPENDITURE INDEX



Note: *CPI-U and PCEPI through July 2017. Data reflects 12-month percent change.

The looming U.S. debt ceiling could also have major market implications in the latter part of the year if Congress does not act preemptively, presenting a major downside risk. In what mostly amounts to just kicking the can down the road, Congress raised the debt ceiling in September to allow the federal government to pay its obligations for the next three months.

ECONOMIC OUTLOOK

Our economic outlook for the next several months remains bullish. Consumer sales, the labor market, and business spending remain fundamentally strong. Lost economic activity due to severe weather in some parts of the country will result in a modest pullback in GDP growth in the third quarter, but we expect it to rebound. Overseas, the outlook is murkier and less upbeat, but a number of G7 nations—particularly Canada, Japan, and Germany—have recorded robust economic growth so far this year.

Domestically, the largest unknown regarding the future performance of the economy is public policy. After repeated failed attempts to repeal Obamacare, congressional Republicans and President Trump have shifted their focus to long-awaited tax reform. However, the president's proposal to cut corporate taxes drastically from over 40% to 20% is likely to be watered down, as it would cost the government roughly \$1.5 trillion over a decade according to most estimates. The administration has also pledged to boost infrastructure spending across the nation, which would provide another considerable boost to the economy. However, in September, President Trump abandoned his preference for public-private partnerships in rebuilding the nation's infrastructure, preferring instead to increase the burden of states and localities. Overall, non-defense federal spending is expected to be flat in the period ahead.

Job growth, while still robust, appears to be slowing to a less aggressive pace as labor slack shrinks. We expect positive payroll growth to continue for the time being, but believe that the days of 200,000 monthly net additions are in the rear-view mirror. With a prolonged recovery cycle comes a prolonged wait for wage increases, but as discussed previously, there remain other fundamental factors at play that could be placing downward pressure on wage growth. Nevertheless, we believe material wage growth will arrive before the end of the cycle.

Based on the Fed's schedule of future funds rate hikes and plans to shrink its balance sheet, higher interest rates in the near future is a given. However, relatively flat price inflation and continued uncertainty should keep long-term interest rate increases modest. Despite the higher cost of borrowing, we expect consumer spending to remain robust and remain the cornerstone of the national economy for the foreseeable future.

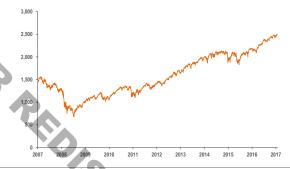
Specifically, we believe the economic outlook is as follows:

- **Real GDP growth:** 2.5% in 2017.
- Payroll jobs: 1.8 million additions in 2017.
- Housing: Price appreciation between 4.5% and 5.0% in 2017.
- Unemployment rate: 4.7% at end of 2017.
- Federal funds rate: Three 25 basis-point increases in 2017.
- Interest rates: Moderately up in 2017.
- Inflation: 1.9% in 2017.

NATIONAL PAYROLL JOB GROWTH SUMMARY

The U.S. economy gained 2.10 million payroll jobs over the 12 months ending August 2017 at an annual rate of 1.4%. This compares to the 25-year annual average of 1.3 million jobs at a 1.1% average growth rate.

S&P 500 INDEX



Note: "CPI-U and PCEPI through July 2017, Data reflects 12-month percent change. Source: Federal Reserve Economic Database (FRED), Delta Associates; September 20



US PAYROLL JOB GROWTH				
YEAR	JOB CHANGE	% CHANGE		
2017*	2,097,000	1.4%		
2016	2,463,000	1.7%		
2015	2,885,000	2.1%		
2014	2,577,000	1.9%		
2013	2,206,000	1.6%		
2012	2,243,000	1.7%		
2011	1,571,000	1.2%		
2010	-952,000	-0.7%		
2009	-5,929,000	-4.3%		
2008	-757,000	-0.5%		
2007	1,546,000	1.1%		
2006	2,402,000	1.8%		
2005	2,264,000	1.7%		
2004	1,440,000	1.1%		
2003	-302,000	-0.2%		
2002	-1,438,000	-1.1%		

^{* 12} months ending in August 2017.

12-MONTH PAYROLL EMPLOYMENT CHANGE THROUGH AUGUST 2017					
JOB CHANGE JOB CHANGE				NGE	
METRO AREA	#		METRO AREA		
New York	145,900	1.5%	Tampa-St. Petersburg	39,600	3.1%
Dallas/Ft. Worth	96,700	2.8%	Phoenix	34,900	1.8%
Atlanta	86,400	3.2%	Denver-Boulder	33,900	2.1%
LA Basin			Las Vegas	30,300	3.2%
Los Angeles/Long Beach/Glendale	37,200	0.9%	Charlotte	30,200	2.6%
Orange County (Santa Ana/Anaheim/Irvine)	900	0.1%	Raleigh-Durham	30,100	3.3%
Riverside/San Bernardino/Ontario	34,100	2.5%	Cincinnati	29,900	2.8%
Total LA Basin	72,200	1.0%	Portland (OR)	29,100	2.5%
Washington, DC	67,600	2.1%	Nashville	28,700	3.0%
Boston (Metropolitan NECTA)	63,400	2.3%	Chicago	24,700	0.5%
South Florida			San Antonio	23,000	2.3%
West Palm Beach/Boca Raton	15,700	2.6%	Columbus (OH)	22,300	2.1%
Fort Lauderdale	26,200	3.2%	Austin	21,200	2.1%
Miami/Miami Beach/Kendall	19,300	1.7%	Indianapolis	19,200	1.8%
Total South Florida	61,200	2.4%	San Diego	19,200	1.3%
Houston	53,500	1.8%	Baltimore	19,100	1.4%
Seattle	52,400	2.7%	Kansas City	17,200	1.6%
Philadelphia	51,500	1.8%	Jacksonville	16,900	2.5%
San Francisco Bay Area			Salt Lake City	16,800	2.4%
San Jose/Sunnyvale/Santa Clara	11,000	1.0%	Sacramento	16,000	1.7%
San Francisco/San Mateo/Redwood City	19,000	1.7%	St. Louis	15,500	1.1%
Oakland/Fremont/Hayward	19,400	1.7%	Pittsburgh	10,300	0.9%
Total Bay Area	49,400	1.5%	Cleveland	9,700	0.9%
Detroit (Detroit/Warren/Livonia)	44,900	2.3%	Memphis	9,500	1.5%
Minneapolis-St. Paul	44,800	2.3%	Oklahoma City	9,200	1.5%
Orlando	40,000	3.3%	New Orleans	1,600	0.3%



Fconomic Growth Accelerates in Third Quarter

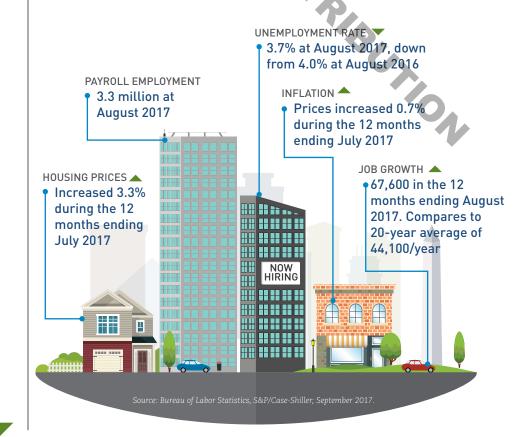
After slowing down somewhat earlier in the year, the pace of job growth has picked up again in the Washington metro area. A net total of 67,600 jobs were added to the Washington area economy during the 12 months ending August 2017, led again by the Education/Health Services and Professional/Business Services sectors. During the 12-month period ending August 2017, the total number of jobs in the Washington region grew at an annual rate of 2.1%, compared to a national rate of 1.4%. The unemployment rate in the Washington metro area stood at 3.7% as of August 2017, down 30 basis points from August 2016.

Consumer price growth in the Baltimore/Washington region showed little movement in the third quarter, reflecting national price stagnation. Consumer prices across the region in July 2017 were just 0.7% higher than they were a year prior, compared to 1.7% nationally. Regional gasoline prices stalled in the third quarter, after an extended period of robust growth, increasing just 1.6% over the 12 months ending July 2017. Home prices in the region increased 3.3% in the 12 months ending August 2017, compared to 5.8% nationwide.

We expect additional growth through the end of the year, as job growth remains robust and consumer spending strong. That said, there does remain significant downside potential regarding the policies of the new presidential administration and their effects on the region's economy, which is still heavily dependent on federal spending.

Amazon's RFP announcement for a second headquarters has sent regional economic development officials in a frenzy, as they rush to put together proposals for the highly-sought after award.

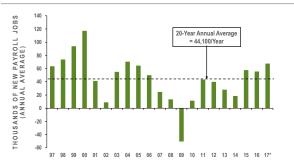
ECONOMIC HIGHLIGHTS WASHINGTON METRO AREA



The tech industry has become a bright spot for the Washington region in recent years. In 2016 alone, tech firms 2U, RainKing Software, Optoro, and Opower expanded their operations in the region and committed to hiring additional workers in the near future. Likewise, coworking firms, which cater to tech startups, have been on a path of rapid expansion in the Washington area. Amazon's RFP announcement for a second headquarters has sent regional economic development officials in a frenzy, as they rush to put together proposals for the highly-sought after award. If selected, the tech behemoth's second headquarters would bring 50,000 new well-paying jobs to the region over a decade, and would undoubtedly have positive spillover effects for the entire regional economy.

PAYROLL JOB GROWTH

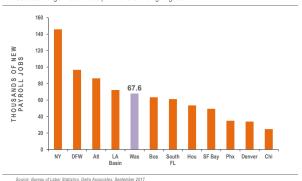
Washington Metro Area



*12 months ending in August 201

PAYROLL JOB GROWTH

Selected Large Metro Areas | 12 Months Ending August 2017



PAYROLL JOBS

After slowing down somewhat earlier in the year, the pace of job growth has picked up again in the Washington metro area. This falls in line with our predictions last quarter of a coming "resurgence in job growth." A net total of 67,600 jobs were added to the Washington area economy during the 12 months ending August 2017, which was well above the long-term annual average of 44,300. During the 12-month period ending August 2017, the total number of jobs in the Washington region grew at an annual rate of 2.1%, compared to a national rate of 1.5%. The Washington region ranked 5th among its peers in total job growth. As of August 2017, the total non-farm payroll in the Washington metro area stood at 3.3 million.

PAYROLL JOBS BY SECTOR

As has been the case through most of the recovery period, the booming Education/Health and Professional/ Business Services sectors lead job growth in the 12 months ending August 2017, totaling 36,200 combined. The resurging Washington area Leisure/Hospitality sector augmented that total with 14,400 jobs over the 12-month period. Payroll additions in most of the region's other employment sectors was positive, but below 10,000.

Job losses in the local Information sector continued to pile up in the third quarter, mirroring national trends as traditional publishing and media industries continue to rapidly contract. The sector experienced a 3,300 reduction in payroll positions during the 12 months ending August 2017. As we projected last quarter, the 12-month Federal Government job growth figure turned negative (-900) as of August. If President Trump follows through on his policy goals, we can certainly expect even more reductions in the size of the regional federal workforce in future periods. On the bright side, State and Local Governments picked up the slack in the public sector adding 5,100 jobs in the 12 months ending August 2017.

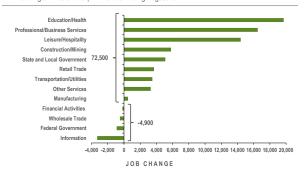
TRENDS IN EMPLOYMENT BY MAJOR SECTOR Washington Metro Area

., activité con metre i men					
	AUGUST 2017	12-MONTH CHANGE	20-YEAR ANNUAL AVERAGE		
Education/Health	444.9	19.7	1.4		
Professional/Bus. Svcs.	762.7	16.5	6.4		
Leisure/Hospitality	346.4	14.4	1.9		
Construction/Mining	165	5.8	15.2		
State and Local Govt.	312.4	5.1	10.0		
Retail Trade	282.5	3.7	1.8		
Transportation/Utilities	67.8	3.5	1.7		
Other Services	199.9	3.3	-0.1		
Manufacturing	54.7	0.5	-1.0		
Financial Activities	159.1	-0.2	0.2		
Wholesale Trade	62.4	-0.5	-1.0		
Federal Government	365.9	-0.9	4.3		
Information	71.2	-3.3	3.5		
Total	3,294.90	67.6	44.1		

Note: In thousands of payroll jobs. Data are not seasonally adjusted. Source: BLS, Delta Associates; September 2017.

PAYROLL JOB GROWTH

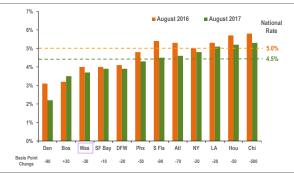
Washington Metro Area | 12 Months Ending August 2017



Source: Bureau of Labor Statistics. Delta Associates: September 2017

UNEMPLOYMENT RATE

Large Metro Areas | August 2016 vs. August 2017



Source: Bureau of Labor Statistics, Delta Associates; September 2017.

CONSUMER PRICE INDEX (CPI)

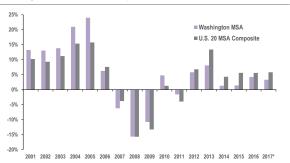
Washington/Baltimore Region



Note: Data is 12 month change ending in each period, through July 2017

CHANGE IN HOUSE PRICES

Washington MSA vs. U.S. 20-MSA Composite



-12 months ending July 2017. Source: S&P/Case-Shiller, Delta Associates; September 2017.

UNEMPLOYMENT RATE

The unemployment rate in the Washington metro area stood at 3.7% as of August 2017, down 30 basis points from August 2016. The region's unemployment rate is currently the third lowest among its peer metropolitan areas, trailing Denver and Boston. The rate is also 80 basis points lower than the national rate of 4.5% as of August 2017. We expect the Washington metro area's unemployment rate to continue to decline into the 3.0% - 3.3% range before the end of the year, then tick upwards as the federal workforce shrinks.

REGIONAL CONSUMER PRICE INDEX

Consumer price growth in the Baltimore/Washington region showed little movement in the third quarter, reflecting national price stagnation. Consumer prices across the region in July 2017 were just 0.7% higher than they were a year prior, compared to 1.7% nationally. After several quarters of robust growth, regional gasoline prices stalled in the third quarter, up just 1.6% over the 12 months ending July 2017. Household energy costs showed more significant appreciation over the period, rising 3.4%. We expect future CPI reports will show considerable increases in energy prices in reflection of rising gas prices following energy infrastructure damage caused by Hurricane Harvey in late August.

HOUSING PRICES

After lagging the rest of the country by a wide margin in terms of growth, home prices in the Washington metro area have been very slow to catch up. According to the S&P/Case-Shiller Home Price Index, home prices in the region increased 3.3% in the 12 months ending July 2017, compared to 5.8% nationwide. Looking ahead, we expect steady growth in home prices, although rising inventory and interest rates will place some downward pressure on prices.





REGIONAL GDP

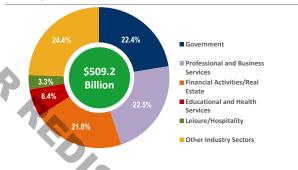
The total GDP produced in the Washington metro area in 2016 was \$509.2 billion (in current dollars). This was a 3.2% increase from the estimated \$493.7 billion in 2015, and just matched the 3.2% annual growth rate for all metro areas in the United States. Economic activity in the private sector totaled \$394.9 billion in 2016, which was a 3.3% increase over 2015, while total activity in the public sector was \$114.3 billion, just 2.8% higher than in 2015. The fastest growing economic sector in the Washington area during 2016 was Leisure/Hospitality which grew 4.6%, contributing \$16.6 billion to regional GDP.

While the Federal government remains the largest single contributor to the Washington area economy, its share of spending is shrinking. Federal government spending (direct expenditures and procurement) was 36% of GRP in 2015 (2016 figures were not directly reported). We expect this share to be reduced to 27% by 2020, as private sector economic growth will accelerate while Federal spending will remain flat, or possibly contract.

A major share of Federal spending in the Washington metro area economy is for procurement – the government's purchase of goods and services from the private sector. After decreasing slightly in 2015, procurement spending in the Washington region increased 3.8% to \$73.8 billion in 2016. Because these dollars drive private sector investment and job growth, they have a much greater secondary economic impact than dollars spent on Federal payroll.

SHARE OF REGIONAL GDP

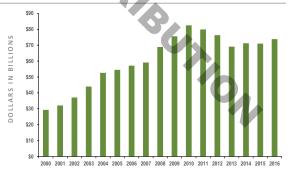
Washington Metro Area | 2016



Note: Percentages may not total to 100% due to counding Source: Bureau of Economic Analysis, Delta Associates, September 2017.

FEDERAL PROCUREMENT SPENDING

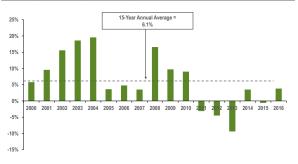
Washington Metro Area 2000-2016



Source: US Census, Consolidated Federal Funds Report and USAspending gov, Delta Associates; September 2017.

ANNUAL CHANGE IN FEDERAL PROCUREMENT SPENDING

hington Metro Area (Current Dollars) 2000-2016



Source: George Mason University Center for Regional Analysis, Delta Associates; September 2017

cond Quarter 2017 | Not for Redistribution

SIDEBAR: THE COMPETITION TO SECURE AMAZON'S HQ2

In early September, Amazon released a RFP for the development of a second national headquarters somewhere in North America (note that this means it could be located outside of the U.S.). The new headquarters would be a \$5 billion investment and provide 50,000 new full-time jobs paying an average of over \$100,000 a year. Amazon's existing headquarters in Seattle has been a boon to the city, with over \$85.8 billion in direct and indirect economic activity since Amazon moved their headquarters to Seattle in 2010.

Therefore, it comes as no surprise that hundreds of large cities and counties across the country are scrambling to put together RFP responses for submission by the October 19 deadline. Of course, this includes many of the Washington region's jurisdictions. While discussion of a single bid for the entire metro area surfaced early in the process, things quickly devolved into most jurisdictions submitting their own response in addition to a regional bid. WMATA has also thrown its hat into the ring, offering to join any regional bid by leveraging its valuable portfolio of transit-adjacent real estate.

Here is a brief overview of the building/site "preferences" specified in the HQ2 RFP:

- Within 30 miles of a population center.
- Within 45 minutes of an international airport.
- No more than two miles from "major highways and arterials."
- Must have direct access to rail, subway/metro, and/or bus routes.
- Provide for 500,000 SF of office space in 2019 and eight million SF of office space by 2027+.

While these are not strict requirements, the selection of available development sites in the densely-populated Washington region that satisfy all of them is actually very slim. Nevertheless, at least five jurisdictions (likely more) in the region have stated that they plan to submit bids to Amazon, including: the District of Columbia, Montgomery and Prince George's counties in Maryland, and Loudoun and Arlington counties in Virginia. This doesn't include other proposals in Maryland and Virginia from cities and counties outside of the immediate Washington area, including Baltimore City and Virginia Beach. Regardless of the separate bids coming from the region, it's clear that the Washington area has distinct advantages over most other metro areas including: a highly-educated workforce, a plethora of transit options, and three major airports.



The University of Maryland's Discover District in College Park. Future home of Amazon's HQ 2? (Source: COPT)

WASHINGTON AREA ECONOMIC OUTLOOK

The Washington area economy continues to expand, although the rate of growth has ebbed and flowed so far this year, mirroring national patterns. We expect additional growth through the end of the year, as job growth remains robust and consumer spending strong. That said, there does remain significant downside potential regarding the policies of the new presidential administration and their effects on the region's economy, which is still heavily dependent on federal spending.

President Trump's initial FY2018 budget proposal to Congress prompts immediate cause for concern since it calls for steep budget cuts to nearly every federal agency. Some agencies stand to lose over 20% of their current budgets, including the Environmental Protection Agency, State, Agriculture, and Labor departments. Under the president's proposal, only the departments of Veteran Affairs, Homeland Security, and Defense would see funding increases. On top of the budget uncertainty is the looming debt ceiling which will need to be raised again before the end of the year, after a brief reprieve was passed by Congress in September.

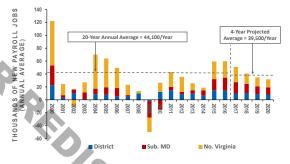
The tech industry has become a bright spot for the Washington region in recent years. In 2016 alone, tech firms 2U, RainKing Software, Optoro, and Opower expanded their operations in the region and committed to hiring additional workers in the near future. Likewise, coworking firms, which cater to tech startups, have been on a path of rapid expansion in the Washington area. No doubt the most lucrative potential prize for the region is Amazon's planned second headquarters. If selected, the tech behemoth's second headquarters would bring 50,000 new well-paying jobs to the region over a decade, and would undoubtedly have positive spillover effects for the entire regional economy. A number of area jurisdictions have already indicated plans to submit bids (see sidebar).

Overall, we predict that 51,000 new jobs will be created in the region in 2017 (primarily in the private sector) with the pace of annual job growth slowly declining in subsequent years. Overall, we expect annual job growth in the metro area to average 39,500 over the next four years. The Washington metro area has a wealth of assets – a highly skilled workforce, access to international markets, high-quality education, and vast cultural resources – that will continue to give it a competitive advantage over other large metro areas in the long-run.

The tech industry has become a bright spot for the Washington region in recent years.

PAYROLL JOB GROWTH

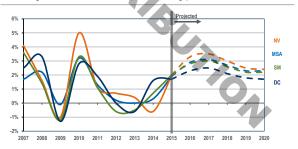
Washington Metro Area



Source: Bureau of Labor Statistics: George Mason University Center for Regional Analysis: Delta Associates: Sentember 201

ECONOMIC OUTLOOK (GRP), 2007-2020

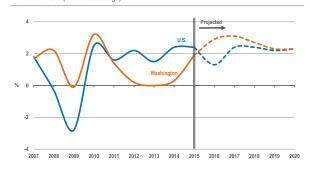
Washington Area and Sub-State Areas (Annual % Change)



Source: Bureau of Labor Statistics, George Mason University Center for Regional Analysis, Delta Associates; September 201

U.S. GDP AND WASHINGTON AREA GRP

2007 - 2020 (Annual % Change)



Source: IHS Economics, GMU Center for Regional Analysis, Delta Associates; September 2017

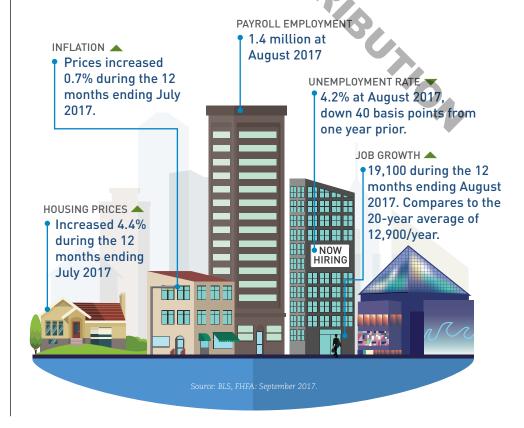


Pace of Job Growth Picks Up As Economy Expands

Payroll job growth in the Baltimore metro area resumed its brisk pace during the third quarter after recovering from some second quarter weakness. The region added 19,100 jobs during the 12 months ending August 2017, well over the long-term average of 12,900/ year. The nationwide struggles of the brick-and-mortar retail industry continues to be reflected in Baltimore's job growth this year. In the metro area, the Wholesale Trade and Retail Trade sectors shed a combined 3,400 jobs during the 12 months ending August 2017. The Baltimore metro area's unemployment rate was 4.2% (not seasonally adjusted) as of August 2017, down 40 basis points from August 2016, and 30 basis points below the national average. Baltimore's current unemployment rate ranks in the lower range among its peer metro areas, and we expect it to remain under 5% in 2017.

Once dominated by manufacturing, the Baltimore economy has become diversified over the past few decades. Despite the shift to a more service-oriented economy, the Baltimore area is not totally abandoning its industrial past. Amazon is finalizing plans to open its second fulfillment center in the area—an 855,000 SF facility at the Tradepoint Atlantic industrial site in Baltimore County. The online retail giant will join Under Armour and FedEx at the site, which have also recently announced plans to operate large distribution facilities there. Even bigger news from Amazon is the announcement of their search for a second headquarters, and Baltimore plans to enter a bid.

ECONOMIC HIGHLIGHTS BALTIMORE METRO AREA



PAYROLL JOB GROWTH

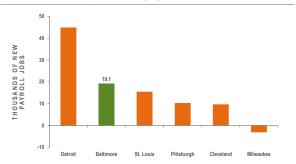
Baltimore Metro Area



*12 months ending August 2017.

PAYROLL JOB GROWTH

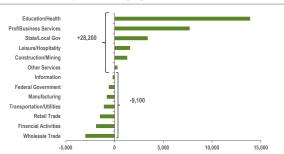
Comparable Metro Areas | 12 Months Ending August 2017



Source: Bureau of Labor Statistics, Delta Associates; September 2017

PAYROLL JOB GROWTH

Baltimore Metro Area | 12 Months Ending August 2017



Source: Bureau of Labor Statistics, Delta Associates; September 2017

We expect the Baltimore area economy to see additional growth through the remainder of 2017 and beyond. The regional economy is fundamentally sound and performing very well in comparison to its traditional peers. As the Baltimore region continues its transition from an economy dominated by manufacturing and distribution, we expect the share of jobs in the Professional/Business Services, Education/Health, and Financial Activities sectors to increase substantially. We expect an average of 14,400 new jobs will be added to the regional economy annually between 2017 and 2019.

PAYROLL JOBS

Job growth in the Baltimore metro area accelerated beyond the midpoint of 2017. The region added 19,100 jobs during the 12 months ending August 2017, well over the long-term average of 12,900/year. Baltimore's labor market continues to be robust, reflecting the healthy regional economy. Over seven years have passed since the region last recorded a negative 12-month job growth figure. As of August 2017, total payroll employment in the Baltimore region stood at 1.41 million jobs.

JOB GROWTH BY SECTOR

Unlike many other regions of the country, including the neighboring Washington metro area, Baltimore's total net payroll additions mask what is really a mixed bag in terms of sector to sector performance. Seven of the thirteen primary BLS job sectors recorded negative job growth in the 12 months ending August 2017, totaling -9,100. The six positive sectors more than compensated for the losses with 28,200 net total additions, but it does indicate a minor cause for concern as it can create inequality between available positions and the qualifications of jobseekers, and an overreliance on a handful of sectors over the long-term increases exposure to severe economic downturns.

TRENDS IN EMPLOYMENT BY MAJOR SECTOR Baltimore Metro Area | In Thousands

	AUGUST 2017	12 -MONTH CHANGE	20 -YEAR ANNUAL AVERAGE
Education/Health	281.0	13.9	4.9
Professional/Bus. Svcs.	244.4	7.7	5.0
State/Local Govt.	168.2	3.4	0.7
Leisure/Hospitality	143.2	1.6	1.9
Construction/Mining	80.8	1.3	0.8
Other Services	58.2	0.3	0.5
Information	16.6	-0.2	-0.2
Federal Government	50.8	-0.6	0.2
Manufacturing	53.3	-0.8	-2.4
Transportation/Utilities	51.0	-1.1	0.7
Retail Trade	138.5	-1.5	0.3
Financial Activities	78.6	-1.9	0.3
Wholesale Trade	50.7	-3.0	0.1
Total	1,415.3	19.1	12.9

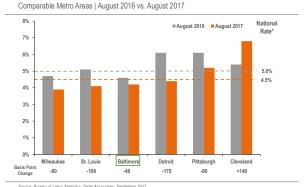
Note: In thousands of payroll jobs. Data are not seasonally adjusted. Sum of columns may not equal total due to rounding.

Source: BLS, Delta Associates; September 2017.



THE BALTIMORE AREA ECONOMY

UNEMPLOYMENT RATES



CONSUMER PRICE INDEX (CPI)

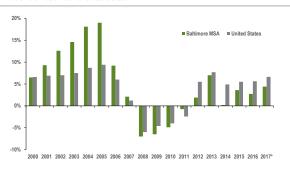




Note: Data is 12 month change ending in each period, through July 2 Source: Rureau of Labor Statistics: Dalta Associates: Santamber 201

CHANGE IN HOUSE PRICES

Baltimore Metro Area vs. United States



Note: Seasonally adjusted purchase-only price. *12-month change at June 201 Source: Federal Housing Finance Agency, Delta Associates; September 2017.

The Education/Health Services and Professional Business Services sectors continue to be the foundation of economic growth in the Baltimore metro area, accounting for 77% of the positive job growth in the metro area, with 21,600 additions combined. The State/Local Government, Leisure/ Hospitality, Construction/Mining, and Other Services sectors were the only other employment sectors in the region to experience positive job growth during the 12-month period.

The nationwide struggles of the brick-and-mortar retail industry continues to be reflected in Baltimore's job growth this year. In the metro area, the Wholesale Trade and Retail Trade sectors shed a combined 3,400 jobs during the 12 months ending August 2017. There has been some good news for the sector in the Baltimore area though, as Amazon is nearing an agreement to construct an 855,000 SF fulfillment center employing 1,500 at the Tradepoint Atlantic industrial site in Baltimore County. The Financial Activities sector continues to struggle, losing 1,900 jobs between August 2016 and August 2017, but the sector does have some promising future prospects. In 2016, Morgan Stanley announced plans to lease additional office space in downtown Baltimore and add 800 new jobs over the next four years.

UNEMPLOYMENT RATE

The Baltimore metro area's unemployment rate was 4.2% (not seasonally adjusted) as of August 2017, down 40 basis points from August 2016, and 30 basis points below the national average. Baltimore's current unemployment rate ranks in the lower range among its peer metro areas, and we expect it to remain under 5% in 2017.

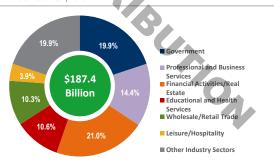
REGIONAL CONSUMER PRICE INDEX

Consumer price growth in the Baltimore/Washington region showed little movement in the third quarter, reflecting national price stagnation. Consumer prices across the region in July 2017 were just 0.7% higher than

they were a year prior, compared to 1.7% nationally. After several quarters of robust growth, regional gasoline prices stalled in the third quarter, up just 1.6% over the 12 months ending July 2017. Household energy costs showed more significant appreciation over the period, rising 3.4%. We expect future CPI reports will show considerable increases in energy prices in reflection of rising gas prices following energy infrastructure damage caused by Hurricane Harvey in late August.

SHARE OF REGIONAL GDP

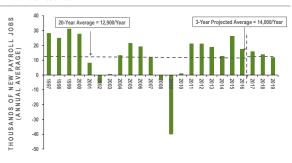
Baltimore Metro Area | 2016



Note: Percentages may not total to 100% due to rounding

JOB GROWTH

Baltimore Metro Area



Source: Bureau of Labor Statistics: Delta Associates: Sentember 2011

10,

SIDEBAR: BALTIMORE'S CASE FOR AMAZON'S HQ2

In early September, Amazon released a RFP for the development of a second national headquarters somewhere in North America (note that this means it could be located outside of the U.S.). The new headquarters would be a \$5 billion investment and provide 50,000 new full-time jobs paying an average of over \$100,000 a year. Amazon's existing headquarters in Seattle has been a boon to the city, with over \$85.8 billion in direct and indirect economic activity since Amazon moved their headquarters to Seattle in 2010.

Here is a brief overview of the building/site "preferences" specified in the HQ2 RFP:

- Within 30 miles of a population center.
- Within 45 minutes of an international airport.
- No more than two miles from "major highways and arterials."
- Must have direct access to rail, subway/ metro, and/or bus routes.
- Provide for 500,000 SF of office space in 2019 and eight million SF of office space by 2027+.

Almost immediately following the announcement, state and local public officials decided to throw Baltimore City's hat into the ring, as the economic impact would be a major boon for the city, which has seen steady economic growth but has lagged many of its peers and suffered from an ongoing population decline. Regionwide support for the bid has already coalesced around a single development site—Sagamore's 235-acre Port Covington development. Of course, Baltimore would be in contention with potentially hundreds of other cities from across the continent (the RFP specified "North American" cities), particularly its larger neighbor to the southwest, but it does boast some distinct advantages:

- The rare availability of a 235-acre, largely vacant development site with highway and future transit access a few miles from downtown.
- A rapidly growing tech sector.
- A strategic position along the Northeast Corridor between DC and Philadelphia.
- Lower occupancy costs and cost of living for employees compared to the Washington region.



Rendering of the Port Covington mixed-use development with the future Under Armour headquarters on the left. (Source: Sagamore Development)

THE BALTIMORE AREA ECONOMY

HOUSING PRICES

Home prices in the Baltimore metro area increased 4.4% during the 12 months ending June 2017, according to the Federal Housing Finance Agency (FHFA), a significantly quicker pace than 2.7% in 2016. With a limited supply of new housing in the metro area, but growing demand, home price appreciation in the Baltimore metro crept closer to the national average of 5.5% over the 12 months ending June 2017.

REGIONAL GDP

The Baltimore metro area's total Gross Domestic Product (GDP) in 2016 was \$187.4 billion. This was a 4.4% increase over 2015, and higher than the 3.2% average growth experienced by all 382 of the nation's metropolitan areas. Economic activity in the private sector grew 4.9% over the year, or nearly twice the 2.7% rate of growth experienced by the public sector. The Financial Activities/Real Estate sector just narrowly beat out Government to lead all sectors in economic contributions at \$39.3 billion, or 21% of the total value of goods and services produced in the Baltimore region. The Professional/Business Services, Education/Health, and Manufacturing sectors round out the top 5 economic sectors in the metro area in 2016. The fastest growing economic node was Financial Activities (8.4%), while Mining was the only sector that contracted (-10.4%).

BALTIMORE AREA ECONOMIC OUTLOOK

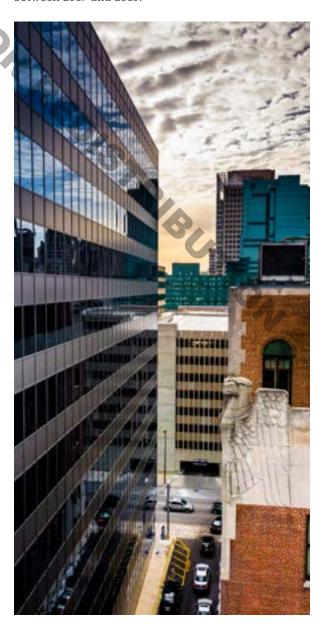
Three-quarters of the way through 2017, the Baltimore metro area economy continues to perform well and we expect continued improvement through the end of the year. Job growth will continue to be above-average, although the pace will gradually decline in coming years. Most promising is the strong growth in higher-paying job sectors, particularly Professional/Business Services and Education/Health Services, the latter of which is quickly becoming the dominant growth sector in the region.

The region's largest private firms, such as Under Armour, Sinclair Broadcasting, and McCormick continue to grow and expand, benefiting the regional economy. Importantly for Baltimore City, is the growing trend of companies seeking to relocate to walkable, urban environments. In the third quarter, two companies currently located in the Baltimore suburbs announced that they would relocate their headquarters to the city. The first announcement came from Howard Bancorp, which announced plans to consolidate its headquarters (now located in Ellicott City in Howard County) into the former headquarters of the recently acquired 1st Mariner Bank in Baltimore's Canton neighborhood. Rapidly growing weight-loss company Medifast also announced plans to relocate its headquarters to Baltimore City, specifically the burgeoning Harbor East mixed-use district. The company's current headquarters is located in Owings Mills in Baltimore County. Perhaps the biggest relocation prospect for the city is Amazon's HQ2 (see sidebar).

Once dominated by manufacturing, the Baltimore economy has become diversified over the past few decades. Finance, healthcare, education, federal agency, government contractor, and tech employers account for the bulk of the region's economic activity. Innovative entrepreneurship has taken off in recent years in both Baltimore City and its suburbs. The region's low cost of living relative to Washington and other nearby metro areas, its affordable office space, and its anchor educational institutions have created a very appealing environment for startups.

The ongoing major concern moving forward is the persistently high level of violent crime in Baltimore City. After dropping to the lowest level in decades in the early 2010's, the city's violent crime rate climbed sharply following the civil unrest in May 2015 and has yet to come back down. The elevated crime rate could possibly deter new residents and businesses

alike, which could threaten the region's recent run of economic success. Nevertheless, we project that the region will add an average of 14,000 new jobs per year between 2017 and 2019.





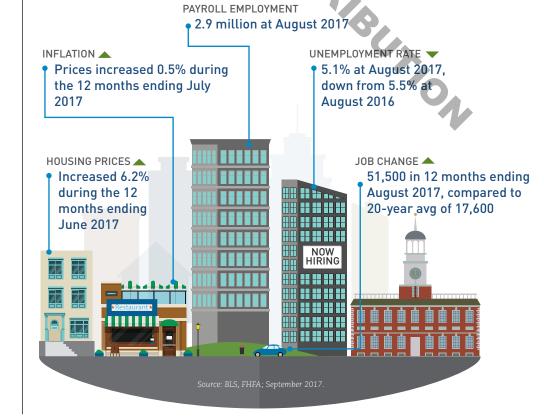
Philadelphia Overtakes Peers As Economy Strengthens Further

The economic recovery in the Philadelphia metro area has yet to slow down. A total of 51,500 new jobs were added to the regional economy during the 12 months ending August 2017. Mirroring national trends, the Professional/Business Services, Education/ Health, and Leisure/Hospitality sectors led job growth in the Philadelphia metro area, combining for 45,000 net additions. The regional unemployment rate declined by 40 basis points to 5.1% between August 2016 and August 2017.

As job growth has driven up demand for housing, home prices have risen accordingly. Average home prices increased a strong 6.2% over the year ending June 2017, compared to the national rate of 6.6%. Despite the growth in housing costs, overall inflation has remained low so far in 2017, with consumer prices in the Philadelphia metro area increasing just 1.4% during the 12 months ending August 2017.

All indicators point to continued economic growth in the Philadelphia metro area in the period ahead. We project the region's economy to add an average of 51,700 new jobs annually between 2017 and 2019. Strong job creation in the region's key economic sectors, such as Education/Health Services and Professional/Business Services, will produce spin-off effects in a variety of sectors from Construction to Financial Services. This, in turn, will support retail spending, office demand, and the housing market, as well as make the region more attractive to an economically and demographically diverse labor force.

ECONOMIC HIGHLIGHTS PHILADELPHIA METRO AREA



TRENDS IN EMPLOYMENT BY MAJOR SECTOR Philadelphia Metro Area In Thousands

III Tirodourido					
	AUGUST 2017	12-MONTH CHANGE	20-YEAR ANNUAL AVERAGE		
Education/Health Services	622.9	15.4	6.3		
Professional/Bus. Svcs.	479.0	16.7	10.2		
Transportation/Utilities	105.8	6.8	0.8		
Leisure/Hospitality	284.1	12.9	4.3		
Construction/Mining	120.6	2.8	0.7		
Financial Services	216.5	2.3	0.7		
State/Local Government	262.3	1.7	-0.7		
Wholesale Trade	120.1	0.6	0.3		
Retail Trade	297.0	-5.0	0.2		
Other Services	119.3	-1.2	0.9		
Federal Government	51.5	0.0	0.7		
Information	46.1	-0.9	-0.7		
Manufacturing	179.1	-0.6	-5.9		
Total	2,904.3	51.5	17.6		

Note: In thousands of payroll jobs. Data are not seasonally adjusted. Source: Bureau of Labor Statistics, Delta Associates: September 2017.



PAYROLL JOBS

Job growth continued apace in the Delaware Valley during the third quarter of 2017. The regional economy added 51,500 new jobs during the 12 months ending August 2017. As of August 2017, total employment in the Philadelphia metro area stood at 2.90 millionthe seventh highest in the nation. We expect robust job growth to persist through the remainder of 2017, before cooling somewhat in following years.

JOB GROWTH BY SECTOR

Mirroring national trends, the Professional/Business Services, Education/Health, and Leisure/Hospitality sectors led job growth in the in the Philadelphia metro area, combining for 45,000 net additions. Most other employment sectors also saw positive job growth over the period. The main exception was the Retail Trade sector which experienced a job loss of negative 5,000.

"Eds-and-meds" has remained one of the key drivers of the Philadelphia area economy. The life sciences industry in particular has become a strong growth center for the regional economy. According to the Greater Philadelphia Life Sciences Report published in January 2017, there are over 1,200 life sciences establishments in the region, providing 48,900 direct jobs and generating \$24.6 billion dollars in real economic impact. Anchoring the industry are more than 50 colleges and universities, including six medical schools.

Education/Health Services institutions Philadelphia metro area channel economic activity to other sectors. This is most readily apparent in the uptick in construction jobs in the region, which is partly due to the expansion of university-linked medical research campuses in the area. UPenn and Penn Medicine invested \$932 million in construction and renovation and created about 10,300 jobs for Pennsylvania residents in 2015.

PAYROLL JOB GROWTH

Philadelphia Metro Area



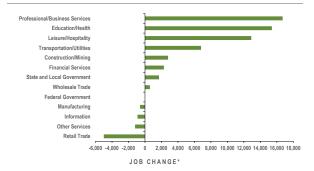
PAYROLL JOB GROWTH

Comparable Metro Areas | 12 Months Ending August 2017



PAYROLL JOB GROWTH

Philadelphia Metro Area



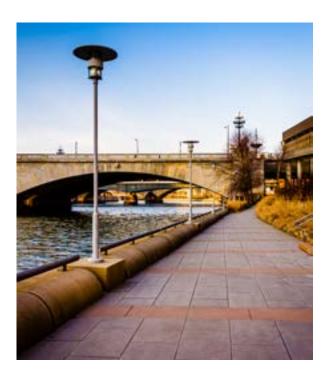
*12 months ending in August 2017. Source: Bureau of Labor Statistics, Delta Associates; September 2017.

UNEMPLOYMENT RATE

As the Philadelphia metro area's employment base expands at a vigorous pace, there has been a corresponding decline in unemployment. The regional unemployment rate declined by 40 basis points to 5.1% between August 2016 and August 2017. Greater confidence in the Philadelphia labor market has encouraged more residents to enter the labor force, providing upward pressure on the unemployment rate. We expect unemployment to continue its decline through the end of 2017 as the pool of potential job seekers diminishes.

REGIONAL CONSUMER PRICE INDEX

Consumer price growth in the Philadelphia metro area continued to be moderate in the third quarter. Average prices increased just 1.4% over the 12 months ending August 2017. The increase was due largely to a 1.9%



increase in housing prices and an 18.1% increase in gasoline prices. Food prices and medical care costs remained largely flat over the 12-month period, while Education and communication costs declined 3.2%. We expect inflation to continue to be relatively weak through the end of the year, although there should be a considerable hike in gas prices following energy infrastructure damage caused by Hurricane Harvey in late August.

HOUSING PRICES

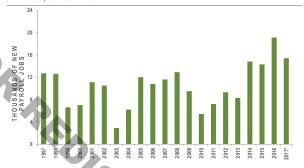
Home price inflation in the Philadelphia metro area was just shy of the national average during the 12 months ending June 2017. Average home prices increased a strong 6.2% over the year, compared to the national rate of 6.6%. Strong job growth in the region has stimulated demand for homes. This rising demand combined with relatively limited new construction has helped drive up housing prices.

REGIONAL GDP

The total value of all goods and services produced in the Philadelphia metro area in 2016 was \$431.0 billion (in current dollars). This was a 3.2% increase from the estimated \$417.7 billion in 2015, and just matched the 3.2% annual growth rate for all metro areas in the United States. Economic activity in the private sector totaled \$393.9 billion in 2016, which was a 3.4% increase over 2015, while total activity in the public sector was \$38.1 billion, just 0.7% higher than in 2015. The fastest growing economic sector in the Philadelphia metro area during 2016 was Financial Activities/Real Estate which grew 4.6%, while Agriculture/Forestry/Fishing was the only sector that contracted (-7.5%). The Financial/Real Estate Activities also lead all sectors in economic contributions at \$110.6 billion, or 26% of the total value of goods and services produced in the Philadelphia region.

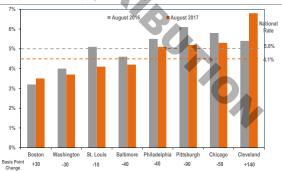
EDUCATION/HEALTH SERVICES JOB GROWTH

Philadelphia Metro Area



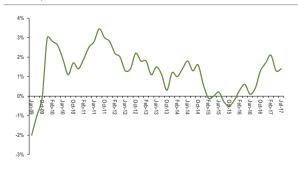
UNEMPLOYMENT RATE

Comparable Metro Areas | August 2016 vs. August 2017



CONSUMER PRICE INDEX (CPI)

Philadelphia Metro Area



Note: Data are 12 months ending in each period, through August 201 Source: Bureau of Labor Statistics. Della Associates: September 201

SIDEBAR: POSSIBLE PHILADELPHIA LOCATIONS FOR AMAZON'S HQ2

In early September, Amazon released a RFP for the development of a second national headquarters somewhere in North America (note that this means it could be located outside of the U.S.). The new headquarters would be a \$5 billion investment and provide 50,000 new fulltime jobs paying an average of over \$100,000 a year. Amazon's existing headquarters in Seattle has been a boon to the city, with over \$85.8 billion in direct and indirect economic activity since Amazon moved their headquarters to Seattle in 2010.

Here is a brief overview of the building/site "preferences" specified in the HQ2 RFP:

- Within 30 miles of a population center.
- Within 45 minutes of an international airport.
- No more than two miles from "major highways and arterials."
- Must have direct access to rail, subway/ metro, and/or bus routes.
- Provide for 500,000 SF of office space in 2019 and eight million SF of office space by 2027+.

The race to nab the new Amazon headquarters is in fullswing across the country, and the Philadelphia region is no exception. Similarly to the tri-state Washington area, many individual jurisdictions in the Philadelphia region are planning on submitting their own bids, instead of sticking to just one regionwide response (as recommended in Amazon's RFP). So far, public officials in Philadelphia, Camden (NJ), Bensalem, and Wilmington (DE) have all announced that they would be competing for HQ2. Philadelphia has seemingly emerged as one of the early favorites, both regionally and nationally, to secure the headquarters due to the availability of multiple sites that fully satisfy most or all of the RFP requirements, its mushrooming tech industry, and its strategic location on the Northeast Corridor midway between DC and New York. Below are the specific sites that will be submitted in Philadelphia's bid:

- Schuylkill Yards: 14-acre mixed-use development surrounding 30th Street Rail Station.
- uCity Square: 14-acre mixed-use innovation and entrepreneurship hub in University City.
- Navy Yard: 1,200-acre campus that was formerly occupied by a military base and is already home to 150 employers.



Caption: Rendering of Schuylkill Yards development in Philadelphia with 30th Street Station in center. (Source: Brandywine Realty Trust)

THE PHILADELPHIA AREA ECONOMY

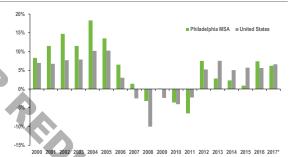
PHILADELPHIA AREA ECONOMIC OUTLOOK

We expect the Philadelphia metro area's economy to continue growing briskly through the remainder of the year, before calming a bit in following years. We project the region's economy to add an average of 51,700 new jobs annually between 2017 and 2019. The region's economic expansion will be driven by its backbone: the Education/Health Services sector. Institutions in the sector, such as the University of Pennsylvania, Villanova University, Drexel University, and Temple University, serve as hubs that provide well-paying jobs, foster startups, and stimulate real estate development. Other major employers, such as Comcast and Aramark, are also helping to propel the regional economy forward. Like scores of other metro areas across the U.S., jurisdictions in the Philadelphia region are aggressively pursuing the opportunity to secure Amazon's proposed HQ2 site and its 50,000 new employees (see sidebar).



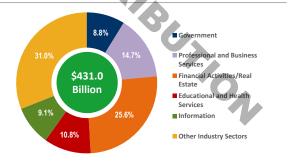
CHANGE IN HOUSE PRICES

Philadelphia Metro Area vs. United States



SHARE OF REGIONAL GDP

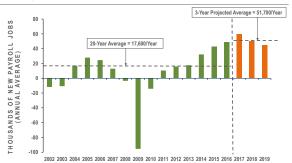
Philadelphia Metro Area | 2016



Note: Percentages may not total 100% due to rounding Source: Bureau of Economic Analysis, Delta Associates: September 2017.

JOB GROWTH

Philadelphia Metro Area



Source: Bureau of Labor Statistics, Delta Associates; September 2011



WASHINGTON CONDOMINUM MARKET OVERVIEW

NET SALES VOLUME



276 THIRD QUARTER 2017

1,332 PAST 12 MONTHS

1,664 PRIOR 12-MONTH PERIOD

PIPELINE AT SEPTEMBER 2017



6 UNSOLD NEW CONDO UNITS

MONTHS OF INVENTORY

PRICES



-0.6%



--0.7%

CONCESSIONS



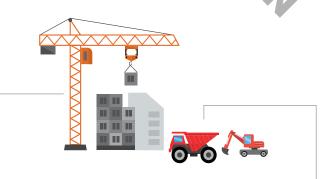
.0%

MONTHLY SALES PACE



PROJECTED STARTS IN 2017

STARTS IN 2016



CONSTRUCTION DELIVERIES (UNITS) -

PROJECTED DELIVERIES IN 2017 923

DELIVERIES IN 2016

1,355



BALTIMORE CONDOMINIUM MARKET OVERVIEW

NET SALES VOLUME



- 5 THIRD QUARTER 2017
- 35 PAST 12 MONTHS
- 26 PRIOR 12-MONTH PERIOD

PIPELINE AT SEPTEMBER 2017



UNSOLD NEW CONDO UNITS

MONTHS OF INVENTORY

PRICES



NEW UNITS



3.1%

CONCESSIONS



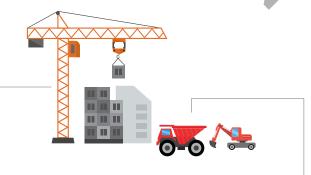
MONTHLY SALES PACE



CONSTRUCTION STAR

PROJECTED STARTS IN 2017

STARTS IN 2016



CONSTRUCTION DELIVERIES (UNITS) —

PROJECTED DELIVERIES IN 2017 62

DELIVERIES IN 2016

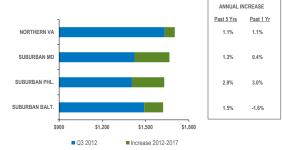


A Snapshot of the Class A Apartment Market

ANNUAL AVERAGE EFFECTIVE RENT GROWTH

MID-ATLANTIC CLASS A LOW-RISE APARTMENTS

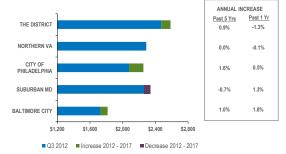
THIRD QUARTER 2017



ANNUAL AVERAGE EFFECTIVE RENT GROWTH

MID-ATLANTIC CLASS A MID AND HIGH-RISE APARTMENTS

THIRD QUARTER 2017

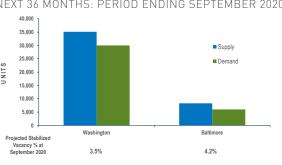


Source: Delta Associates. September 201

SUPPLY/DEMAND RELATIONSHIP

MID-ATLANTIC CLASS A APARTMENT MARKETS

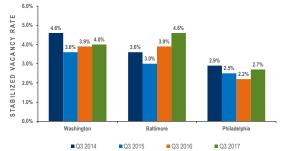
NEXT 36 MONTHS: PERIOD ENDING SEPTEMBER 2020



STABILIZED VACANCY RATES

MID-ATLANTIC CLASS A

APARTMENT MARKETS





Washington continues to experience above-average Class A absorption with 11,126 Class A units absorbed in the 12-month period ending September 2017. Absorption including class B product totaled 11,333 units.



Metro area Class A rents barely budged over the year with an increase of just 0.2%. For Class A and Class B combined, metro area rents increased bv 0.7%.



The stabilized vacancy rate for all classes of investment grade apartments decreased by 40 basis points over the past year and now stands at 2.9%. Class A vacancy experienced a 10 basis-point increase from last year to 4.0%.



The 36-month development pipeline is up from a year ago to 35,137 units; the pipeline increased in all three substate



12,270 units started construction in the 12-month period ending September 2017. During the third quarter, 2,296 units started construction.



Meanwhile, 11,735 units delivered in the 12-month period ending September 2017 and another 11,371 are scheduled to deliver in the 12-month period ending September 2018.



WASHINGTON METRO AREA

SUBURBAN MARYLAND ABSORPTION LAGS THE DISTRICT AND NORTHERN VIRGINIA; RENT GROWTH SLOWS

Annual Class A apartment absorption in the Washington metro area continued above 10,000 units for the third straight quarter, and remained well-above the long-term average. Oncoming supply has been above 30,000 units since 2011 and rent growth has been below-average for at least the same amount of time. Metro area vacancy experienced an increase of 10 basis points to 4.0% from a year ago. The District continues to see new supply push vacancy upward while rent growth in the city is negative.

RENTS

Metro area effective rents for all classes of investment-grade apartments rose by 0.7% in the 12-month period ending September 2017. Class A rents increased by just 0.2%. Rent growth for Class A low-rise product outperformed mid- and high-rise product in the Northern Virginia suburbs, while mid- and high-rise product in Suburban Maryland outperformed low-rise product. Meanwhile, District rents experienced a decline of 1.3% over the year.

VACANCY

The Washington metro area stabilized vacancy for all classes of apartments is 2.9%, down 40 basis points from a year ago.

- The September 2017 vacancy rate for stabilized Class A apartments in the Washington metro area is up 10 basis points from a year ago to 4.0%.
 - Low-rise stabilized vacancy is up 20 basis points to 4.0%.
 - Mid and high-rise stabilized vacancy is down 10 basis points to 4.0%.

LEASE-UP

Per project lease-up pace for projects currently in lease-up was 17 units per month, the same as it was a year ago. There are 64 projects in active lease-up today, the same as it was at Q3 2016. The monthly lease-up pace per project has remained in a tight range over the years, even though the number of projects in lease-up has fluctuated from 28 (average pace of 18 units) in 2012 to 70 (average pace of 15 units) in 2015.

APARTMENT VACANCY RATES

Major Apartment Markets

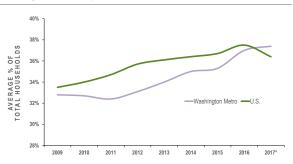


¹ The 82 largest apartment markets in the U.S.
* 2nd Quarter 2017 REIS data

Source: REIS, Delta Associates; September 20

RENTER HOUSEHOLDS

Washington Metro vs. U.S. | 2009 - 2017



*2rd Quarter 2017 Data Source: U.S. Census, Delta Associates, Sentember 201



PIPELINE

The pipeline of likely deliveries over the next 36 months decreased slightly from the second quarter and currently stands at 35,137 units. It appears that the development pipeline is reaching a plateau and will soon start its cyclical decline. Condo conversion will not help much, as only 7% of the 21,325 units currently under construction (but not yet leasing) metro-wide are of a scale of suitable for switching to condominiums before delivery. So far in the cycle, a handful of apartment projects, ranging in size from 60 to 200 units, have switched to condominiums (and a few have subsequently switched back to apartments). An exception is The Haven at National Harbor, a 248-unit project in Prince George's County that recently switched from apartments to condos.

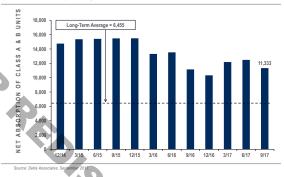
STARTS

In the 12-month period ending September 2017, 12,270 units started construction metro-wide. Seven projects with 2,296 units started construction in the third quarter.



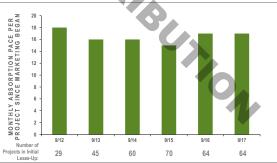
ANNUAL NET APARTMENT ABSORPTION

Class A & B Units | Washington Metro



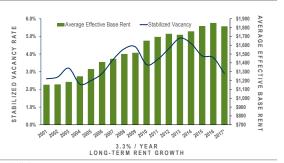
ABSORPTION PACE PER PROJECT PER MONTH

For Projects in Initial Lease-Up | Washington Metro



EFFECTIVE RENTAL RATE AND VACANCY RATE

All Types and Classes of Apartments | Washington Metro



DELIVERIES

An estimated 11,371 units are slated for delivery in the 12-month period ending September 2018, a 3% decrease over the 11,735 units delivered in the past 12 months. Deliveries are expected to slightly increase to 11,387 units in the 12-month period ending September 2019. Seventy-nine percent of these expected deliveries are under construction at third quarter 2017.

RETURN ON INVESTMENT

Total return on apartment investment (cash flow plus appreciation, as reported by NCREIF) in the Washington market continues to track below the national average. The annual total return for the 12-month period ending June 2017 was 5.29%, significantly off the cyclical peak of 28.64% in 2010. Washington was early to recover from the 2009 recession and early to peak in investment returns. Investors seeking the risk adjusted safety of Washington apartments bid up prices even as rent growth was slowing – contributing to lower overall returns.

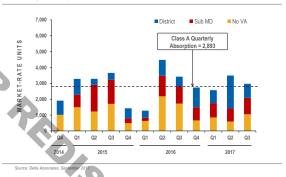
SUPPLY/DEMAND STATISTICS

	ABSORPTION, DELIVERIES, STARTS, & PIPELINE SUMMARY									
	NOVA	SUB-MD	DISTRICT	METRO-WIDE						
NET ABSORPTION CLA	ASS A & B									
Q4 16 - Q3 17	4,884	2,891	3,558	11,333						
Q4 15 - Q3 16	5,238	3,473	2,442	11,153						
Q4 14 - Q3 15	7,387	2,910	3,864	14,161						
DELIVERIES										
Q4 16 - Q3 17	3,156	3,584	4,995	11,735						
Projected:										
Q4 17 - Q3 18	4,424	2,125	4,822	11,371						
Q4 18 - Q3 19	4,210	2,440	4,737	11,387						
Q4 19 - Q3 20	1,433	1,203	1,473	4,109						
STARTS:										
Q3 2017	1,521	347	428	2,296						
Q4 16 - Q3 17	4,225	3,077	4,968	12,270						
36 -MONTH PIPELINE ¹										
At 9/2017	12,275	8,889	13,973	35,137						
At 9/2016	11,468	8,787	12,662	32,917						
At 9/2015	12,567	9,228	10,551	32,346						

¹ Includes vacant units in projects leasing up, units under construction and units expected to begin construction and deliver in the the next 36 months. Materialization rate changed in Q1 2017 from 24% to 32%.

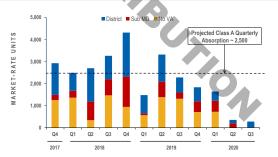
CLASS A APARTMENT DELIVERIES

Washington Metro | 2014 - 2017



PROJECTED DELIVERIES

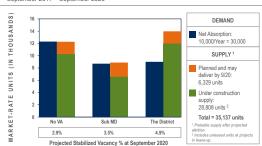
36-Month Development Pipeline | Washington Metro | 2017 - 2020



Source: Delta Associates, September 20

DEMAND AND SUPPLY PROJECTIONS

Washington Metro Class A Apartment Market September 2017 – September 2020



Projected Stabilized Vacancy Rate at Sentember 2020: 3 5% Metro-Wide

Source: Delta Associates, September 201

SUBSTATE RECAP

NORTHERN VIRGINIA

ANNUAL CLASS A RENT CHANGE



CRYSTAL CITY/ PENTAGON CITY

2.5%

N&W FAIRFAX 2.1% -

LOW-RISE

1.1%

WEST PRINCE WILLIAM COUNTY

3.9% -EAST PRINCE WILLIAM COUNTY

5.0% -

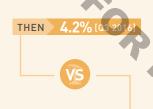
36-MONTH PIPELINE AT SEPT. 2017



Q3 2017 CONSTRUCTION STARTS



STABILIZED VACANCY



3.5% [Q3 2017] NOW

CLASS A: THIRD QUARTER

ANNUAL CLASS A



ANNUAL CHANGE IN ABSORPTION

DELIVERIES

PROJECTED DELIVERIES IN THE NEXT 12 MONTHS

SUBURBAN MARYLAND

ANNUAL CLASS A RENT CHANGE

HIGH-RISE

N. BETHESDA/

ROCKVILLE 2.6%

SILVER SPRING/ WHEATON 0.9% -

I OW-RISE

ST. MARY'S COUNTY 5.4%

CHARLES COUNTY 3.0%-

36-MONTH PIPELINE AT SEPT. 2017



Q3 2017 CONSTRUCTION STARTS



347 UNITS

STABILIZED VACANCY



CLASS A: THIRD QUARTER

ANNUAL CLASS A



ANNUAL CHANGE IN ABSORPTION



PROJECTED DELIVERIES IN THE NEXT 12 MONTHS





DISTRICT

폰

ANNUAL CLASS A RENT CHANGE

HIGH-RISE 1.3% _

COLUMBIA HEIGHTS/ SHAW

NORTHEAST 4.4%

4.1% -

36-MONTH PIPELINE AT SEPT. 2017





PROJECTS

428 UNITS

STABILIZED VACANCY



CLASS A: THIRD QUARTER

ANNUAL CLASS A



ANNUAL CHANGE IN ABSORPTION

PROJECTED DELIVERIES IN THE NEXT 12 MONTHS

DELIVERIES



HIGHEST \$/SF SUBMARKET

COLUMBIA HEIGHTS/SHAW

\$3.61/SF average





Northern Virginia absorption increased slightly from a year ago. Absorption over the year was led by N&W Fairfax high-rise (1,488 units), followed by Crystal City/ Pentagon City high-rise (744 units) and Rosslyn/Ballston

Corridor of Arlington high-rise (590 units). Meanwhile, low-rise rent growth significantly outperformed high-rise product over the year. Stabilized vacancy decreased 70 basis points from a year ago, again due to low-rise submarkets outperforming high-rise product. The 36-month development pipeline increased compared to last quarter by nearly 10%. Deliveries are projected to increase by 40% in over the next 12 months compared to what came online over the past year.

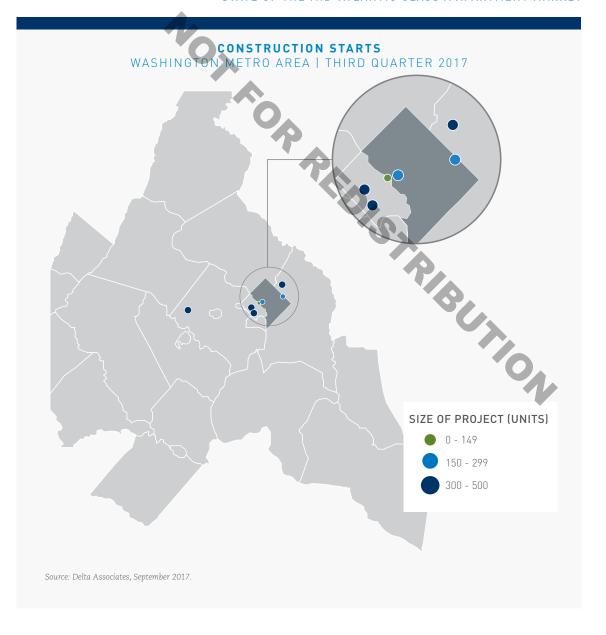


Suburban Maryland's annual absorption decreased 17% from a year ago. N. Prince George's County lowrise (836 units) and N. Bethesda/Rockville high-rise (470 units) led in absorption over the year, followed

by Frederick low-rise (357 units). Stabilized vacancy increased 10 basis points from a year ago. Pipeline decreased by about 9% from last quarter and deliveries are expected to decrease by 41% in the 12-month period ending September 2018 compared to what came online over the past year. Rising low-rise rents offset falling midand high-rise rents resulting in a small combined increase of 0.7%.

Annual absorption in The District was up 37% from a year ago, with the Capitol Hill/Riverfront/SW submarket experiencing a significant increase (up 157%). Stabilized vacancy increased 30 basis points over the year, and rents decreased from one year ago, which is not a surprise given the amount of new product that entered the market in recent months. What is surprising is the submarkets where most of the new supply has entered the market - Capitol Hill/Riverfront/SW and NoMa/H Street, outperformed the District as a whole. The Capitol Hill/Riverfront/SW submarket was one of two submarkets where rents increased, while in NoMa/H Street, rent change was negative, but was better than the District average. Vacancy also decreased in these two submarkets, while the city-wide rate increased. This indicates these areas of the city are benefiting from new residents at the expense of some of the

more established areas of the District.



WASHINGTON INVESTMENT SALES

With \$2.24 billion of multifamily Class A building transaction volume in 25 trades in 2016, sales volume was 14% lower than 2015. The average per-unit price for 2016 sales was 18.3% lower than 2015 for low-rise units (at \$218,195), while high-rise prices were up 7.4% from 2015 (at \$428,720).

Through early September, 18 Class A multifamily sales have closed this year (low-rise and mid-/high-rise properties), accounting for more than 5,137 units with a combined value of \$1.45 billion.

A total of nine multifamily land sales closed in 2016, totaling nearly \$200 million, with the capacity for more than 3,000 multifamily units, compared with \$149 million in sales during the same time period in 2015 with the capacity for more than 2,800 units. So far in 2017, 12 multifamily land sales have been recorded that can accommodate more than 2.500 units at a combined value of nearly \$198 million.

GROWING DEMAND

Class A apartment absorption in the Washington area was 11,126 units in the 12-month period ending September 2017 – well above the 10-year annual average. Contributing factors to these strong results include:

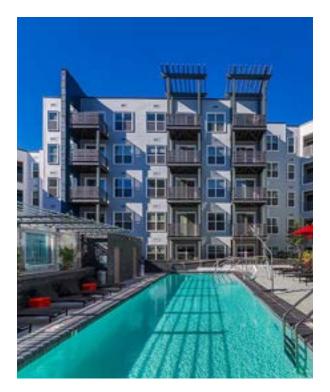
- A plentiful supply of new apartments.
- An increase in the types of jobs and income categories that tend to generate demand for rental apartments rather than ownership housing.
- An increase in the overall share of renter households vs. owners.
- An increase in Millennial households that tend to/ prefer to rent rather than own.

This "new normal" level of apartment absorption since 2014 has almost consistently kept annual absorption

above 10,000 units. While job growth is strong and supply remains plentiful, the wave of new Millennial households that helped the region absorb a record 13,249 apartments in calendar year 2015 appears to be slowly subsiding. We project annual demand averaging 10,000 Class A units over the next three years with 2017 being the strongest year within the projection period. Our projected average annual demand is lower than the 11.258 units absorbed in the 12-month period ending September 2017, but substantially higher than the 10-year average.

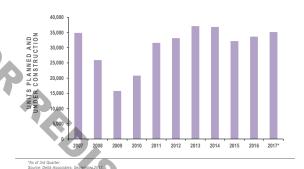
SUPPLY/DEMAND AND RENT OUTLOOK

Although the 36-month pipeline is high across the metro area, absorption has been running well above the longterm average in recent years, which has kept vacancy in check. When the prior year's absorption is compared to the development pipeline at the submarket level, 14 low-rise



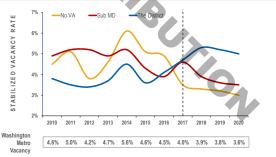
MARKET RATE APARTMENT DEVELOPMENT PIPELINE

Washington Metro I 2007 - 2017



CLASS A APARTMENT VACANCY RATE

Washington Metro | Fourth Quarter 2010 - 2



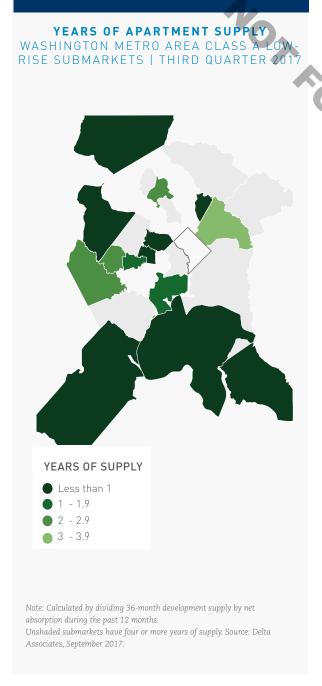
ANNUAL CLASS A APARTMENT RENT GROWTH

Washington Metro | 2004 - 2020



submarkets in Northern Virginia and Suburban Maryland – mostly outside the Beltway – have less than four years of supply (or one year's worth of product overhang). Nine of these submarkets have less than two years of supply and could be considered supply-constrained. There are also 10 high-rise submarkets that have less than four years of supply; three of these have less than two years of supply. This suggests there are still development opportunities in the metro area, despite an overall market perception of supply. (See heat maps to the right.)



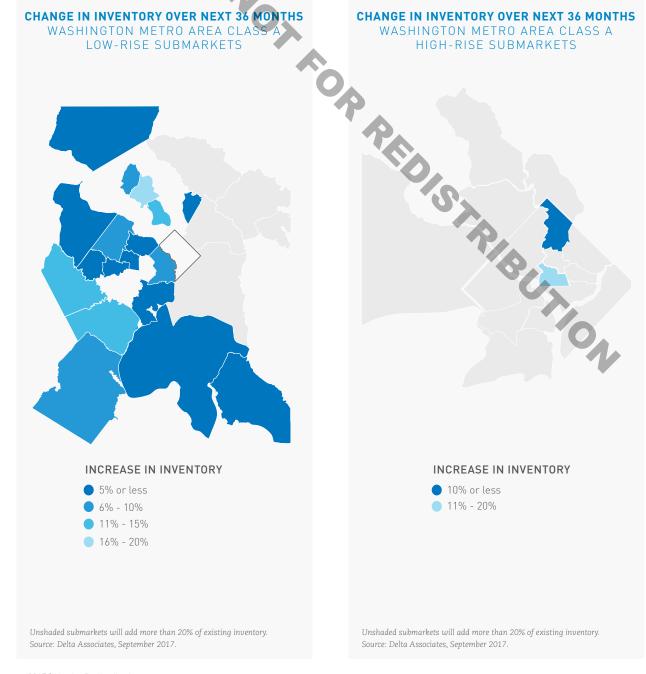




Another way of looking at the development pipeline at the submarket level is new supply relative to existing inventory. In all but seven low-rise submarkets, the projected oncoming supply over the next 36 months represents less than 10% of existing inventory. Among high-rise submarkets, there is only one submarket (Upper GA) where oncoming supply makes up less than 10% of existing inventory. In submarkets where new pipeline represents a relatively smaller increase in inventory, negative impacts on vacancy and rent growth will be less than in other locations. (See heat maps on the right.)

Given projected absorption and the delivery schedule of projects currently under construction, we expect the region-wide vacancy rate for stabilized Class A apartment properties will be 50 basis points lower in three years than it is today - 3.5%. There will be a significant variance in conditions among submarkets.

Rents have thus far held up surprisingly well despite increased competition over the past couple of years, thanks to strong absorption. Also aiding the Class A market has been strong occupancy in the Class B market. However, rent growth for low-rise Class A product is outperforming mid- and high-rise product. We expect regional Class A rent growth to remain below the longterm average over the next three years, increasing by 0.75% in 2017 and by 2.0% - 2.5% in 2018 and 2019.



BALTIMORE METRO AREA

NEW DEVELOPMENT ATTRACTING RESIDENTS TO BALTIMORE

The Baltimore metro area continued to register strong absorption in the 12-month period ending September 2017 – 1,930 units compared to 2,008 units in the same period a year prior. Nearly 40% of the apartment absorption in the metro area was in Baltimore City. Meanwhile, the development pipeline is down slightly from a year ago, but up from last quarter. Rents fell 0.7% over the year and vacancy was up by 70 basis points. Only two projects began construction in the third quarter and four so far in 2017. Total return on apartment investment (cash flow plus appreciation, as reported by NCREIF) in the Baltimore market was 5.32% in the 12-month period ending June 2017 – well below the national average.

THIRD QUARTER 2017 HIGHLIGHTS

- **Stabilized vacancy** for the Baltimore metro area is up 70 basis points from last year to 4.6%. Vacancy in the suburbs increased by 120 basis points to 4.5% while in Baltimore City, it decreased 50 basis points to 5.0%.
- Average effective rents in the metro area are \$1,674 (\$1.73 per SF). Rents are down over the year 0.7% metro-wide. Harford County was the only suburban submarket that experienced a rent increase over the past 12 months. Rents fell by 1.9% in the Southern suburbs and 1.2% in the Northern suburbs. Meanwhile, rents in Baltimore City rose by 1.8%.
- The supply pipeline metro-wide is down less than 1% compared to the pipeline in September 2016. About 8,300 units are under construction or planned for delivery in the next 36 months in the metro area after attrition, similar to one year ago. The submarkets where the development pipeline increased from a year ago were Howard County/ Columbia (up 4%) and Downtown (up 25%).

- Per project lease-up pace for the 22 actively marketing projects in the Baltimore area currently averages 16 units per month, which compares to an average of 15 units per project per month a year ago. Projects that recently stabilized have an average lease-up pace of 10 units per month.
- Apartment building sales in 2016 were \$805.2 million (\$213,817 per unit) across 14 transactions 12 low-rise and two mid-/high-rise buildings. This volume is more than double that of 2015, which had just under \$400 million in transactions, led by the record-breaking price for Union Wharf, which sold for \$121.5 million, or \$432,384 per unit. Through early September, five transactions in low-rise buildings valued at a total of \$292.4 million (\$238,653 per unit) and one transaction in a high-rise building valued at a total of \$73.3 million (\$241,118 per unit) closed so far in 2017.

We project that strong Class A apartment absorption – due to recent demographic and lifestyle shifts that generate rental demand – will help lessen the impact of an increase in supply. Five of the eight submarkets we track have less than four years of apartment supply based on absorption over the past 12 months. In addition, two submarkets will add less than 10% of existing inventory over the next 36 months. Baltimore's supply/demand relationship indicates that vacancy rates will decrease

EFFECTIVE RENT AND VACANCY RATE

Class A Apartments | Baltimore Metro



*As of 3rd Quarter. Source: Delta Associates, September 2017





Unshaded submarkets will add more than 20% of existing inventory. Source: Delta Associates, September 2017.



Note: Calculated by dividing 36-month development supply by net absorption during the past $12\ months$.

Unshaded submarkets have four or more years of supply. Source: Delta Associates, September 2017.

40 basis points to 4.2% by third quarter 2020; however, we expect vacancy to fluctuate during this three-year period. Rents will likely grow only slightly over the next 24 to 36 months, below the long-term average.

PHILADEL PHIA METRO AREA

STRONG ABSORPTION BODES WELL FOR THE CITY AS VACANCY INCREASES IN THE **PA SUBURBS**

Rent growth was slightly below the long-term average while vacancy rates increased metro-wide. The pipeline of likely deliveries over the next 36 months in the city remained elevated, but declined slightly from the third quarter of 2016 as some projects have been delayed. Increased construction may restrain rent growth and push up vacancy rates in the near-term.

The metro area Class A stabilized vacancy rate increased by 30 basis points from a year ago to 2.7% at third quarter 2017. Increases in stabilized vacancy in Suburban Pennsylvania were offset by decreases in Southern New Jersey and the City of Philadelphia during the same time period.

- Stabilized vacancy in Southern New Jersey fell 60 basis points from 1.9% last year at this time to 1.3%.
- Suburban Pennsylvania stabilized vacancy increased by 140 basis points from September 2016 to 3.6%.
- Stabilized vacancy decreased by 20 basis points in the City of Philadelphia from 2.4% one year ago to 2.2%

Rents increased in all suburban submarkets and the City of Philadelphia. Here are the effective rent changes by sub-area for the 12-month period ending September 2017:

- Southern New Jersey up 3.1%
- Suburban Pennsylvania up 2.9%
- City of Philadelphia up 0.5%

Metro-wide, effective rents rose 2.1% in the 12-month period ending September 2017. Average metro-wide effective rents at third quarter 2017 are \$1,856, or \$1.96 per SF. Effective rents average \$2,253 (\$2.51 per SF) for high-rise product in the City of Philadelphia and \$1,629 (\$1.65 per SF) for low-rise product in the suburbs.

Apartment building sales volume in 2016 was \$237.3 million in five transactions, a 75% decrease from 2015. Through early September, three transactions in low-rise buildings valued at a total of \$145.4 million (\$225,776 per unit) and one high-rise building transaction valued at a total of \$118 million (\$427,536 per unit) closed so far in 2017.

CITY OF PHILADELPHIA

The demand for quality rental apartments in Philadelphia remains strong thanks to lifestyle, economic, and demographic trends that favor apartment living. While absorption increased by 59% over the year to 1,588 units compared to 997 units the prior year, rents in the 12-month period ending September 2017 increased by just 0.5%.

New construction activity has experienced an uptick since this time last year - six construction starts occurred in the past 12 months, with three projects starting construction in the third quarter. While new construction activity has increased, the development pipeline decreased slightly, though it remains elevated. At September 2017, 4,397 units are in the

36-month development pipeline after attrition, a decrease of 2.5% from a year ago. Per project lease-up lease up for the 10 actively marketing projects in the City of Philadelphia currently averages 10 units per month.

In the near-term, this supply/demand relationship indicates that stabilized vacancy will be slightly higher in three years than it is today. Rent growth will likely remain below the long-term average in the short-term, as new product comes online.

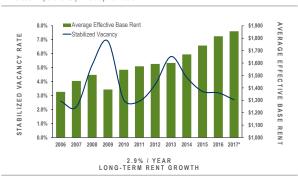
SUBURBAN PENNSYLVANIA

In Suburban Pennsylvania, effective rents increased by 2.9% over the past 12 months. Rents increased in all submarkets, led by Bucks County (9.4%), and followed by Montgomery County (2.4%) and Delaware & Chester Counties (1.3%).

Meanwhile, the stabilized vacancy rate in Suburban Pennsylvania increased to 3.6% in September 2017 from 2.2% a year ago. Stabilized vacancy increased in Montgomery County (up 170 basis points to 4.4%), Delaware & Chester Counties (up 120 basis points to 3.4%) and Bucks County (up 30 basis points to 1.4%).

EFFECTIVE RENT AND VACANCY RATE

Class A Apartments I Philadelphia Metro



*As of 3rd Quarter. Source: Delta Associates, September 2017

A WORD ABOUT OUR **DEFINITION OF VACANCY RATE**

We sometimes hear from apartment developers and managers that their portfolio vacancy rate is 200 to 400 basis points higher than the numbers we report, which places them under unfair investor scrutiny. While we state methodological matters at the end of our report (Section 5), we thought it appropriate to describe here our term "vacancy."

When we conduct our quarterly surveys, we obtain information on "units available to lease" - that is, physical vacancy. Obtaining the information this way, of course, may produce several important differences from "vacancy" as reported in your financial statements. Simply stated, the difference can be characterized as:

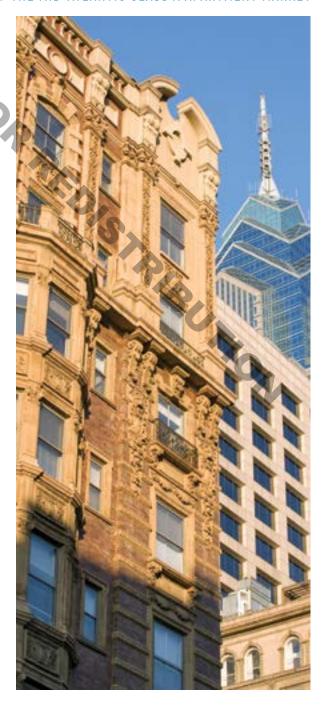
Delta's Definition: Available units to lease Operating Statement Vacancy: Economic vacancy

Our definition (available units) may therefore be understated compared to yours (economically vacant) by our exclusion of units occupied by non-paying tenants (which we cannot know), and of units not available for lease, such as employee units and model apartments. We estimate that this adds about 100 to 150 basis points to your definition of vacancy, as compared with ours. Our vacancy rate may also be understated, compared with yours, by our exclusion of what are economically vacant, on-notice units for which a lease to occupy in the future has been signed (hence, they are not currently available to lease). We estimate that this potentially adds another 150 to 200 basis points to your definition of vacancy, as compared to ours.

SOUTHERN NEW JERSEY

In Southern New Jersey, effective rents increased by 3.1% over the past 12 months. Burlington County effective rents were up 1.9% and Camden County rents increased 4.2% in the 12-month period ending September 2017. Rent growth in Mercer County was 1.8%.

The stabilized vacancy rate in Southern New Jersey is down 60 basis points, to 1.3% as of September 2017. The vacancy rate in Camden County went down to 1.6% in the third quarter 2017 from 2.8% last year at this time. Burlington County also experienced a decline in vacancy, from 1.3% one year ago to 0.9%. Lastly, Mercer County saw a decrease of 130 basis points to 2.3%.



3.5%

		ABLE 2.1		
	PROJECTED THIRD QL	JARTER 2020 VACANCY RA	TES	
	Washington Metro Are	ea Class A Apartment Mar	ket	
	As of Thi	ird Quarter 2017		
	Northern	Suburban	The	Metro Area
	Virginia	Maryland	District	Total
	Inv	entory (units)		
Stabilized Inventory at 9/17	69,077	36,972	24,889	130,938
Pipeline Through 9/20 w/ attrition ¹	<u>12,275</u>	<u>8,889</u>	<u>13,973</u>	<u>35,137</u>
Inventory at 9/20	81,352	45,861	38,862	166,075
		vs. Demand (units)		
Vacant Units at 9/17 ²	2,418	1,702	1,167	5,301
New Supply Through 9/20	<u>12,275</u>	<u>8,889</u>	<u>13,973</u>	35,137
Available Units Through 9/20	14,693	10,591	15,140	40,438
Hadarking Domand Through 0 /20 3	12,300	8,700	9,000	30,000
Underlying Demand Through 9/20 ³	12,300	8,700	9,000	30,000
Vacant Units at 9/20	2,393	1,891	6,140	10,438
,	, , , , , , , , , , , , , , , , , , , ,	7		
	Vacancy Rate	e at Third Quarter 2017		
Overall Vacancy at 9/17 ⁴	5.4%	8.0%	12.7%	7.6%
Stabilized Vacancy at 9/17	3.5%	4.6%	4.7%	4.0%
	Projected Vacancy	Rate at Third Quarter 2020		
Overall Vacancy at 9/20 4,5	2.9%	4.1%	15.8%	6.3%

3.5%

4.9%

We assume 32% of the planned units will materialize, making a 36-month pipeline of 35,137 units. See deliveries by year 2020 on Tables 3.13, 3.14, 3.17, 3.18, 3.21, and 3.22.

2.9%

Stabilized Vacancy at 9/20

Underlying demand projections are driven by job growth, lifestyle changes, demoographics and other factors cited in the preceding text.

36-Month Average/Year for Metro Area = 10,000 units.

Source: Delta Associates; September 2017.

¹ Available units in apartment buildings currently under construction plus those planned to deliver by Third Quarter 2020 totals 48,743 units.

² In stabilized projects only.

 $^{^3}$ Projected annual underlying demand: Northern VA - 4,100 units; Suburban MD - 2,900 units; The District - 3,000 units.

⁴ Includes vacant units in projects still in initial lease-up.

⁵ Assumes an attrition rate averaging 68% for planned units in the 36-month pipeline in Northern Virginia, Suburban Maryland, and The District.

TABLE 2.2 RENTAL UNIT ABSORPTION SUMMARY

Washington Metro Area | Investment Grade Class A and Class B Apartments

12-Month Period Ending September 2017

	Northern Virginia	Suburban Maryland	The District	Metro Area Total
Class A Unit Absorption	4,800	2,660	3,666	11,126
Class B Unit Absorption	84	231	(108)	207
Total Absorption	4,884	2,891	3,558	11,333

Source: Delta Associates; September 2017.

4.2%

5.3%

	PROJECTED THIRD QU Baltimore Metro Area	ABLE 2.3 JARTER 2020 VACANCY RA a Class A Apartment Mar ird Quarter 2017		
	Southern Suburbs	Northern Suburbs	Baltimore City	Metro Area Total
		rentory (units)	Oity	Total
Stabilized Inventory at 9/17	12,058	9,499	7,438	28,995
Pipeline Through 9/20 w/ attrition ¹	<u>2,874</u>	<u>742</u>	4,620	<u>8,236</u>
Inventory at 9/20	14,932	10,241	12,058	37,231
	Supply	vs. Demand (units)	70	
Vacant Units at 9/17 ²	632	336	372	1,346
New Supply Through 9/20	<u>2,874</u>	<u>742</u>	4,620	<u>8,236</u>
Available Units Through 9/20	3,506	1,078	4,992	9,582
Underlying Demand Through 9/20 ³	2,400	720	2,880	6,000
Vacant Units at 9/20	1,106	358	2,112	3,582
		e at Third Quarter 2017		
Overall Vacancy at 9/17 ⁴	9.5%	4.2%	15.2%	9.4%
Stabilized Vacancy at 9/17	5.2%	3.5%	5.0%	4.6%
	Projected Vacancy	Rate at Third Quarter 2020		
Overall Vacancy at 9/20 ^{4,5}	7.4%	3.5%	17.5%	9.6%

3.2%

4.0%

Stabilized Vacancy at 9/20

Source: Delta Associates; September 2017.

¹ Available units in apartment buildings currently under construction plus those planned to deliver by Third Quarter 2020 totals 11,595 units. We assume 35% of the planned units will materialize, making a 36-month pipeline of 8,236 units. See deliveries by year 2020 on Tables 4.5 and 4.6.

² In stabilized projects only.

 $^{^3}$ Projected annual underlying demand: Southern Suburbs - 800 units; Northern Suburbs - 240 units; Baltimore City - 960 units. Underlying demand projections are driven by job growth, lifestyle changes, demoographics and other factors cited in the preceding text. 36-Month Average/Year for Metro Area = 2,000 units.

⁴ Includes vacant units in projects still in initial lease-up.

⁵ Assumes an attrition rate averaging 65% for planned units in the 36-month pipeline in the Southern Suburbs, Northern Suburbs, and Baltimore City.

TABLE 2.4

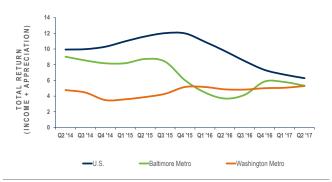
NATIONAL COUNCIL OF REAL ESTATE INVESTMENT FIDUCIARIES

Return Index | Investment Grade Apartment Properties 12 Months Ending June 2017 1

14.	Mondis Ending Julie 2017	
METRO AREA	12-MONTH TOTAL RETURN ¹	5
Denver	9.48%	
Phoenix	8.50%	7
Atlanta	7.07%	
Dallas	6.91%	
Boston	6.84%	
National Average	6.28%	0'3
Austin	5.52%	
Baltimore	5.32%	
Washington	5.29%	
Chicago	3.64%	
Houston	-2.03%	

TOTAL APARTMENT INVESTOR RETURNS

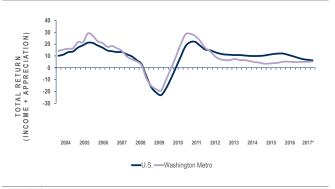
Washington & Baltimore Metro Areas vs. U.S. | Second Quarter 2014 – Second Quarter 2017



Source: NCREIF, Delta Associates, September 2017

TOTAL APARTMENT INVESTOR RETURNS

Washington Metro vs. U.S. | 2004 - 2017



*As of 2nd Quarter. Source: NCREIF, Delta Associates, September 2017.

¹ NCREIF compiles returns based on its members' \$70 billion apartment portfolio. *The index includes both current income and estimated capital appreciation returns.* Source: Delta Associates, based on trailing 12-month data in NCREIF "Real Estate Performance Report: Second Quarter 2017".

		TABLE 2.5				
	MEDIAN INCOME AND EXPE	NSE DATA COMPARISON	BY PROPERTY TYPE:			
	Market-Rate Re	ntal Properties in Washin	gton MSA			
		GARDEN			ELEVATOR	
Total Number of Properties		87			35	
Total Number of Units		26,719			7,385	
REVENUE	\$/SF	\$/UNIT	% OF GPI	\$/SF	\$/UNIT	% OF GPI
Rents Apartments	18.88	17,431	94.8	30.73	24,721	93.6
Rents Garage/Parking	0.17	172	0.7	0.94	747	2.6
Rents Storage/Offices	0.48	412	2.2	1.03	961	4.1
Gross Possible Rents	19.13	17,648	95.5	31.20	25,387	96.5
Concessions	0.16	124	0.8	0.05	47	0.2
Vacancies/Rent Loss	1.05	962	5.1	1.57	1,693	6.1
Total Rents Collected	17.64	16,084	88.1	28.97	22,594	87.6
Other Income	1.05	990	4.8	1.24	1,093	3.6
Gross Possible Income ("GPI")	20.39	18,576	100.0	32.68	26,321	100.0
Total Collections	18.87	16,839	93.9	29.35	23,394	93.8
EXPENSES					OA	
Management Fee	0.71	648	3.7	0.94	721	2.9
Other Administrative	1.22	1,010	5.7	1.11	1,124	3.6
Supplies	0.09	84	0.5	0.07	58	0.2
Heating Fuel Common Areas only	0.03	32	0.2	0.16	150	0.6
Common Areas & Apts	0.65	573	3.5	0.41	409	1.9
Electricity Common Areas only	0.16	140	0.7	0.62	508	1.6
Common Areas & Apts	0.80	462	3.3	1.10	1,107	3.9
Water/Sewer Common Areas Only	0.48	460	2.1	0.56	478	1.6
Common Areas & Apts	0.72	619	3.6	0.74	738	3.2
Gas Common Areas Only	0.05	45	0.2	0.15	93	0.4
Common Areas & Apts	0.45	281	1.2	0.16	184	0.7
Building Services	0.26	219	1.2	0.49	447	1.7
Other Operating Costs	0.05	42	0.2	0.15	124	0.5
Security	0.03	37	0.2	0.10	93	0.3
Grounds Maintenance	0.24	214	1.3	0.15	118	0.5
Maintenance & Repairs	0.63	589	3.2	0.97	846	3.3
Painting/Decorating	0.27	239	1.3	0.24	227	0.8
Real Estate Taxes	2.02	1,765	9.3	2.67	2,448	8.6
Other Tax/Fee/Permit Costs	0.05	44	0.2	0.09	60	0.2
Insurance	0.26	231	1.3	0.26	220	0.8
Recreational/Amenities Costs	0.07	68	0.4	0.03	26	0.1
Other Payroll	1.10	1,032	5.4	1.51	1,017	3.8
Total Operating Expenses	7.78	7,101	36.9	11.45	9,152	34.1
Net Operating Income	10.67	10,222	53.7	16.34	15,608	60.0

Source: Institute of Real Estate Management, Conventional Apartments: Income/Expense Analysis, 2017 edition.

Notes:

- Reflects operating data for the year ending 2016.
- Because data are medians, detailed amounts may not add precisely to totals, and percentages may not add to 100.
- Data exclude federally assisted apartment buildings.
- For utilities: Electricity and Gas expense categories are not to include any heating expense, according to instructions to respondents.
 - "Common Areas Only" represents the median cost of that utility in the common areas of the building (and not its use, if any, in the residential units).
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- Payroll expenses: data contributors were instructed to INCLUDE related payroll expenses when reporting the following expense categories: Other Administrative Costs, Security, Grounds Maintenance, Painting and Decorating (Interior Only), and Recreational Amenities. All remaining payroll expenses, including the amount paid to janitors, maids, and interior maintenance personnel, were to be reported in the expense category "Other Payroll". The IREM publication also provides a line item "Payroll Recap" recapitulating (that is, cumulating) all the various PAYROLL expenses reported in any of those
- The operating expenses reported by IREM do NOT reflect such items as ground rent, mortgage interest, amortization, depreciation, income taxes, or capital expenditures for alterations, improvements, or remodeling of occupied or public areas -- and so the "Net Operating Income" amounts shown in the tables are what is sometimes termed EBITDAR income.

		TABLE 2.6				
	MEDIAN INCOME AND EXPEN	ISE DATA COMPARISON	BY PROPERTY TYPE:			
	Market-Rate Re	ntal Properties in Baltim	ore MSA			
		GARDEN			ELEVATOR	
Total Number of Properties		43			10	
Total Number of Units		9,837			1,430	
REVENUE	\$/SF	\$/UNIT	% OF GPI	\$/SF	\$/UNIT	% OF GPI
Rents Apartments	15.02	14,079	98.6	21.59	17,414	96.6
Rents Garage/Parking	0.12	89	0.6	0.64	517	3.4
Rents Storage/Offices	0.09	86	0.7	0.75	570	3.6
Gross Possible Rents	15.12	14,079	99.5	21.89	17,783	100.0
Concessions	0.15	145	1.1	0.16	139	0.9
Vacancies/Rent Loss	0.86	804	6.3	0.90	766	3.9
Total Rents Collected	13.64	12,356	91.4	19.30	16,396	95.5
Other Income	0.69	609	3.9	0.53	555	3.4
Gross Possible Income ("GPI")	15.28	14,477	100.0	23.19	17,783	100.0
Total Collections	14.06	12,617	92.3	19.99	16,648	95.6
EXPENSES					COYA .	
Management Fee	0.59	530	3.9	0.75	692	4.9
Other Administrative	1.27	1,144	8.0	1.84	1,562	10.7
Supplies	0.18	159	0.8	0.20	173	0.9
Heating Fuel Common Areas only	0.07	50	0.5	0.34	294	1.6
Common Areas & Apts	0.16	164	0.8	0.42	437	2.8
Electricity Common Areas only	0.16	151	1.0	0.31	413	2.5
Common Areas & Apts	0.50	473	1.5	0.98	979	5.5
Water/Sewer Common Areas Only	0.15	146	0.9	0.31	326	1.3
Common Areas & Apts	0.49	459	2.4	0.50	444	2.8
Gas Common Areas Only	0.15	133	0.8	0.67	249	2.3
Common Areas & Apts	0.03	24	0.1	0.39	331	2.1
Building Services	0.19	160	1.1	0.19	127	0.8
Other Operating Costs	0.05	54	0.3	0.00	0	0.0
Security	0.02	11	0.1	0.04	22	0.2
Grounds Maintenance	0.13	121	0.8	0.04	37	0.2
Maintenance & Repairs	1.00	969	6.1	1.48	996	6.3
Painting/Decorating	0.22	200	1.4	0.34	207	1.5
Real Estate Taxes	1.20	1,149	8.0	1.73	1,246	7.8
Other Tax/Fee/Permit Costs	0.01	7	0.1	0.02	22	0.1
Insurance	0.27	249	1.8	0.40	350	2.1
Recreational/Amenities Costs	0.06	54	0.4	0.10	87	0.6
Other Payroll	1.46	1,286	9.7	1.77	1,548	9.5
Total Operating Expenses	7.12	7,029	47.6	10.03	8,578	53.8
Net Operating Income	6.73	6,775	45.3	7.79	6,816	41.8

Source: Institute of Real Estate Management, Conventional Apartments: Income/Expense Analysis, 2017 edition.

Notes:

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		TABLECT				
		TABLE 2.7				
	MEDIAN INCOME AND EXPE	NSE DATA COMPARISON	BY PROPERTY TYPE:			
	Market-Rate Rer	ntal Properties in Philade	lphia MSA			
		GARDEN			ELEVATOR	
Total Number of Properties		28			13	
Total Number of Units		5,651			3,661	
REVENUE	\$/SF	\$/UNIT	% OF GPI	\$/SF	\$/UNIT	% OF GPI
Rents Apartments	15.22	13,380	95.8	23.12	19,564	87.4
Rents Garage/Parking	0.47	544	2.2	1.10	919	4.2
Rents Storage/Offices	0.18	175	1.0	1.66	1,382	6.3
Gross Possible Rents	15.42	13,380	95.8	25.26	21,434	93.5
Concessions	0.03	21	0.2	0.12	110	0.4
Vacancies/Rent Loss	0.90	802	5.8	1.18	1,171	4.6
Total Rents Collected	14.52	12,404	90.0	23.61	18,711	85.7
Other Income	0.62	561	4.2	1.44	1,542	6.6
Gross Possible Income ("GPI")	16.21	13,676	100.0	26.28	21,893	100.0
Total Collections	15.23	12,668	94.2	24.72	20,709	95.4
EXPENSES						
Management Fee	0.58	505	3.7	0.65	498	2.5
Other Administrative	0.98	807	6.2	0.67	559	3.7
Supplies	0.04	39	0.3	0.08	58	0.3
Heating Fuel Common Areas only	0.07	76	0.5	0.23	219	1.0
Common Areas & Apts	0.59	461	3.0	0.53	493	2.4
Electricity Common Areas only	0.14	112	0.8	0.41	237	1.5
Common Areas & Apts	0.26	265	3.7	0.68	635	3.4
Water/Sewer Common Areas Only	0.68	675	3.8	0.35	347	1.3
Common Areas & Apts	0.68	530	4.2	0.55	429	2.8
Gas Common Areas Only	0.10	72	0.7	0.09	73	0.3
Common Areas & Apts	0.33	233	2.1	0.70	747	2.7
Building Services	0.23	174	1.3	0.99	707	3.3
Other Operating Costs	0.15	167	1.0	0.72	586	2.6
Security	0.13	111	0.8	0.66	638	2.6
Grounds Maintenance	0.28	267	1.9	0.12	123	0.4
Maintenance & Repairs	0.48	444	3.2	0.67	438	3.4
Painting/Decorating	0.24	187	1.6	0.19	162	0.8
Real Estate Taxes	1.46	1,270	8.8	1.95	1,728	7.6
Other Tax/Fee/Permit Costs	0.10	87	0.7	0.22	121	0.7
Insurance	0.39	361	2.9	0.34	265	1.3
Recreational/Amenities Costs	0.05	39	0.3	0.02	23	0.1
Other Payroll	1.15	995	8.0	1.52	1,000	5.9
Total Operating Expenses	6.34	5,785	43.7	8.89	7,107	32.5
Net Operating Income	8.61	6,820	50.6	15.63	13,273	58.3

 $\textbf{Source}: \ \textit{Institute of Real Estate Management, Conventional Apartments: Income/Expense Analysis, 2017 edition.}$

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		TABLE 2.8				
	MEDIAN INCOME AND EXPEN	ISE DATA COMPARISON	BY PROPERTY TYPE:			
	Market-Rate Rental	Properties in the Mid-At	lantic Region			
		GARDEN			ELEVATOR	
Total Number of Properties		297			83	
Total Number of Units		69,801			16,680	
REVENUE	\$/SF	\$/UNIT	% OF GPI	\$/SF	\$/UNIT	% OF GPI
Rents Apartments	14.59	12,958	95.4	23.15	29	92.8
Rents Garage/Parking	0.13	129	0.7	0.60	1	2.5
Rents Storage/Offices	0.10	90	0.7	1.48	2	5.9
Gross Possible Rents	14.60	12,958	95.9	24.56	30	96.4
Concessions	0.09	82	0.6	-0.11	0	0.4
Vacancies/Rent Loss	0.76	694	5.2	1.26	2	5.3
Total Rents Collected	13.57	12,222	88.8	22.40	28	87.6
Other Income	0.79	671	4.8	1.21	2	4.5
Gross Possible Income ("GPI")	15.14	13,643	100.0	25.65	31	100.0
Total Collections	14.24	12,639	94.1	24.15	29	93.9
EXPENSES						
Management Fee	0.61	546	3.9	0.78	621	3.1
Other Administrative	0.99	832	6.4	1.33	1,166	6.5
Supplies	0.06	45	0.3	0.08	58	0.3
Heating Fuel Common Areas only	0.04	37	0.3	0.16	151	0.7
Common Areas & Apts	0.38	308	2.5	0.41	357	1.7
Electricity Common Areas only	0.13	115	0.8	0.40	353	1.5
Common Areas & Apts	0.60	473	3.7	0.95	788	3.8
Water/Sewer Common Areas Only	0.50	475	3.2	0.50	443	1.8
Common Areas & Apts	0.65	568	4.2	0.65	477	2.9
Gas Common Areas Only	0.04	34	0.2	0.09	83	0.4
Common Areas & Apts	0.19	153	1.1	0.21	184	1.1
Building Services	0.16	147	1.1	0.24	186	1.0
Other Operating Costs	0.05	44	0.2	0.24	196	0.7
Security	0.04	38	0.3	0.08	86	0.3
Grounds Maintenance	0.25	224	1.7	0.12	103	0.5
Maintenance & Repairs	0.62	569	4.1	0.76	666	3.3
Painting/Decorating	0.22	193	1.4	0.24	207	1.0
Real Estate Taxes	1.18	1,075	7.8	1.94	1,687	8.2
Other Tax/Fee/Permit Costs	0.02	15	0.1	0.06	50	0.2
Insurance	0.27	245	1.8	0.29	250	1.5
Recreational/Amenities Costs	0.08	71	0.5	0.03	26	0.1
Other Payroll	1.06	955	7.1	1.23	986	4.5
Total Operating Expenses	6.59	5,943	43.0	9.47	7,575	37.0
Net Operating Income	7.68	6,820	50.5	14.17	11,386	55.4

 $\textbf{Source}: Institute \ of \textit{Real Estate Management, Conventional Apartments: Income/Expense Analysis, 2017 \ edition.}$

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		TABLE 2.9				
	MEDIAN INCOME AND EXPEN	SE DATA COMPARISON	BY PROPERTY TYPE:			
		tal Properties in the Unit				
		GARDEN			ELEVATOR	
Total Number of Properties		2,552			358	
Total Number of Units		578,951			80,620	
REVENUE	\$/SF	\$/UNIT	% OF GPI	\$/SF	\$/UNIT	% OF GPI
Rents Apartments	13.38	11,902	93.8	22.55	19,377	93.8
Rents Garage/Parking	0.14	128	0.9	0.48	435	2.0
Rents Storage/Offices	0.12	107	0.9	1.05	961	3.6
Gross Possible Rents	13.49	11,970	94.2	23.17	19,575	96.5
Concessions	0.05	45	0.3	0.09	73	0.4
Vacancies/Rent Loss	0.91	807	5.9	1.56	1,369	6.6
Total Rents Collected	12.22	10,765	86.6	20.95	17,445	87.3
Other Income	0.85	764	6.0	1.04	876	3.9
Gross Possible Income ("GPI")	14.38	12,790	100.0	24.30	21,041	100.0
Total Collections	13.10	11,685	93.3	22.25	18,605	93.0
EXPENSES						
Management Fee	0.48	444	3.3	0.72	613	2.9
Other Administrative	0.67	617	4.3	1.19	1,038	4.8
Supplies	0.04	35	0.3	0.07	58	0.3
Heating Fuel Common Areas only	0.04	37	0.3	0.11	86	0.5
Common Areas & Apts	0.27	223	1.9	0.41	297	1.9
Electricity Common Areas only	0.15	136	1.0	0.38	334	1.4
Common Areas & Apts	0.26	231	2.7	0.83	698	3.5
Water/Sewer Common Areas Only	0.40	365	2.2	0.44	373	1.6
Common Areas & Apts	0.57	520	4.1	0.54	440	2.7
Gas Common Areas Only	0.03	23	0.2	0.15	108	0.4
Common Areas & Apts	0.13	100	0.9	0.12	81	0.7
Building Services	0.13	117	1.0	0.25	216	1.1
Other Operating Costs	0.08	64	0.6	0.23	195	0.8
Security	0.04	31	0.2	0.06	52	0.3
Grounds Maintenance	0.22	206	1.8	0.17	142	0.8
Maintenance & Repairs	0.50	452	3.4	0.74	584	3.0
Painting/Decorating	0.18	166	1.3	0.23	195	0.8
Real Estate Taxes	1.12	1,004	7.8	2.22	1,824	9.0
Other Tax/Fee/Permit Costs	0.02	17	0.1	0.04	33	0.2
Insurance	0.27	245	1.8	0.36	290	1.4
Recreational/Amenities Costs	0.03	25	0.2	0.03	26	0.1
Other Payroll	0.73	656	5.0	1.02	821	4.0
Total Operating Expenses	5.45	4,942	37.2	9.14	7,563	37.2
Net Operating Income	7.61	6,836	54.4	12.97	10,569	53.4

 $\textbf{Source}: \ \textit{Institute of Real Estate Management, Conventional Apartments: Income/Expense Analysis, 2017 edition.}$

- Reflects operating data for the year ending 2016.
- Because data are medians, detailed amounts may not add precisely to totals, and percentages may not add to 100.
- Data exclude federally assisted apartment buildings.
- For utilities: Electricity and Gas expense categories are not to include any heating expense, according to instructions to respondents.
 - "Common Areas Only" represents the median cost of that utility in the common areas of the building (and not its use, if any, in the residential units).
 - "Common Areas & Apts." provides the median cost of the utility in the common areas and in the individual apartments. This row also includes any buildings where the utility is used only in the apartments but is still paid for by the management.
- Payroll expenses: data contributors were instructed to INCLUDE related payroll expenses when reporting the following expense categories: Other Administrative Costs, Security, Grounds Maintenance, Painting and Decorating (Interior Only), and Recreational Amenities. All remaining payroll expenses, including the amount paid to janitors, maids, and interior maintenance personnel, were to be reported in the expense category "Other Payroll". The IREM publication also provides a line item "Payroll Recap" recapitulating (that is, cumulating) all the various PAYROLL expenses reported in any of those
- The operating expenses reported by IREM do NOT reflect such items as ground rent, mortgage interest, amortization, depreciation, income taxes, or capital expenditures for alterations, improvements, or remodeling of occupied or public areas -- and so the "Net Operating Income" amounts shown in the tables are what is sometimes termed EBITDAR income.



TABLE 3.1

ESTIMATED EFFECTIVE RENT AND STABILIZED VACANCY RATE FOR INVESTMENT GRADE CLASS A AND CLASS B APARTMENTS

Washington Metropolitan Area Third Quarter 2017

			GEOGRAF	PHIC AREA		19		- WASHINGTON METRO AREA	
	NORTHERI	N VIRGINIA	SUBURBAN	MARYLAND	THE DI	STRICT		RAGE	
CLASS A APARTMENTS	VACANCY	EFF RENT	VACANCY	EFF RENT	VACANCY	EFF RENT	VACANCY	EFF RENT	
Low-Rise	3.5%	\$1,702	4.8%	\$1,665	N/A	N/A	4.0%	\$1,687	
Mid & High-Rise	3.5%	\$2,288	4.2%	\$2,188	4.7%	\$2,585	4.1%	\$2,387	
Total Class A	3.5%	\$1,952	4.6%	\$1,828	4.7%	\$2,585	4.0%	\$2,044	
Comparison at 9/16	4.2%	\$1,921	3.4%	\$1,814	4.1%	\$2,625	3.9%	\$2,018	
Comparison at 9/12	3.0%	\$1,825	5.2%	\$1,697	3.5%	\$2,627	3.9%	\$1,867	
CLASS B APARTMENTS	VACANCY	EFF RENT	VACANCY	EFF RENT	VACANCY	EFF RENT	VACANCY	EFF RENT	
Low-Rise	1.5%	\$1,605	2.5%	\$1,453	N/A	N/A	2.0%	\$1,528	
Mid & High-Rise	2.6%	\$1,884	2.3%	\$1,756	2.9%	\$2,048	2.6%	\$1,889	
Total Class B	2.0%	\$1,731	2.5%	\$1,513	2.9%	\$2,048	2.2%	\$1,669	
Comparison at 9/16	2.2%	\$1,706	2.7%	\$1,502	1.6%	\$2,060	2.3%	\$1,652	
Comparison at 9/12	3.2%	\$1,632	4.8%	\$1,423	1.5%	\$1,915	3.6%	\$1,573	
CLASS A & B APARTMENTS	VACANCY	EFF RENT	VACANCY	EFF RENT	VACANCY	EFF RENT	VACANCY	EFF RENT	
Total Class A and B	2.5%	\$1,813	3.2%	\$1,612	4.0%	\$2,393	2.9%	\$1,814	
Comparison at 9/16	3.4%	\$1,840	3.1%	\$1,677	3.6%	\$2,531	3.3%	\$1,883	
Comparison at 9/12	3.1%	\$1,740	5.0%	\$1,582	2.9%	\$2,416	3.8%	\$1,744	

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006.

RENT GROWTH FOR INVESTMENT GRADE CLASS A AND CLASS B APARTMENTS

Washington Metropolitan Area Third Quarter 2017

		Tima Quarter 2017		
		GEOGRAPHIC AREA	O _A	WASHINGTON METRO AREA
	NORTHERN VIRGINIA	SUBURBAN MARYLAND	THE DISTRICT	AVERAGE
CLASS A APARTMENTS				
Annual Rent Growth Since September 2016 ¹				
Low-Rise	1.1%	0.4%	N/A	0.8%
Mid & High-Rise	-0.1%	1.3%	-1.3%	-0.3%
Total Class A	0.5%	0.7%	-1.3%	0.2%
Annual Rent Growth Since September 2012				7/
Total Class A	1.4%	1.5%	-0.3%	1.8%
CLASS B APARTMENTS				
Annual Rent Growth Since September 2016 $^{\mathrm{1}}$				
Low-Rise	1.5%	0.9%	N/A	1.2%
Mid & High-Rise	1.4%	0.0%	-0.6%	0.7%
Total Class B	1.5%	0.7%	-0.6%	1.0%
Annual Rent Growth Since September 2012				·
Total Class B	1.2%	1.2%	1.4%	1.2%
CLASS A & B APARTMENTS				
Annual Rent Growth Since September 2016 $^{\mathrm{1}}$				
Low-Rise	1.4%	0.8%	N/A	1.1%
Mid & High-Rise	0.9%	0.5%	-1.0%	0.3%
Total Class A and B	1.1%	0.7%	-1.0%	0.7%
Annual Rent Growth Since September 2012				
Total Class A and B	0.8%	0.4%	-0.2%	0.8%

¹ Same-store rent comparison.

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006.

KEY MARKET INDICATORS FOR CLASS A RENTAL LOW-RISE APARTMENTS 1

Summary | Suburban Washington Area Third Quarter 2017

		CUDUDDAN WACUINGTON					
MARKET INDICATOR	NORTHI	ERN VIRGINIA SUBM	ARKETS	SUBURB	AN MARYLAND SUBMA	SUBURBAN WASHINGTON AREA TOTAL/AVERAGE	
	CLOSE IN	OUTER	TOTAL	CLOSE IN	OUTER	TOTAL	AREA TOTAL/AVERAGE
Number of Units Surveyed	20,709	19,736	40,445	20,319	6,040	26,359	66,804
Rent Levels (Avg. of All Unit Sizes)					,	77	
Face Rent	\$1,858	\$1,584	\$1,725	\$1,747	\$1,468	\$1,683	\$1,708
Concession as a % of Face Rents	0.9%	1.8%	1.3%	1.1%	1.0%	1.1%	1.2%
Effective Rent	\$1,841	\$1,555	\$1,702	\$1,728	\$1,454	\$1,665	\$1,687
Effective Rent per Square Foot	\$1.91	\$1.56	\$1.74	\$1.76	\$1.40	\$1.68	\$1.71
Annual Effective Rent Increase							0.7
- Since 1998	3.3%	3.9%	3.6%	3.2%	3.5%	3.2%	3.5%
- Since 9/30/12	0.8%	1.4%	1.1%	0.9%	2.4%	1.3%	1,1%
- Since 9/30/16 ²	1.3%	1.1%	1.1%	0.4%	0.8%	0.4%	0.8%
Vacancy September 2017							
Overall ³	4.4%	4.5%	4.5%	7.2%	8.6%	7.5%	5.7%
Stabilized ⁴	3.7%	3.2%	3.5%	4.9%	4.3%	4.8%	4.0%
Vacancy September 2016							
Overall ³	4.8%	6.8%	5.8%	7.8%	4.3%	7.0%	6.3%
Stabilized ⁴	4.3%	4.5%	4.4%	2.9%	3.2%	2.9%	3.8%
Absorption Trends							
# of Market Rate Units Absorbed Over the Past 12 Months	330	1,193	1,523	1,226	352	1,578	3,101
For Comparison							
12-Month Period Ending 9/30/2016	321	970	1,291	1,782	389	2,171	3,462
Supply Projections							
Number of Market Rate Units Under Construction and Available Plus Planned That Are Likely to Be Delivered in the Next 36 Months ⁵	1,212	1,611	2,824	5,017	150	5,167	7,991
For Comparison							
at 9/30/2016	1,124	1,453	2,577	4,623	595	5,218	7,795

 $^{^{1}\,}$ Includes walk-up and elevator-served apartments of one to four stories.

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006.

 $^{^2 \ \}textit{Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.}$

 $^{^{3}\,}$ Includes actively marketing projects.

⁴ Excludes actively marketing projects.

⁵ See list of under construction and planned projects on tables 3.14 through 3.15 and tables 3.18 through 3.19. Under construction includes unleased units in projects not yet stabilized.

KEY MARKET INDICATORS FOR CLASS A RENTAL LOW-RISE APARTMENTS 1

Selected Submarkets | Close-In Northern Virginia

Third Quarter 2017

		SUBMARKET							
MARKET INDICATOR	ALEXANDRIA/ 2 ARLINGTON	TYSONS CORNER	VIENNA/ MERRIFIELD	FAIR OAKS	RESTON/ HERNDON	S AND E FAIRFAX	SUBTOTAL - CLOSE-IN SUBMARKETS	SUBTOTAL- OUTER SUBMARKETS	NORTHERN VIRGINIA TOTAL/AVERAGE
Number of Units Surveyed	5,595	1,279	1,350	4,063	5,450	2,972	20,709	19,736	40,445
Rent Levels (Avg. of All Unit Sizes)									
Face Rent	\$1,970	\$1,926	\$1,968	\$1,816	\$1,743	\$1,836	\$1,858	\$1,584	\$1,725
Concession as a % of Face Rents	1.4%	0.0%	0.8%	0.3%	0.9%	1.4%	0.9%	1.8%	1.3%
Effective Rent	\$1,943	\$1,926	\$1,953	\$1,811	\$1,728	\$1,810	\$1,841	\$1,555	\$1,702
Effective Rent per Square Foot	\$2.04	\$2.11	\$2.00	\$1.90	\$1.72	\$1.90	\$1.91	\$1.56	\$1.74
Annual Effective Rent Increase									
- Since 1998	3.6%	3.1%	3.5%	3.6%	2.8%	N/A	3.3%	3.9%	3.6%
- Since 9/30/12	0.1%	0.7%	0.9%	1.0%	1.3%	0.9%	0.8%	1.4%	1.1%
- Since 9/30/16 ³	0.2%	3.6%	2.1%	1.1%	1.9%	0.8%	1.3%	1.1%	1.1%
Vacancy September 2017									
Overall ⁴	3.4%	4.8%	2.9%	2.4%	4.2%	9.9%	4.4%	4.5%	4.5%
Stabilized ⁵	3.4%	4.8%	2.9%	2.4%	4.2%	5.2%	3.7%	3.2%	3.5%
Vacancy September 2016									YO .
Overall ⁴	4.2%	4.6%	4.1%	7.0%	4.3%	4.2%	4.8%	6.8%	5.8%
Stabilized ⁵	4.2%	4.6%	4.1%	4.2%	4.3%	4.3%	4.3%	4.5%	4.4%
Absorption Trends									•
# of Market Rate Units Absorbed Over the Past 12 Months	46	7	10	168	5	94	330	1,193	1,523
For Comparison									
12-Month Period Ending 9/30/2016	42	0	48	78	126	27	321	970	1,291
Supply Projections									
# of Market Rate Units Under Construction $\&$ Available Plus Planned for Delivery in the Next 36 Months 6	516	0	0	213	342	142	1,212	1,611	2,824
For Comparison									
at 9/30/2016	93	80	0	199	362	390	1,124	1,453	2,577

¹ Includes walk-up and elevator-served apartments of one to four stories.

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006.

² Includes portions of Fairfax County.

 $^{^3}$ Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.

 $^{^{4}}$ Includes actively marketing projects.

⁵ Excludes actively marketing projects.

⁶ See list of under construction and planned projects on tables 3.14 through 3.15 and tables 3.18 through 3.19. Under construction includes unleased units in projects not yet stabilized. Accounts for attrition.

KEY MARKET INDICATORS FOR CLASS A RENTAL LOW-RISE APARTMENTS 1

Selected Submarkets | Outer Northern Virginia

Third Quarter 2017

			Tima Quartor I					
			SUBMARKET					
MARKET INDICATOR	EASTERN LOUDOUN COUNTY	CENTREVILLE	EAST PRINCE WILLIAM COUNTY	WEST PRINCE WILLIAM COUNTY	FREDERICKSBURG	SUBTOTAL- OUTER SUBMARKETS	SUBTOTAL - CLOSE-IN SUBMARKETS	NORTHERN VIRGINIA TOTAL/AVERAGE
Number of Units Surveyed	6,662	2,794	3,493	3,604	3,183	19,736	20,709	40,445
Rent Levels (Avg. of All Unit Sizes)								
Face Rent	\$1,687	\$1,600	\$1,593	\$1,526	\$1,413	\$1,584	\$1,858	\$1,725
Concession as a % of Face Rents	2.4%	0.4%	3.3%	0.1%	2.1%	1.8%	0.9%	1.3%
Effective Rent	\$1,646	\$1,593	\$1,540	\$1,524	\$1,384	\$1,555	\$1,841	\$1,702
Effective Rent per Square Foot	\$1.63	\$1.76	\$1.59	\$1.44	\$1.33	\$1.56	\$1.91	\$1.74
Annual Effective Rent Increase								
- Since 1998	3.4%	3.5%	3.9%	3.8%	5.3%	3.9%	3.3%	3.6%
- Since 9/30/12	1.3%	1.1%	0.1%	1.4%	3.0%	1.4%	0.8%	1,1%
- Since 9/30/16 ²	1.2%	3.2%	-5.0%	3.9%	2.4%	1.1%	1.3%	1.1%
Vacancy September 2017								
Overall ³	3.2%	1.8%	6.1%	2.0%	10.9%	4.5%	4.4%	4.5%
Stabilized ⁴	3.2%	1.8%	6.1%	2.0%	2.8%	3.2%	3.7%	3.5%
Vacancy September 2016								•
Overall ³	7.2%	5.5%	6.8%	9.7%	3.8%	6.8%	4.8%	5.8%
Stabilized ⁴	4.7%	5.5%	4.7%	3.4%	3.8%	4.5%	4.3%	4.4%
Absorption Trends								
# of Market Rate Units Absorbed Over the Past 12 Months	559	53	1	223	357	1,193	330	1,523
For Comparison								
12-Month Period Ending 9/30/2016	259	(16)	502	52	173	970	321	1,291
Supply Projections								
# of Market Rate Units Under Construction & Available Plus Planned for Delivery in the Next 36 Months ⁵	217	115	458	490	332	1,611	1,212	2,824
For Comparison								
at 9/30/2016	437	78	206	231	502	1,453	1,124	2,577

 $^{^{1}}$ Includes walk-up and elevator-served apartments of one to four stories.

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006.

 $^{^{2}}$ Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.

³ Includes actively marketing projects.

⁴ Excludes actively marketing projects.

⁵ See list of under construction and planned projects on tables 3.14 through 3.15 and tables 3.18 through 3.19. Under construction includes unleased units in projects not yet stabilized. Accounts for attrition.

KEY MARKET INDICATORS FOR CLASS A RENTAL LOW-RISE APARTMENTS 1

Selected Submarkets | Close-In Suburban Maryland Third Quarter 2017

				Control of the contro					
			SUBM	ARKET					SUBURBAN MARYLAND TOTAL/AVERAGE
MARKET INDICATOR	ROCKVILLE/ N. BETHESDA	GAITHERSBURG	GERMANTOWN	BURTONSVILLE	N. PRINCE GEORGE'S COUNTY	S. PRINCE GEORGE'S COUNTY	SUBTOTAL- CLOSE- IN SUBMARKETS	SUBTOTAL- OUTER SUBMARKETS	
Number of Units Surveyed	4,634	2,668	2,122	1,627	6,153	3,115	20,319	6,040	26,359
Rent Levels (Avg. of All Unit Sizes)									
Face Rent	\$1,909	\$1,677	\$1,647	\$1,481	\$1,760	\$1,748	\$1,747	\$1,468	\$1,683
Concession as a % of Face Rents	1.3%	0.7%	1.2%	0.2%	1.8%	0.0%	1.1%	1.0%	1.1%
Effective Rent	\$1,884	\$1,666	\$1,627	\$1,478	\$1,728	\$1,748	\$1,728	\$1,454	\$1,665
Effective Rent per Square Foot	\$1.89	\$1.68	\$1.54	\$1.68	\$1.79	\$1.77	\$1.76	\$1.40	\$1.68
Annual Effective Rent Increase									
- Since 1998	2.5%	2.8%	3.6%	3.2%	3.5%	3.5%	3.2%	3.5%	3.2%
- Since 9/30/12	0.0%	0.1%	2.1%	2.2%	1.0%	1.3%	0.9%	2.4%	1.3%
- Since 9/30/16 ²	-0.6%	2.8%	1.8%	1.8%	-1.2%	1.4%	0.4%	0.8%	0.4%
Vacancy September 2017									5).
Overall ³	5.5%	7.2%	6.3%	1.4%	10.7%	6.6%	7.2%	8.6%	7.5%
Stabilized ⁴	5.3%	4.9%	6.3%	1.4%	4.3%	6.6%	4.9%	4.3%	4.8%
Vacancy September 2016									
Overall ³	7.8%	4.9%	6.0%	2.0%	12.5%	5.4%	7.8%	4.3%	7.0%
Stabilized ⁴	2.5%	4.9%	4.5%	1.7%	2.1%	2.7%	2.9%	3.2%	2.9%
Absorption Trends									
# of Market Rate Units Absorbed Over the Past 12 Months	119	161	(45)	4	836	151	1,226	352	1,578
For Comparison									
12-Month Period Ending 9/30/2016	678	28	137	49	325	565	1,782	389	2,171
Supply Projections									
# of Market Rate Units Under Construction & Available Plus Planned for Delivery in the Next 36 Months ⁵	542	436	138	0	2,475	1,426	5,017	150	5,167
For Comparison									
at 9/30/2016	430	582	276	0	2,662	674	4,623	595	5,218

¹ Includes walk-up and elevator-served apartments of one to four stories.

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006.

 $^{^{2}}$ Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.

³ Includes actively marketing projects.

 $^{^4\,}$ Excludes actively marketing projects.

⁵ See list of under construction and planned projects on tables 3.14 through 3.15 and tables 3.18 through 3.19. Under construction includes unleased units in projects not yet stabilized. Accounts for attrition.

TABLE 3.7 KEY MARKET INDICATORS FOR CLASS A RENTAL LOW-RISE APARTMENTS 1

Selected Submarkets | Outer Suburban Maryland

		Third (Quarter 2017			
		SUBMARKET				
MARKET INDICATOR	FREDERICK	CHARLES COUNTY	ST. MARY'S COUNTY	SUBTOTAL- OUTER SUBMARKETS	SUBTOTAL- CLOSE-IN SUBMARKETS	SUBURBAN MARYLAND TOTAL/AVERAGE
Number of Units Surveyed	3,337	1,460	1,243	6,040	20,319	26,359
Rent Levels (Avg. of All Unit Sizes)						
Face Rent	\$1,448	\$1,600	\$1,366	\$1,468	\$1,747	\$1,683
Concession as a % of Face Rents	1.4%	0.0%	1.2%	1.0%	1.1%	1.1%
Effective Rent	\$1,428	\$1,600	\$1,350	\$1,454	\$1,728	\$1,665
Effective Rent per Square Foot	\$1.39	\$1.49	\$1.32	\$1.40	\$1.76	\$1.68
Annual Effective Rent Increase						
- Since 1998	3.3%	3.7%	3.5%	3.5%	3.2%	3.2%
- Since 9/30/12	3.0%	0.1%	3.3%	2.4%	0.9%	1.3%
- Since 9/30/16 ³	0.7%	-3.0%	5.4%	0.8%	0.4%	0.4%
Vacancy September 2017						C)
Overall ³	12.2%	5.0%	3.1%	8.6%	7.2%	7.5%
Stabilized ⁴	4.4%	5.0%	3.1%	4.3%	4.9%	4.8%
Vacancy September 2016						
Overall ³	4.5%	7.3%	0.2%	4.3%	7.8%	7.0%
Stabilized ⁴	2.5%	7.3%	0.2%	3.2%	2.9%	2.9%
Absorption Trends						
# of Market Rate Units Absorbed Over the Past 12 Months	357	32	(37)	352	1,226	1,578
For Comparison						
12-Month Period Ending 9/30/2016	250	108	31	389	1,782	2,171
Supply Projections						
# of Market Rate Units Under Construction & Available Plus Planned for Delivery in the Next 36 Months ⁵	150	0	0	150	5,017	5,167
For Comparison						
at 9/30/2016	595	0	0	595	4,623	5,218

¹ Includes walk-up and elevator-served apartments of one to four stories.

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006.

² Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.

³ Includes actively marketing projects.

⁴ Excludes actively marketing projects.

⁵ See list of under construction and planned projects on tables 3.14 through 3.15 and tables 3.18 through 3.19. Under construction includes unleased units in projects not yet stabilized. Accounts for attrition.

TABLE 3.8 KEY MARKET INDICATORS FOR CLASS A RENTAL HIGH-RISE APARTMENTS

Summary | Washington Metropolitan Area Third Quarter 2017

	Tima Quare				
		GEOGRAPHIC AREA			
MARKET INDICATOR	NORTHERN VIRGINIA	SUBURBAN MARYLAND	THE DISTRICT	WASHINGTON METRO AREA TOTAL/AVERAGE	
Number of Units Surveyed	30,254	11,986	27,325	69,565	
Rent Levels (Avg. of All Unit Sizes)					
Face Rent	\$2,321	\$2,225	\$2,622	\$2,423	
Concession as a % of Face Rents	1.4%	1.7%	1.4%	1.5%	
Effective Rent	\$2,288	\$2,188	\$2,585	\$2,387	
Effective Rent per Square Foot	\$2.60	\$2.42	\$3.14	\$2.78	
Annual Effective Rent Increase					
- Since 1998	4.0%	2.6%	2.3%	3.1%	
- Since 9/30/12	0.0%	-0.7%	0.9%	0.2%	
- Since 9/30/16 ¹	-0.1%	1.3%	-1.3%	-0.3%	
Vacancy September 2017					
Overall ²	6.7%	9.1%	12.7%	9.5%	
Stabilized ³	3.5%	4.2%	4.7%	4.1%	
Vacancy September 2016					
Overall ²	9.0%	9.6%	8.2%	8.8%	
Stabilized ³	3.8%	4.4%	4.1%	4.0%	
Absorption Trends					
# of Market Rate Units Absorbed Over the Past 12 Months	3,277	1,082	3,666	8,025	
For Comparison					
12-Month Period Ending 9/30/2016	3,269	1,020	2,496	6,785	
Supply Projections					
# of Market Rate Units Under Construction and Available	9,451	3,721	13,973	27,145	
Plus Planned for Delivery in the Next 36 Months ⁴	7,471	3,721	13,773	27,143	
For Comparison					
at 9/30/2016	8,891	3,568	12,662	25,121	

 $^{^{1}}$ Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006. Phone: (202) 778-3100. Last Update: September 2017.

² Includes actively marketing projects.

 $^{^{^{3}}}$ Excludes actively marketing projects.

⁴ See list of under construction and planned projects on tables 3.14 through 3.15, tables 3.18 through 3.19, and tables 3.22 through 3.23. Under construction includes unleased units in projects not yet stabilized. Accounts for attrition.

TABLE 3.9 KEY MARKET INDICATORS FOR CLASS A RENTAL HIGH-RISE APARTMENTS

Selected Submarkets | Northern Virginia

Third Quarter 2017

			C			
			SUBMARKET			
MARKET INDICATOR	ALEXANDRIA	ROSSLYN/ BALLSTON CORRIDOR OF ARLINGTON	CRYSTAL CITY/ PENTAGON CITY	SOUTH ARLINGTON	N & W FAIRFAX 1	NORTHERN VIRGINIA TOTAL/AVERAGE
Number of Units Surveyed	6,212	9,048	5,083	2,197	7,714	30,254
Rent Levels (Avg. of All Unit Sizes)						
Face Rent	\$2,140	\$2,485	\$2,382	\$2,066	\$2,306	\$2,321
Concession as a % of Face Rents	1.6%	0.6%	2.5%	0.9%	1.7%	1.4%
Effective Rent	\$2,106	\$2,470	\$2,322	\$2,047	\$2,266	\$2,288
Effective Rent per Square Foot	\$2.39	\$2.92	\$2.63	\$2.23	\$2.48	\$2.60
Annual Effective Rent Increase						
- Since 1998	4.3%	4.1%	3.3%	N/A	N/A	4.0%
- Since 9/30/12	0.4%	0.6%	1.0%	-0.6%	-1.4%	0.0%
- Since 9/30/16 ²	-1.2%	0.9%	2.5%	0.1%	-2.1%	-0.1%
Vacancy September 2017						
Overall ³	6.3%	8.4%	5.7%	3.0%	6.8%	6.7%
Stabilized ⁴	4.5%	3.0%	4.8%	3.0%	2.7%	3.5%
Vacancy September 2016						
Overall ³	12.5%	4.5%	5.8%	8.5%	13.7%	9.0%
Stabilized ⁴	3.0%	4.1%	3.3%	3.3%	4.4%	3.8%
Absorption Trends						
# of Market Rate Units Absorbed Over the Past 12 Months	430	590	744	25	1,488	3,277
For Comparison						
12-Month Period Ending 9/30/2016	1,111	224	358	153	1,423	3,269
Supply Projections						
# of Market Rate Units Under Construction & Available Plus Planned for Delivery in the Next 36 Months ⁵	1,554	2,143	1,282	824	3,648	9,451
For Comparison						
at 9/30/2016	1,504	1,561	1,663	177	3,985	8,891

¹ Includes cities of Fairfax and Falls Church.

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006.

 $^{^2}$ Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.

³ Includes actively marketing projects.

⁴ Excludes actively marketing projects.

⁵ See list of under construction and planned projects on tables 3.14 through 3.15. Under construction includes unleased units in projects not yet stabilized. Accounts for attrition.

TABLE 3.10 KEY MARKET INDICATORS FOR CLASS A RENTAL HIGH-RISE APARTMENTS

Selected Submarkets | Suburban Maryland

Third Quarter 2017

		SUBMARKET		
MARKET INDICATOR	BETHESDA	N. BETHESDA/ ROCKVILLE	SILVER SPRING/WHEATON	SUBURBAN MARYLAND TOTAL/AVERAGE
Number of Units Surveyed	3,106	4,821	4,059	11,986
Rent Levels (Avg. of All Unit Sizes)				
Face Rent	\$2,736	\$2,093	\$1,991	\$2,225
Concession as a % of Face Rents	3.1%	1.2%	0.9%	1.7%
Effective Rent	\$2,652	\$2,068	\$1,974	\$2,188
Effective Rent per Square Foot	\$2.90	\$2.20	\$2.30	\$2.42
Annual Effective Rent Increase				
- Since 1998 ¹	3.5%	2.5%	2.0%	2.6%
- Since 9/30/12	0.3%	-1.2%	-0.8%	-0.7%
- Since 9/30/16 ²	1.5%	2.6%	-0.9%	1.3%
Vacancy September 2017				
Overall ³	7.4%	4.5%	15.9%	9.1%
Stabilized ⁴	4.0%	4.5%	4.1%	4.2%
Vacancy September 2016				
Overall ³	14.6%	11.1%	4.0%	9.6%
Stabilized ⁴	4.9%	4.5%	4.0%	4.4%
Absorption Trends				
# of Market Rate Units Absorbed Over the Past 12 Months	346	470	266	1,082
For Comparison				
12-Month Period Ending 9/30/2016	180	807	33	1,020
Supply Projections				
# of Market Rate Units Under Construction $\&$ Available Plus Planned for Delivery in the Next 36 Months $^{\rm 5}$	784	1,312	1,626	3,721
For Comparison				
at 9/30/2016	712	1,571	1,286	3,568

¹ Average annual rent increase in Silver Spring/Wheaton is from 2004.

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006.

Phone: (202) 778-3100. Last Update: September 2017.

² Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.

³ Includes actively marketing projects.

⁴ Excludes actively marketing projects.

⁵ See list of under construction and planned projects on tables 3.18 and 3.19. Accounts for attrition.

TABLE 3.11 KEY MARKET INDICATORS FOR CLASS A RENTAL HIGH-RISE APARTMENTS

Selected Submarkets | The District Third Quarter 2017

			Third Quart	er 2017				
				SUBMARKET				
MARKET INDICATOR	UPPER NW	CENTRAL	COLUMBIA HEIGHTS/SHAW	NOMA/ H STREET	CAPITOL HILL/ RIVERFRONT/SW	NORTHEAST	UPPER GA	THE DISTRICT TOTAL/AVERAGE
Number of Units Surveyed	2,095	7,427	4,003	6,237	4,713	2,090	760	27,325
Rent Levels (Avg. of All Unit Sizes)								
Face Rent	\$2,929	\$2,886	\$2,753	\$2,443	\$2,477	\$2,163	\$2,154	\$2,622
Concession as a % of Face Rents	0.4%	1.2%	1.9%	1.2%	2.7%	0.6%	0.2%	1.4%
Effective Rent	\$2,917	\$2,852	\$2,700	\$2,413	\$2,410	\$2,149	\$2,150	\$2,585
Effective Rent per Square Foot	\$3.37	\$3.46	\$3.61	\$3.04	\$3.02	\$2.74	\$2.77	\$3.14
Annual Effective Rent Increase								
- Since 1998	4.3%	1.7%	N/A	N/A	N/A	N/A	N/A	2.3%
- Since 9/30/12	0.8%	0.5%	2.2%	-0.2%	1.6%	1.4%	0.2%	0.9%
- Since 9/30/16 ¹	-1.7%	-2.4%	-4.1%	-1.2%	3.2%	4.4%	-0.8%	-1.3%
Vacancy September 2017								
Overall ²	8.3%	5.1%	14.5%	17.0%	18.0%	19.8%	3.3%	12.7%
Stabilized ³	3.6%	4.5%	6.0%	4.4%	4.5%	5.6%	3.3%	4.7%
Vacancy September 2016								
Overall ²	18.7%	7.5%	4.9%	5.0%	12.1%	7.5%	9.1%	8.2%
Stabilized ³	6.2%	3.7%	3.6%	5.1%	4.7%	1.6%	5.0%	4.1%
Absorption Trends ⁴								
# of Market Rate Units Absorbed Over the Past 12 Months	248	344	358	935	1,655	74	52	3,666
For Comparison ⁴								
12-Month Period Ending 9/30/2016	381	188	460	173	644	534	116	2,496
Supply Projections								
# of Market Rate Units Under Construction & Available Plus Planned for Delivery in the Next 36 Months ⁵	460	939	1,869	3,987	5,609	1,052	0	13,973
For Comparison ⁴								
at 9/30/2016	260	1,316	1,310	3,942	4,801	871	51	12,662

¹ Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006.

Phone: (202) 778-3100. Last Update: September 2017.

² Includes actively marketing projects.

³ Excludes actively marketing projects.

⁴ Substate total includes some projects that do not fall into the identified submarkets.

⁵ See list of under construction and planned projects on tables 3.22 through 3.23. Accounts for attrition. Substate total includes some projects that do not fall into the identified submarkets.

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TABLE 3.12 ABSORPTION SUMMARY | ACTIVELY LEASING CLASS A APARTMENT PROJECTS WASHINGTON METROPOLITAN AREA

				Third Q	uarter 2017						
COMP.#	PROJECT NAME/LOCATION	TOTAL UNITS ¹	DATE LEASING BEGAN	DATE OF DELIVERY	UNITS ABSORBED	MONTH Q4 '16	LY ABSORPTION Q1*17	N PACE PER QU Q2 '17	ARTER Q3 '17	OVERALL LEASE- UP PACE SINCE MARKETING BEGAN	CURRENT CONCESS. AS A 9 OF FACE RENT
	LOW-RISE APARTMENTS						1				
1.	Modera Westside Laurel, Maryland	456	2/16	4/16	364	20	11	23	10	18	7%
2.	Urban Green Urbana, Maryland	354	8/16	8/16	218	34	5	12	13	17	5%
3.	Bainbridge Jefferson Place Frederick, Maryland	228	1/17	5/17	214	N/A	 3	 3	19	27	0%
4.	Evolution at Towne Center Laurel, Maryland	320	3/17	5/17	166	N/A	N/A	40	16	28	N/A
5.	Abberly Waterstone Stafford, Virginia	288	4/17	7/17	56	N/A	N/A	3	19	11	5%
6.	700 Constitution Washington, DC	139	4/17	5/17	62	N/A	N/A	13	12	12	0%
7.	The Remy - Phase I New Carrollton, Maryland	278	8/17	9/17	27	N/A	N/A	N/A	27	27	N/A
	MID-RISE APARTMENTS										10
8.	Verde at Greenbelt Station Greenbelt, Maryland	302	4/16	4/16	277	13	24	12	35	16	8%
9.	Hanover Shady Grove Rockville, Maryland	316	5/16	5/16	292	19	18	22	4	18	8%
10.	Monument Village College Park, Maryland	235	5/16	5/16	142	8	6	17	6	9	6%
11.	Ascend Apollo Largo, Maryland	500	6/16	10/16	308	13	21	20	11	21	N/A
12.	Solaire Bethesda Bethesda, Maryland	118	7/16	9/16	103	8	8	3	14	7	8%
13.	Haden Tysons Corner, Virginia	340	7/16	8/16	249	3	21	23	3	18	N/A
14.	Apollo H Street Washington, DC	398	9/16	11/16	219	10	23	24	16	18	2%
15.	Abberly at Southpoint Fredericksburg Virginia	280	9/16	12/16	180	3	25	17	15	15	2%
16.	The Majestic at Watkins Mill Gaithersburg, Maryland	243	10/16	10/16	170	29	2	3	3	15	0%
17.	Belvoir Square Fort Belvoir, Virginia	248	11/16	3/17	106	1	5	16	13	11	8%
18.	Windmill Parc - Phase II Dulles Town Center, Virginia	112	1/17	3/17	88	N/A	2	3	3	11	N/A

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TABLE 3.12 ABSORPTION SUMMARY | ACTIVELY LEASING CLASS A APARTMENT PROJECTS WASHINGTON METROPOLITAN AREA

				Third Q	uarter 2017						
COMP.#	PROJECT NAME/LOCATION	TOTAL UNITS ¹	DATE LEASING BEGAN	DATE OF DELIVERY	UNITS ABSORBED	MONTHI Q4 '16	LY ABSORPTION Q1 '17	N PACE PER QUA Q2 '17	ARTER Q3 '17	OVERALL LEASE- UP PACE SINCE MARKETING BEGAN	CURRENT CONCESS. AS A % OF FACE RENT
	MID-RISE APARTMENTS (CONTINUED)						7				
19.	Camden Shady Grove Rockville, Maryland	399	2/17	2/17	151	N/A	28	14	27	22	N/A
20.	South Cathedral Mansions Washington, DC	136	2/17	2/17	54	N/A	3	14	3	8	N/A
21.	Highgate at the Mile Tysons Corner, Virginia	329	4/17	5/17	198	N/A	N/A	41	39	40	8%
22.	Reed Row Washington, DC	118	5/17	6/17	49	N/A	N/A	22	9	12	8%
23.	The Modern at Art Place Washington, DC	379	5/17	8/17	60	N/A	N/A	50	3	15	0%
24.	880 P Washington, DC	138	5/17	8/17	30	N/A	N/A	26	1	8	0%
25.	The Daley Rockville, Maryland	256	5/17	5/17	40	N/A	N/A	18	7	13	N/A
26.	The Edison Washington, DC	149	5/17	8/17	33	N/A	N/A	2	11	8	0%
27.	Ten at Clarendon Arlington, Virginia	137	5/17	7/17	39	N/A	N/A	2	13	10	0%
28.	The Loren Falls Church, Virginia	165	6/17	6/17	31	N/A	N/A	N/A	10	10	0%
29.	Aperture at Reston Station Reston, Virginia	371	7/17	8/17	7	N/A	N/A	N/A	4	4	N/A
30.	13th U Washington, DC	117	8/17	8/17	31	N/A	N/A	N/A	31	31	0%
31.	AVA Wheaton Wheaton, Maryland	319	8/17	8/17	36	N/A	N/A	N/A	36	36	N/A
32.	Central Silver Spring, Maryland	212	8/17	8/17	39	N/A	N/A	N/A	39	39	N/A
33.	Brookland Press Washington, DC	284	8/17	11/17	18	N/A	N/A	N/A	18	18	N/A
	HIGH-RISE APARTMENTS										
34.	BLVD Reston Station Reston, Virginia	360	11/15	3/16	300	17	16	29	(5)	14	0%
35.	The Bartlett Arlington, Virginia	699	3/16	6/16	669	3	35	31	(0)	37	8%
36.	7770 Norfolk Avenue	200	3/16	3/16	177	9	7	5	(1)	10	N/A

⁶⁴ Delta Associates | Mid-Atlantic Class A Apartment Market Report | Third Quarter 2017 | Not for Redistribution

Bethesda, Maryland

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TABLE 3.12 ABSORPTION SUMMARY | ACTIVELY LEASING CLASS A APARTMENT PROJECTS WASHINGTON METROPOLITAN AREA

				Third Q	uarter 2017						
COMP.#	PROJECT NAME/LOCATION	TOTAL UNITS ¹	DATE LEASING BEGAN	DATE OF DELIVERY	UNITS ABSORBED	MONTHI Q4 '16	LY ABSORPTION Q1 '17	I PACE PER QU Q2 '17	ARTER Q3 '17	OVERALL LEASE- UP PACE SINCE MARKETING BEGAN	CURRENT CONCESS. AS A % OF FACE RENT
	HIGH-RISE APARTMENTS (CONTINUED)						7				
37.	Flats 8300 Bethesda, Maryland	287	3/16	5/16	246	6	7	13	15	14	8%
38.	Parc Meridian Alexandria, Virginia	472	4/16	5/16	453	38	24	26	10	25	1%
39.	Dock 79 Washington, DC	280	5/16	9/16	271	12	20	16	10	17	0%
40.	5333 Connecticut Washington, DC	242	5/16	6/16	221			20	15	14	0%
41.	Latitude Arlington, Virginia	251	7/16	9/16	143			12	13	10	8%
42.	The Hepburn Washington, DC	195	7/16	8/16	157	9	6	14	10	11	4%
43.	Element 28 Bethesda, Maryland	88	8/16	1/17	59	3	2	8	6	5	10%
44.	m. Flats Crystal City Arlington, Virginia	182	8/16	10/16	148	8	14	10	16	11	N/A
45.	e-lofts Alexandria Alexandria, Virginia	200	9/16	11/16	106	1	10	3	3	9	8%
46.	Ore 82 Washington, DC	227	10/16	11/16	224	32	22	11	21	20	3%
47.	Anthology Washington, DC	307	10/16	11/16	260	21	20	27	25	24	0%
48.	Berkshire 15 Washington, DC	96	11/16	11/16	78	17	7	9	4	8	8%
49.	One Hill South Washington, DC	382	1/17	3/17	229	N/A	43	34	14	29	N/A
50.	Union on Queen Arlington, Virginia	113	1/17	1/17	89	N/A	44	1	(0)	11	2%
51.	F1rst Residences Washington, DC	275	2/17	4/17	170	N/A	6	37	18	24	8%
52.	Camden NoMa - Phase II Washington, DC	405	2/17	2/17	218	N/A	28	29	34	31	3%
53.	Central Place Arlington, Virginia	377	2/17	1/17	184	N/A	37	49	(0)	26	0%
54.	The Pearl Silver Spring, Maryland	276	2/17	2/17	95	N/A	2	20	12	14	0%
55.	Eliot on 4th Washington, DC	365	3/17	5/17	164	N/A	N/A	28	27	27	8%

⁶⁵ Delta Associates | Mid-Atlantic Class A Apartment Market Report | Third Quarter 2017 | Not for Redistribution

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TABLE 3.12 ABSORPTION SUMMARY | ACTIVELY LEASING CLASS A APARTMENT PROJECTS WASHINGTON METROPOLITAN AREA Third Quarter 2017

COMP.#	PROJECT NAME/LOCATION	TOTAL UNITS ¹	DATE LEASING BEGAN	DATE OF DELIVERY	UNITS ABSORBED	MONTH Q4 '16	ILY ABSORPTION Q1 17	N PACE PER QUA Q2 '17	RTER Q3 '17	OVERALL LEASE- UP PACE SINCE MARKETING BEGAN	CURRENT CONCESS. AS A % OF FACE RENT
	HIGH-RISE APARTMENTS (CONTINUED)										
56.	The Vintage Washington, DC	85	4/17	4/17	56	N/A	N/A	15	9	11	8%
57.	AVA NoMa Washington, DC	438	4/17	5/17	219	N/A	N/A	60	33	44	0%
58.	Incanto Washington, DC	101	5/17	9/17	16	N/A	N/A	2	5	4	N/A
59.	The Channel Washington, DC	348	5/17	10/17	48	N/A	N/A	2	15	12	N/A
60.	Core Silver Spring, Maryland	240	5/17	5/17	101	N/A	N/A	77	8	25	N/A
61.	455 Eye Washington, DC	174	5/17	6/17	153	N/A	N/A	76	26	38	0%
62.	Insignia on M Washington, DC	324	5/17	5/17	152	N/A	N/A	47	35	38	12%
63.	The Henri Rockville, Maryland	225	5/17	8/17	101	N/A	N/A	41	20	25	N/A
64.	The Rixey Arlington, Virginia	256	8/17	9/17	55	N/A	N/A	N/A	55	55	N/A
	at Third Quarter 2017	17,134			9,619					17	3%
	at Third Quarter 2016	18,522			10,029					17	3%
	at Third Quarter 2015	18,639			11,548					16	4%
	at Third Quarter 2014	18,987			9,886					15	4%
	at Third Quarter 2013	13,857			7,361					16	8%
	at Third Quarter 2012	8,448			3,343					18	8%
	at Third Quarter 2011	5,045			3,248					17	7%

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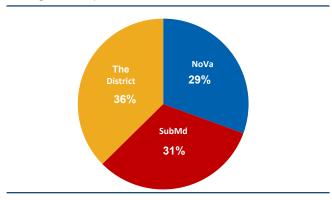
TABLE 3.12

ABSORPTION SUMMARY | ACTIVELY LEASING CLASS A APARTMENT PROJECTS WASHINGTON METROPOLITAN AREA

Third Quarter 2017

SUBSTATE SHARE OF ACTIVELY MARKETING **CLASS A APARTMENT UNITS**

Washington Metro | Third Quarter 2017



¹ Includes only market-rate units.

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006. Phone: (202) 778-3100. Last update: September 2017.

UNIT VOLUME AND OVERALL LEASE-UP PACE OF ACTIVELY MARKETING CLASS A APARTMENT PROJECTS

Washington Metro | Third Quarter 2011 - 2017



² Projects began leasing after this publication had gone to press.

 $^{^{\}scriptscriptstyle 3}$ Property did not participate in our suvey.

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TABLE 3.13 ABSORPTION SUMMARY | CLASS A APARTMENT PROJECTS WASHINGTON METROPOLITAN AREA Third Quarter 2014 Through Third Quarter 2017 DATE MARKETING COMP.# PROJECT NAME/LOCATION TYPE OF PROJECT DATE DELIVERED DATE STABILIZED 1. The Woodley High-Rise 212 7/14 7/14 2/16 Washington, DC 2. 2 M Street High-Rise 297 7/14 8/14 8/15 Washington, DC 3. Elevation at Washington Gateway High-Rise 367 7/14 11/15 Washington, DC Arcadia Run - Phase II 11/15 4. Low-Rise 160 7/14 Manassas, Virginia 5. High-Rise 254 7/14 8/14 Arlington, Virginia 6. Modera Tempo Mid-Rise 492 7/14 10/14 Alexandria, Virginia 7. Meridian at Mt. Vernon Triangle - Phase II High-Rise 395 8/14 10/14 Washington, DC 8. The Shelby Mid-Rise 210 8/14 9/14 11/15 Alexandria, Virginia 9. Takoma Central Mid-Rise 150 8/14 2/15 11/15 Washington, DC Windmill Parc 11/15 10. Mid-Rise 214 8/14 1/15 Dulles, Virginia The Swift 11. Mid-Rise 200 8/14 9/14 2/16 Washington, DC 12. The Drake High-Rise 201 9/14 9/14 5/15 Washington, DC 13. Dorchester West Mid-Rise 117 9/14 9/14 8/15 Washington, DC 14. Jefferson at Market Place High-Rise 227 9/14 9/14 11/15 Washington, DC Avalon Potomac Yard (fmly. The Alric) Mid-Rise 15. 323 9/14 9/14 2/16 Alexandria, Virginia Parc Riverside 16. High-Rise 287 9/14 12/14 2/16 Washington, DC 17. The Esplanade Mid-Rise 262 9/14 1/15 5/16 National Harbor, Maryland 18. 2001 Clarendon Blvd. Mid-Rise 154 10/14 10/14 5/15 Arlington, Virginia 19. Orchard Bridge Low-Rise 368 10/14 10/14 8/15 Manassas, Virginia 20. High-Rise 390 10/14 5/15 5/17 Tysons Corner, Virginia Cathedral Commons Mid-Rise 11/14 11/15 21. 123 1/15 Washington, DC

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TABLE 3.13 ABSORPTION SUMMARY | CLASS A APARTMENT PROJECTS WASHINGTON METROPOLITAN AREA Third Quarter 2014 Through Third Quarter 2017 DATE MARKETING COMP.# PROJECT NAME/LOCATION TYPE OF PROJECT DATE DELIVERED DATE STABILIZED 22. East of Market Low-Rise 160 11/14 9/15 2/16 Frederick, Maryland 23. The Maxwell Mid-Rise 163 12/14 1/15 2/16 Arlington, Virginia 24. C Street Flats Mid-Rise 142 12/14 2/16 Laurel, Maryland 25. The Links at Gleneagles 12/14 6/16 Low-Rise 213 Waldorf, Maryland 450 K (fmly. m. Flats Mount Vernon Triangle) 26. High-Rise 233 12/14 1/15 Washington, DC 27. Lex at Waterfront Station High-Rise 211 12/14 12/14 Washington, DC 28. The Bradley Braddock Road Station High-Rise 165 1/15 3/15 Alexandria, Virginia 29. The Colonel Mid-Rise 1/15 8/15 64 2/15 Washington, DC 30. 7001 Arlington at Bethesda High-Rise 119 1/15 4/15 2/16 Bethesda, Maryland 31. Station 650 Mid-Rise 193 1/15 2/15 2/16 Alexandria, Virginia 32. Avalon Falls Church Low-Rise 330 1/15 2/15 8/16 Falls Church, Virginia Kensington Place - Phase II 33. Low-Rise 183 2/15 3/15 11/15 Woodbridge, Virginia Modera Mosaic Mid-Rise 34. 217 2/15 8/15 2/16 Merrifield, Virginia 35. The Terano Mid-Rise 182 2/15 5/15 8/16 Rockville, Maryland Mallory Square - Ph. I 315 2/15 36. Low-Rise 3/15 2/17 Rockville, Maryland 37. The Perry at Park Potomac Apartments Mid-Rise 297 3/15 7/15 2/17 Potomac, Maryland 38. Station House High-Rise 3/15 3/15 8/16 349 Washington, DC 39. Verde Pointe High-Rise 187 3/15 6/15 11/16 Arlington, Virginia 40. Aspire Apollo Low-Rise 417 3/15 6/15 5/17 Camp Springs, Maryland 41. Upton at Rockville High-Rise 223 5/15 11/16 4/15 Rockville, Maryland 42. The Frasier Mid-Rise 249 4/15 4/15 11/16 Alexandria, Virginia

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TABLE 3.13 ABSORPTION SUMMARY | CLASS A APARTMENT PROJECTS **WASHINGTON METROPOLITAN AREA** Third Quarter 2014 Through Third Quarter 2017 DATE MARKETING COMP.# PROJECT NAME/LOCATION TYPE OF PROJECT DATE DELIVERED DATE STABILIZED 43. Flats at Bethesda Avenue High-Rise 124 4/15 6/15 5/17 Bethesda, Maryland 44. The Sutton Low-Rise 420 4/15 6/15 5/17 Woodbridge, Virginia 45. Tapestry Largo Station Mid-Rise 318 4/15 5/17 Upper Marlboro, Maryland The Acadia at Metropolitan Park 5/17 46. High-Rise 411 4/15 Arlington, Virginia 47. The Parker at Huntington Metro Mid-Rise 306 5/15 9/15 Alexandria, Virginia Pallas Apartments at Pike & Rose 48. High-Rise 287 5/15 7/15 North Bethesda, Maryland 49. Gables Upper Rock - Phase II Mid-Rise 241 5/15 7/15 North Rockville, Maryland 50. Modera Avenir Place Phase II Mid-Rise 353 5/15 7/15 11/16 Merrifield, Virginia 51. Fort Totten Square - Phase I Mid-Rise 345 5/15 6/15 2/17 Washington, DC 52. Pike 3400 2/17 Mid-Rise 256 5/15 7/15 Arlington, Virginia Halstead Square - The Lanes 53. Mid-Rise 166 6/15 7/15 11/16 Vienna, Virginia 54. 2255 Wisconsin Avenue Mid-Rise 81 6/15 8/15 2/16 Washington, DC 55. Alta Liberty Mill Mid-Rise 278 6/15 7/15 5/17 Germantown, Maryland 56. 1600 Pennsylvania Avenue Mid-Rise 69 7/15 7/15 2/16 Washington, DC Mid-Rise 417 57. Bainbridge Shady Grove 7/15 8/15 8/16 Rockville, Maryland 58. Notch 8 Mid-Rise 241 7/15 8/15 11/16 Alexandria, Virginia 59. The Shay Mid-Rise 227 8/15 10/15 2/17 Washington, DC 60. Atlantic Plumbing High-Rise 281 9/15 9/15 11/16 Washington, DC 61. Station Square at Cosner's Corner Ph. II Low-Rise 120 9/15 12/15 8/16 Fredericksburg, Virginia 62. High-Rise 384 10/15 5/17 Nouvelle 9/15 Tysons Corner, Virginia The Hecht Warehouse Mid-Rise 10/15 12/15 63. 331 8/17 Washington, DC

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TABLE 3.13 ABSORPTION SUMMARY | CLASS A APARTMENT PROJECTS **WASHINGTON METROPOLITAN AREA** Third Quarter 2014 Through Third Quarter 2017 DATE MARKETING COMP.# PROJECT NAME/LOCATION TYPE OF PROJECT DATE DELIVERED DATE STABILIZED 64. Galvan Mid-Rise 302 10/15 12/15 8/17 Rockville, Maryland 65. West Broad High-Rise 267 11/15 3/16 5/17 Falls Church, Virginia 66. The Corcoran at 14th Mid-Rise 32 11/15 2/16 Washington, DC 67. The Flats at Neabsco Mid-Rise 12/15 2/17 186 Woodbridge, Virginia 68. Modera Fairfax Ridge Low-Rise 178 12/15 12/15 Fairfax, Virginia Park Van Ness Mid-Rise 69. 243 1/16 4/16 Washington, DC 70. Park Chelsea at the Collective High-Rise 434 1/16 6/16 Washington, DC 71. Tenley View Mid-Rise 60 1/16 3/16 11/16 Washington, DC 72. Arris High-Rise 256 2/16 3/16 5/17 Washington, DC 73. Silver Collection at Cosner's Corner 5/17 Low-Rise 270 3/16 6/16 Fredericksburg, Virginia Willow & Maple Low-Rise 74. 89 4/16 4/16 5/17 Washington, DC 75. The Elms at Signal Hill Station Low-Rise 296 4/16 6/16 8/17 Manassas Park, Virginia 76. Palisades at Manassas Park - Ph. I Low-Rise 168 5/16 9/16 8/17 Manassas Park, Virginia 77. Elms at Arcola Low-Rise 224 5/16 5/16 5/17 Arcola, Virginia Mid-Rise 78. Lincoln at Discovery Square 342 7/16 8/16 5/17 Herndon, Virginia 79. Avalon Laurel Low-Rise 311 7/16 8/16 8/17 Laurel, Maryland 80. Lincoln at Tinner Hill Mid-Rise 224 8/16 8/17 7/16 Falls Church, Virginia 81. High-Rise 400 8/16 8/16 8/17 Tysons Corner, Virginia 82. The Aspen DC High-Rise 133 9/16 8/16 8/17 Washington, DC 83. Elysium Fourteen High-Rise 56 10/16 8/17 9/16 Washington, DC The Bixby - The Lofts at Captiol Quarter 10/16 12/16 84. Low-Rise 156 8/17 Washington, DC

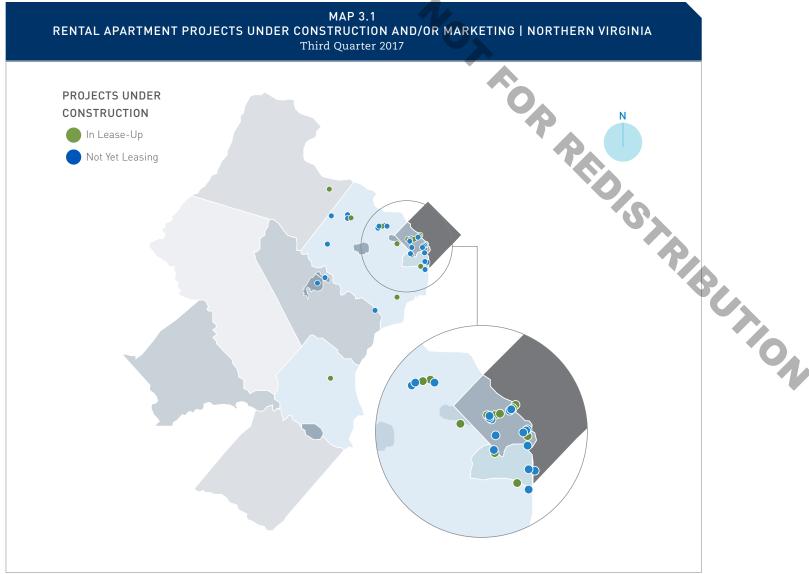
		TABLE 3.13 TON SUMMARY CLASS A APART WASHINGTON METROPOLITAN warter 2014 Through Third	AREA)		
COMP.#	PROJECT NAME/LOCATION	TYPE OF PROJECT	TOTAL UNITS	DATE MARKETING BEGAN	DATE DELIVERED	DATE STABILIZE
85.	Palisades at Manassas Park - Ph. II Manassas Park, Virginia	Low-Rise	100	3/17	6/17	8/17
	Overall To	otal/Average (1996-Present):	124,950			
	Those That Began Mark	eting in 2003: Total/Average:	4,750			
	Those That Began Mark	eting in 2004: Total/Average:	3,418		7.4	
	Those That Began Mark	eting in 2005: Total/Average:	2,485		Η.	
	Those That Began Mark	eting in 2006: Total/Average:	5,243			
		eting in 2007: Total/Average:	8,226			
		eting in 2008: Total/Average:	8,592			
		eting in 2009: Total/Average:	5,649			4
		eting in 2010: Total/Average:	4,687			(3.4
		eting in 2011: Total/Average:	3,424			
		eting in 2012: Total/Average:	8,786			
		eting in 2013: Total/Average:	11,090			
		eting in 2014: Total/Average:	12,500			
		eting in 2015: Total/Average:	10,111			
		eting in 2016: Total/Average:	3,662			
	Those That Began Mark	eting in 2017: Total/Average:	100			

MARKETING STARTS AND OVERALL MONTHLY LEASE-UP PACE FOR STABILIZED PROJECTS

Washington Metro Area | 2003-2017



¹ Includes months of pre-leasing activity.



Source: Delta Associates Last update: September 2017.

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TABLE 3.14 RENTAL APARTMENT PROJECTS UNDER CONSTRUCTION AND/OR MARKETING Northern Virginia Third Quarter 2017

			Third Quarter 2017						
Project Name/Location	Project Type	Location	Sponsor(s)	# of Mkt. Rate Units	# of Units Absorbed	# of Available Units	Date Pre-Lsg. Begins	Inital Occup. Date	Date Constr. Complete
City of Alexandria)			
1 The Thornton	Mid-Rise	Alexandria	Foulger-Pratt	369	0	369	1/2018	3/2018	6/2018
2 The Dalton	High-Rise	Braddock Metro	Trammell Crow Company	270	0	270	Q4 2017	Q4 2017	1/2018
3 Parc Meridian	High-Rise	Eisenhower	Paradigm	472	453	19	4/2016	Q2 2016	Q3 2016
4 Gables Old Town North	Mid-Rise	Old Town North	Gables Residential	223	0	223	Q3 2018	Q3 2018	Q4 2018
5 e-lofts Alexandria	High-Rise	West Alexandria	Novus Residences	200	106	94	9/2016	11/2016	12/2016
6 The Gateway Alexandria	Mid-Rise	West Alexandria	Abramson Properties	278	0	278	Q3 2019	Q4 2019	Q4 2019
Arlington County									
7 672 Flats	Mid-Rise	Ballston	Penrose Group	164	0	164	12/2017	2/2018	3/2018
8 750 N. Glebe Rd	High-Rise	Ballston	B.F. Saul	491	0	491	N/A	Q1 2020	Q1 2020
9 Ballston Quarter	High-Rise	Ballston	Forest City Washington	406	0	406	Q3 2018	Q4 2018	Q4 2018
10 The Rixey	High-Rise	Ballston	The Shooshan Co.	256	55	201	8/2017	9/2017	9/2017
11 Cherry Hill Apartments	Low-Rise	Cherrydale	Dittmar	93	0	93	Q1 2019	Q2 2019	Q2 2019
12 Ten at Clarendon	Mid-Rise	Clarendon	Clark Realty Capital	135	59	76	5/2017	7/2017	7/2017
13 Columbia Pike Village Center	Mid-Rise	Columbia Pike	Orr Partners	365	0	365	Q1 2019	Q2 2019	Q3 2019
14 The Trove	Mid-Rise	Columbia Pike	Washington REIT	401	0	401	Q3 2019	Q3 2019	Q3 2020
15 m. Flats Crystal City	High-Rise	Crystal City	Kettler	182	148	34	8/2016	10/2016	12/2016
16 The Altaire - North	High-Rise	Crystal City	LCOR	150	0	150	Q2 2018	Q3 2018	Q4 2018
17 The Altaire - South	High-Rise	Crystal City	LCOR	286	0	286	Q2 2018	Q3 2018	Q4 2018
18 Gables Pointe 14	High-Rise	Fort Myer	Gables Residential	331	0	331	Q3 2018	Q4 2018	Q1 2019
19 The Bartlett	High-Rise	Pentagon City	JBG Smith	699	669	30	5/2016	6/2016	Q4 2016
20 VIA Pentagon City	High-Rise	Pentagon City	Kimco Redevelopment Group	440	0	440	Q1 2019	Q1 2019	4/2019
21 National Gateway - Phase II	High-Rise	Potomac Yard	Property Reserve, Inc	342	0	342	Q1 2018	Q2 2018	Q2 2018
22 Central Place	High-Rise	Rosslyn	JBG Smith	377	184	193	2/2017	1/2017	Q2 2017
23 Union on Queen	High-Rise	Rosslyn	Bozzuto	113	89	24	1/2017	1/2017	1/2017
24 Latitude	High-Rise	Virginia Square	Penrose Group	251	143	108	7/2016	9/2016	12/2016
airfax County ¹									
21 The Preserve at Westfields	Mid-Rise	Chantilly	Elm Street Development	572	0	572	Q2 2019	Q3 2019	Q3 2019
22 Belvoir Square	Mid-Rise	Fort Belvoir	Chesapeake Realty Partners	248	106	142	11/2016	3/2017	5/2017
23 Station on Silver	Mid-Rise	Herndon	Woodfield Investments	342	0	342	Q4 2017	Q4 2017	Q3 2018
24 Aperture at Reston Station	Mid-Rise	Reston	Bozzuto	371	7	364	7/2017	Q3 2017	Q3 2017
25 BLVD Reston Station	High-Rise	Reston	Comstock	360	300	60	11/2015	3/2016	4/2016
26 VY	Mid-Rise	Reston	JBG Smith	385	0	385	10/2017	11/2017	Q1 2018
27 The Signature	High-Rise	Reston Town Center	Boston Properties	427	0	427	Q4 2017	Q1 2018	Q3 2018
28 Haden	Mid-Rise	Tysons Corner	JLB Partners	340	249	91	7/2016	8/2016	12/2016
29 Highgate at the Mile	Mid-Rise	Tysons Corner	Kettler	329	198	131	4/2017	5/2017	Q4 2017
30 Kingston at Anderson Park	High-Rise	Tysons Corner	LCOR	256	0	256	Q4 2017	Q4 2017	Q1 2018
31 Lumen at Tysons	High-Rise	Tysons Corner	Lennar	318	0	318	Q2 2018	Q3 2018	Q2 2019
32 The Boro - Tower A1	High-Rise	Tysons Corner	Kettler	323	0	323	Q2 2019	Q2 2019	Q3 2019
33 The Boro - Tower A3	High-Rise	Tysons Corner	Kettler	78	0	78	Q2 2019	Q2 2019	Q3 2019
34 The Loren	Mid-Rise	Seven Corners	Bozzuto	165	31	134	6/2017	6/2017	Q3 2017
oudoun County	M' I D'	D. II.	I P. t	442	00	24	1 /2017	2 (2017	6 (2017
47 Windmill Parc - Phase II	Mid-Rise	Dulles	Lerner Enterprises	112	88	24	1/2017	3/2017	6/2017

TABLE 3.14 RENTAL APARTMENT PROJECTS UNDER CONSTRUCTION AND/OR MARKETING Northern Virginia Third Quarter 2017 # of Mkt. Rate # of Units # of Available Inital Occup. Date Constr. **Project Name/Location Project Type** Location Sponsor(s) **Absorbed** Begins Date Complete 202 48 Park Towers Mid-Rise Manassas Park Talal Hassan 202 Q3 2018 Q3 2018 Q3 2018 49 Abberly Avera Low-Rise Prince William HHHunt 288 0 288 Q2 2018 Q3 2018 Q3 2018 50 Rivergate - Phase I Mid-Rise Woodbridge IDI Group 402 Q4 2017 Q1 2018 Q2 2018 100 53 Abberly at Southpoint HHHunt 9/2016 12/2016 Mid-Rise Southpoint 280 180 Q3 2017 54 Abberly Waterstone Low-Rise Stafford HHHunt 288 56 4/2017 7/2017 1/2018 13,380 3,121

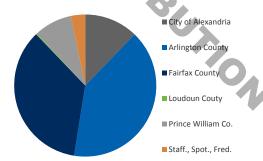
² Includes cities of Manassas and Manassas Park.

Comparison to Prior	Years
Available Units in Projects Unde	
Date	# Units
9/2017	10,259
12/2016	9,320
12/2015	10,357
12/2014	13,750
12/2013	13,405
12/2012	12,304
12/2011	8,496
12/2010	4,547
12/2009	5,480
12/2008	8,242
12/2007	8,807
12/2006	6,949
12/2005	5,741
12/2004	6,253
12/2003	7,574
12/2002	7,630
12/2001	8,410
12/2000	8,633

Available Units in Projects Under Construction



of Available Market Rate Units



Note: This Table may include some projects listed on Table 3.11

¹ Includes cities of Fairfax and Falls Church.

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TABLE 3.15 RENTAL PROJECTS PLANNED TO DELIVER OVER THE NEXT 36 MONTHS Northern Virginia Third Quarter 2017

Project Name	Project Type	Location	# of Mkt. Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg. Pmts. Issued?	Est. Constr. Start Date
City of Alexandria								
1 Braddock Gateway Phase II	High-Rise	Braddock Metro	258	Yes	Yes	Yes	No	7/2018
2 Cameron Park	Mid-Rise	Cameron Station	391	No	No	No	No	Q1 2018
3 Carlyle Plaza Two South	High-Rise	Carlyle	382	Yes	Yes	No	No	Q4 2017
4 2901 Eisenhower Avenue Phase I	High-Rise	Eisenhower	323	Yes	Yes	No	No	Q4 2017
Arlington County					.			
5 4201 Fairfax Drive	Mid-Rise	Ballston	72	No	No	No	No	Q4 2017
6 Carpool Site	High-Rise	Ballston	330	Yes	Yes	No	No	Q4 2017
Fairfax County 11								
7 e-lofts at 5600 Columbia Pike	Mid-Rise	Bailey's Crossroads	157	Yes	Yes	No	No	Q4 2017
8 Trinity Centre	Mid-Rise	Centreville	310	Yes	Yes	Yes	No	Q3 2017
9 Scout on the Circle	Mid-Rise	Fair Oaks	400	Yes	Yes	Yes	No	Q4 2017
10 Fairfax Towne Center	Mid-Rise	Fairfax	175	Yes	No	No	No	Q1 2018
11 Arrowbrook Centre - Ph. I	Mid-Rise	Herndon	177	Yes	Yes	Yes	No	Q4 2017
12 Huntington Crossing	Mid-Rise	Huntington	256	No	No	No	No	Q2 2018
13 South Alex	Mid-Rise	Huntington	346	Yes	Yes	Yes	No	Q1 2018
14 Fairfax Gateway	Mid-Rise	Kamp Washington	379	Yes	Yes	Yes	No	Q1 2018
15 Reston Heights - Phase II	Mid-Rise	Reston	200	Yes	Yes	Yes	No	Q1 2018
16 Highland District - Ph. I	High-Rise	Tysons Corner	320	Yes	No	No	No	Q1 2018
17 Founders Row	Mid-Rise	Falls Church	299	Yes	Yes	No	No	Q1 2018
Loudoun County								
18 Fox Gate	Mid-Rise	Chantilly	110	Yes	Yes	Yes	No	Q4 2018
19 The Hub	High-Rise	Dulles	412	Yes	No	No	No	Q4 2017

TABLE 3.15 RENTAL PROJECTS PLANNED TO DELIVER OVER THE NEXT 36 MONTHS Northern Virginia Third Quarter 2017 # of Mkt. Rate Bldg. Pmts. Initial Site Plan Est. Constr. Start **Project Name Project Type** Location **Proper Zoning?** Units Approvals? **Approved** Issued? Date Prince William County 2 20 Neabsco Commons - Phase II Mid-Rise Woodbridge 150 Yes Total: 5,447 **Total with Attrition:** 2,015

 $^{^{2}\,}$ Includes cities of Manassas and Manassas Park.

Comparison t	o Prior Years
Estimate of Next 18 - 3	6 Month Pipeline as of:
Date	# Units
9/2017	5,447
12/2016	7,612
12/2015	6,716
12/2014	9,746
12/2013	11,325
12/2012	13,078
12/2011	13,253
12/2010	12,490
12/2009	9,398
12/2008	10,022
12/2007	11,875
12/2006	5,284
12/2005	1,333
12/2004	5,043
12/2003	6,155
12/2002	6,189
12/2001	8,025
12/2000	7,677

Note: Projects planned to deliver their first units in the next 36 months. See Table 2.1 for materialization factor. If we have missed your project, please contact us. Note: Unless you provide data for this table, names of sponsors are no longer available to subscribers. If you provide data for this table and wish to know select sponsors' names, e-mail your request to info@DeltaAssociates.com.

¹ Includes cities of Fairfax and Falls Church.

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TABLE 3.16 SUMMARY OF LONGER-TERM PLANNED/RUMORED RENTAL APARTMENT PROJECTS Northern Virginia Third Quarter 2017

		Third Quarter 20	1/					
Project Name	Project Type	Location	# of Mkt. Rate	Proper	Initial	Site Plan	Bldg. Pmts.	Est. Constr.
<u> </u>		200411011	Units	Zoning?	Approvals?	Approved	Issued?	Start Date
City of Alexandria								
1 200 Stovall St.	High-Rise	Carlyle	525	No	No	No	No	N/A
2 Eisenhower Block 11	High-Rise	Carlyle	375	Yes	Yes	Yes	No	N/A
3 Eisenhower Block 12	High-Rise	Carlyle	380	Yes	Yes	No	No	N/A
4 Eisenhower Block 4 & 5	High-Rise	Carlyle	400	No	No	No	No	Q1 2019
5 2901 Eisenhower Avenue Phase II	High-Rise	Eisenhower	190	Yes	Yes	No	No	Q2 2019
6 Beauregard Town Center - Block F1	Mid-Rise	West Alexandria	183	No	No	No	No	N/A
7 Beauregard Town Center - Block G	Mid-Rise	West Alexandria	390	No	No	No	No	N/A
8 Beauregard Town Center - Other Phases	Mid-Rise	West Alexandria	800	No	No	No	No	N/A
9 Landmark Mall Redevelopment	Mid-Rise	West Alexandria	400	Yes	Yes	No	No	N/A
Arlington County								
10 4040 Wilson Blvd.	High-Rise	Ballston	244	Yes	Yes	Yes	No	Q2 2018
11 4610 North Fairfax Drive	High-Rise	Ballston	238	No	No	No	No	N/A
12 Clarendon West - Phase I	Mid-Rise	Clarendon	244	Yes	Yes	Yes	No	N/A
13 Clarendon West - Phase II	Mid-Rise	Clarendon	330	Yes	Yes	Yes	No	N/A
14 2400 Columbia Pike	Mid-Rise	Columbia Pike	105	Yes	Yes	No	No	N/A
15 Wakefield Manor Redevelopment	High-Rise	Courthouse	104	Yes	Yes	Yes	No	N/A
16 1770 Crystal Dive	High-Rise	Crystal City	650	N/A	N/A	N/A	N/A	N/A
17 Airport Plaza Phase IV	High-Rise	Crystal City	208	Yes	Yes	Yes	No	N/A
18 Century Center Addition	High-Rise	Crystal City	302	No	No	No	No	N/A
19 Crystal House III	Mid-Rise	Crystal City	252	Yes	No	No	No	N/A
20 Plaza V	High-Rise	Crystal City	353	No	No	No	No	N/A
21 Riverhouse	Mid-Rise	Pentagon City	933	No	No	No	No	N/A
22 Seven and Eight Metropolitan Park	High-Rise	Pentagon City	826	Yes	Yes	No	No	N/A
23 Six Metropolitan Park	High-Rise	Pentagon City	577	Yes	Yes	Yes	No	N/A
24 1400 block of Key Blvd	High-Rise	Rosslyn	130	No	No	No	No	N/A
25 1555 Wilson - East Tower	High-Rise	Rosslyn	561	Yes	Yes	No	No	N/A
26 1555 Wilson - West Tower	High-Rise	Rosslyn	331	Yes	Yes	No	No	N/A
27 1901 N. Moore Street	High-Rise	Rosslyn	285	Yes	No	No	No	N/A
28 Rosslyn Plaza -Redev.	High-Rise	Rosslyn	550	Yes	Yes	Yes	No	N/A

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TABLE 3.16 SUMMARY OF LONGER-TERM PLANNED/RUMORED RENTAL APARTMENT PROJECTS Northern Virginia Third Quarter 2017

Project Name	Project Type	Location	# of Mkt. Rate	Proper	Initial	Site Plan	Bldg. Pmts.	Est. Constr.
			Units	Zoning?	Approvals?	Approved	Issued?	Start Date
Fairfax County ¹				•				
29 AMF Annandale Lanes Site	High-Rise	Annandale	310	Yes	Yes	No	No	N/A
30 Columbia Crossroads	Mid-Rise	Bailey's Crossroads	350	Yes	Yes	No	No	N/A
31 Fair Lakes expansion	Mid-Rise	Fair Lakes	650	Yes	Yes	No	No	N/A
32 Layton Hall Apartments	Mid-Rise	Fairfax City	342	Yes	Yes	Yes	No	N/A
33 Graham Park Plaza Redevelopment	Mid-Rise	Falls Church	140	No	Yes	No	No	Q1 2019
34 Arrowbrook Centre - D2	Mid-Rise	Herndon	300	No	No	No	No	N/A
35 Arrowbrook Centre - Ph. II	Mid-Rise	Herndon	108	Yes	Yes	Yes	No	N/A
36 Dulles Technology Drive	Mid-Rise	Herndon	370	Yes	Yes	Yes	No	N/A
37 Woodland Park East - Block D	Mid-Rise	Herndon	375	Yes	N/A	N/A	N/A	N/A
38 Woodland Park Waterview	Mid-Rise	Herndon	386	N/A	N/A	N/A	N/A	N/A
39 Huntington Avenue Site	High-Rise	Huntington	141	No	No	No	No	N/A
40 Kings Crossing - Ph. III	Mid-Rise	Huntington	350	Yes	No	No	No	9/2018
41 Riverside Redevelopment	Mid-Rise	Huntington	767	No	No	No	No	Q4 2018
42 Kingstowne Towne Center	High-Rise	Kingstowne	800	No	No	No	No	N/A
43 Ashby Apartments addition	High-Rise	McLean	175	No	No	No	No	N/A
44 11111 Sunset Hills Road	Mid-Rise & TH	Reston	175	N/A	N/A	N/A	N/A	N/A
45 1808 Michael Faraday Drive	Mid-Rise	Reston	261	No	No	No	No	N/A
46 Commerce Metro Center - Phase I	Mid-Rise	Reston	200	Yes	Yes	Yes	No	N/A
47 Commerce Metro Center - Phase II	High-Rise	Reston	300	No	No	No	No	N/A
48 Lincoln at Commerce Center	Mid-Rise	Reston	260	N/A	N/A	N/A	N/A	N/A
49 Lincoln at Commerce Park	Mid-Rise	Reston	260	No	No	No	No	N/A
50 Midline (multiple phases)	Mid-Rise	Reston	504	No	No	No	No	Q1 2019
51 Reston Station Promenade	High-Rise	Reston	500	Yes	Yes	No	No	N/A
52 St. Johns Wood redevelopment	Mid-Rise	Reston	467	Yes	No	No	No	N/A
53 TBD	High-Rise	Reston	1,097	No	No	No	No	N/A
54 Excelsior Parc	High-Rise	Reston Town Center	457	Yes	Yes	Yes	No	N/A
55 8200 Greensboro Drive	High-Rise	Tysons Corner	384	Yes	Yes	Yes	No	N/A
56 8333 Greensboro Drive	High-Rise	Tysons Corner	162	No	No	No	No	N/A
57 Arbor Row - Phase II	Mid-Rise	Tysons Corner	223	Yes	Yes	No	No	N/A
58 Arbor Row (Block A-2)	High-Rise	Tysons Corner	356	Yes	Yes	Yes	No	N/A
59 Highland District - Other Phases	High-Rise	Tysons Corner	1,194	Yes	No	No	No	N/A
60 International Place	Mid-Rise	Tysons Corner	250	Yes	Yes	No	No	N/A
61 Park Crest Three	High-Rise	Tysons Corner	236	Yes	Yes	Yes	No	N/A
62 Sunburst at Spring Hill Metro	High-Rise	Tysons Corner	720	No	No	No	No	N/A

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TABLE 3.16 SUMMARY OF LONGER-TERM PLANNED/RUMORED RENTAL APARTMENT PROJECTS Northern Virginia Third Quarter 2017

		Tiliru Quarter 20)1/					
Project Name	Project Type	Location	# of Mkt. Rate	Proper	Initial	Site Plan	Bldg. Pmts.	Est. Constr.
Project Name	Project Type	Location	Units	Zoning?	Approvals?	Approved	Issued?	Start Date
Fairfax County ¹ continued								
63 The Commons - Other Phases	High-Rise	Tysons Corner	1,835	Yes	No	No	No	N/A
64 The Residences at Tysons II	High-Rise	Tysons Corner	460	Yes	Yes	No	No	2018
65 Towers Crescent (Bldg D)	High-Rise	Tysons Corner	266	Yes	Yes	Yes	No	Q2 2019
66 Towers Crescent (Bldg E)	High-Rise	Tysons Corner	266	Yes	Yes	Yes	No	2021
67 Towers Crescent (Bldg G)	High-Rise	Tysons Corner	266	Yes	Yes	Yes	No	2023
68 Tysons Central Clyde's - Bldg. D	High-Rise	Tysons Corner	288	Yes	No	No	No	2018
69 Tysons Central NVCommercial - Bldg. C	High-Rise	Tysons Corner	240	Yes	No	No	No	Q2 2019
70 Tysons West	Low-Rise	Tysons Corner	320	Yes	Yes	Yes	No	N/A
71 Tysons West	Mid-Rise	Tysons Corner	750	Yes	No	No	No	N/A
72 Westpark Plaza - Ph. I	High-Rise	Tysons Corner	432	Yes	Yes	No	No	N/A
73 Westpark Plaza - Ph. II	High-Rise	Tysons Corner	600	Yes	Yes	No	No	N/A
74 Fairlee-Metro West - Phase I	Mid-Rise	Vienna Metro	314	Yes	Yes	No	No	N/A
75 Fairlee-Metro West - Phase II	Mid-Rise	Vienna Metro	314	Yes	Yes	No	No	N/A
76 Fairlee-Metro West - Phase III	Mid-Rise	Vienna Metro	272	Yes	Yes	No	No	N/A
77 Applebee's Site	Mid-Rise	Falls Church	277	Yes	Yes	No	No	N/A
78 Falls Church City Center	High-Rise	Falls Church	412	Yes	Yes	No	No	N/A
79 Founder's Row	Mid-Rise	Falls Church	322	Yes	Yes	No	No	N/A
Loudoun County							<u> </u>	
80 Goose Creek Village North	Mid-Rise	Ashburn	230	No	No	No	No	N/A
81 Loudoun Parkway Center South	Mid-Rise	Ashburn	560	No	No	No	No	N/A
82 Kincora - Phase I	Low-Rise	Broad Run	550	Yes	Yes	No	No	N/A
83 Kincora - Phase II	Low-Rise	Broad Run	150	Yes	Yes	No	No	N/A
84 Lansdowne Towne Center	Mid-Rise	Lansdowne	50	No	No	No	No	N/A
85 Somerset Park Addition	Low-Rise	Leesburg	42	Yes	No	No	No	N/A
Prince William County ²								
86 Wellington Glen - Ph. III-V	Low-Rise	Manassas	316	Yes	No	No	No	N/A

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TABLE 3.16 SUMMARY OF LONGER-TERM PLANNED/RUMORED RENTAL APARTMENT PROJECTS Northern Virginia Third Quarter 2017 Project Type Location # of Mkt. Rate Proper Initial Site Plan Bldg. Pmts. Units Zoning? Approvals? Approved Issued?

Est. Constr.

Start Date

Project Name	Project Type	Location	# Of MRt. Rate Units	Zoning?
Stafford, Spotsylvania, City of Fredericksburg				
87 The Garrison at Stafford	Low-Rise	Stafford	453	N/A
Total:	_	_	34 421	-

¹ Includes cities of Fairfax and Falls Church.

² Includes cities of Manassas and Manassas Park.

Comparative Longer Term Pipeline For							
Market Rate Apartments as of:							
Date	# Units						
9/2017	34,421						
12/2016	29,962						
12/2015	31,756						
12/2014	27,314						
12/2013	23,984						
12/2012	17,601						
12/2011	14,858						
12/2010	9,876						
12/2009	15,009						
12/2008	13,670						
12/2007	8,578						
12/2006	9,700						
12/2005	8,019						
12/2004	3,472						
12/2003	8,612						
12/2002	11,745						
12/2001	7,273						
12/2000	8,977						

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TABLE 3.17 SUMMARY OF PROJECTS PLANNED EITHER AS CONDOMINIUM OR RENTAL Northern Virginia

Third Quarter 2017

		Tilli u Quai	tel 2017					
Project Name	Project Type	Location	# of Mkt. Rate	Proper	Initial	Site Plan	Bldg. Pmts.	Est. Constr.
<u> </u>			Units	Zoning?	Approvals?	Approved	Issued?	Start Date
City of Alexandria					73			
1 Braddock Gateway Phase III	High-Rise	Braddock Metro	300	N/A	N/A	N/A	N/A	N/A
2 Eisenhower Block 24	Mid-Rise	Carlyle	225	Yes	No	No	No	2020
3 Eisenhower Block 25A	Mid-Rise	Carlyle	175	Yes	No	No	No	2020
4 700 North Washington Street	Mid-Rise	North Old Town	30	No	No	No	No	Q4 2016
5 Oakville Triangle Redevelopment	Mid-Rise	Potomac Yard	900	Yes	Yes	No	No	Q3 2019
6 Potomac Yard Redev Other Phases	Mid-Rise	Potomac Yard	2,775	Yes	Yes	Yes	No	N/A
Arlington County						(0)		
7 Pentagon Centre - Ph. II	High-Rise	Pentagon City	264	Yes	Yes	Yes	No	N/A
8 Rosslyn Gateway - Phase III	High-Rise	Rosslyn	200	No	No	No	No	N/A
Fairfax County ¹								
9 The Rocks	High-Rise	Dulles	411	Yes	Yes	No	No	N/A
10 Fairfax Corner	Mid-Rise	Fairfax	290	Yes	Yes	Yes	No	N/A
11 Woodland Park East - Block C	Mid-Rise	Herndon	180	Yes	N/A	N/A	N/A	N/A
12 Huntington Club Redevelopment	High-Rise	Huntington	1,700	N/A	No	N/A	No	N/A
13 Fairways I & II Redevelopment	Low-Rise	Reston	673	No	No	No	No	N/A
14 Lake Anne Village Center	Mid-Rise & TH	Reston	835	No	No	No	No	N/A
15 Reston Gateway	High-Rise	Reston	1,710	N/A	N/A	N/A	N/A	N/A
16 Spectrum North - I	High-Rise	Reston Town Ctr	643	Yes	Yes	Yes	No	N/A
17 Spectrum North - II	High-Rise	Reston Town Ctr	237	Yes	Yes	No	No	N/A
18 Spectrum South	High-Rise	Reston Town Ctr	546	Yes	Yes	Yes	No	N/A
19 Springfield Town Center	Mid-Rise	Springfield	1,913	Yes	Yes	Yes	No	N/A
20 Capital One site	High-Rise	Tysons Corner	984	Yes	No	No	No	N/A
21 Dominion Square - east land bay	High-Rise	Tysons Corner	500	N/A	N/A	N/A	N/A	N/A
22 Dominion Square - west land bay	High-Rise	Tysons Corner	740	No	No	No	No	N/A
23 Perseus at Spring Hill Metro	High-Rise	Tysons Corner	272	No	No	No	No	N/A
24 Scott's Run Station North	High-Rise	Tysons Corner	371	No	No	No	No	N/A
25 Scott's Run Station South	High-Rise	Tysons Corner	1,506	Yes	Yes	No	No	N/A
26 Tysons Central Clyde's - Building E	High-Rise	Tysons Corner	195	N/A	N/A	N/A	N/A	N/A
27 Tysons Future - Phase II-IV	High-Rise	Tysons Corner	902	Yes	Yes	No	No	N/A

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TABLE 3.17 SUMMARY OF PROJECTS PLANNED EITHER AS CONDOMINIUM OR RENTAL

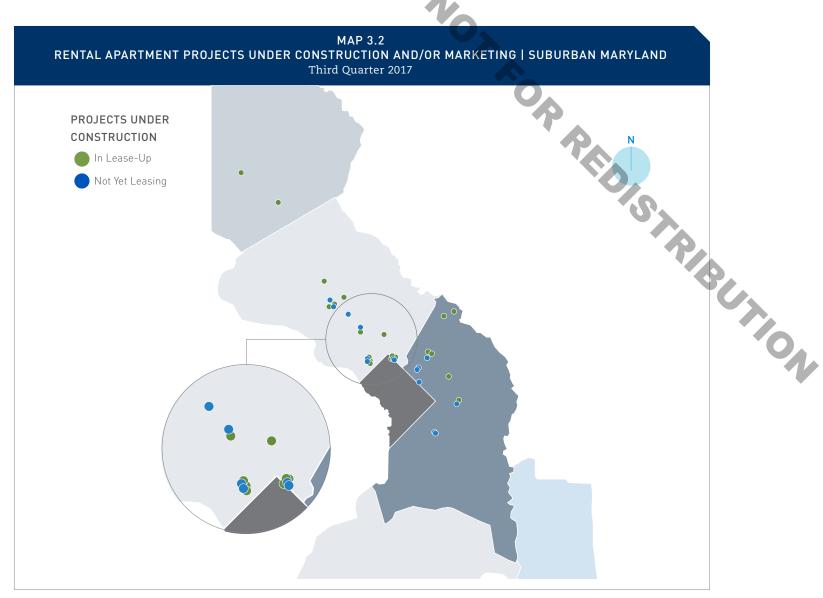
Northern Virginia Third Quarter 2017

		Time Quan	001 = 0 = 7					
Project Name	Project Type	Location	# of Mkt. Rate Units	Proper Zoning?	Initial	Site Plan	Bldg. Pmts. Issued?	Est. Constr. Start Date
_oudoun County			Units	Zoning	Approvals?	Approved	issueur	Start Date
	<u>.</u>							
28 Gramercy District	High-Rise	Ashburn	590	No	No	No	No	2019
29 Loudoun Metro Park - Phase I	Mid-Rise	Ashburn	150	No	No	No	No	N/A
30 Loudoun Metro Park - Phase II	Mid-Rise	Ashburn	542	No	No	No	No	N/A
31 Loudoun Station Phase II	High-Rise	Ashburn	250	No	No	No	No	N/A
32 One Loudoun	Mid-Rise	Ashburn	291	Yes	No	No	No	2017
33 Waterside	Low-Rise	Chantilly	2,500	No	No	No	No	N/A
34 Dulles Town Center	Low-Rise	Dulles	650	No	No	No	No	N/A
35 Loudoun Center	TH-Style	Dulles	774	No	No	No	No	N/A
Prince William County ²								
36 Potomac Shores - Other Phases	Mid-Rise & TH	Dumfries	1,700	Yes	Yes	No	No	N/A
37 Freedom Park	Low-Rise	Prince William	788	No	No	No	No	N/A
38 Prince William Overlook	Low-Rise	Woodbridge	150	No	No	No	No	N/A
Total:	-	-	27,862	-	-	-		-

 $^{^{1}\,}$ Includes cities of Fairfax and Falls Church.

Note: Unless you provide data for this table, names of sponsors are no longer available to subscribers. If you provide data for this table and wish to know select sponsors' names, e-mail your request to info@DeltaAssociates.com.

 $^{^{\}rm 2}$ Includes cities of Manassas and Manassas Park.



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TABLE 3.18 RENTAL APARTMENT PROJECTS UNDER CONSTRUCTION AND/OR MARKETING Suburban Maryland Third Quarter 2017

Project Name	Project Type	Location	Sponsor(s)	# of Mkt. Rate Units	# of Units Absorbed	# of Available Units	Date Pre-Lsg. Begins	Inital Occup. Date	Date Constr. Complete
Frederick County									
1 Bainbridge Jefferson Place	Low-Rise	Frederick	Bainbridge Cos.	228	214	14	1/2017	1/2017	4/2017
2 Urban Green	Low-Rise	Urbana	Matan Companies	354	218	136	Q3 2016	Q3 2016	Q2 2017
Montgomery County									
3 4850 Rugby	High-Rise	Bethesda	Donohoe	187	0	187	Q3 2018	Q4 2018	Q4 2018
4 7770 Norfolk Ave.	High-Rise	Bethesda	Ross Development	200	177	23	3/2016	3/2016	2/2016
5 Element 28	High-Rise	Bethesda	Kettler	88	59	29	8/2016	10/2016	Q4 2016
6 Flats 8300	High-Rise	Bethesda	Stonebridge Associates	287	246	41	3/2016	5/2016	Q2 2016
7 Solaire Bethesda	Mid-Rise	Bethesda	Washington Property Company	118	103	15	7/2016	9/2016	9/2016
8 West Lane	Mid-Rise	Bethesda	SJG Properties	95	0	95	Q4 2017	Q1 2018	5/2018
9 The Majestic at Watkins Mill	Mid-Rise	Gaithersburg	BP Realty	243	170	73	10/2016	10/2016	Q4 2016
10 Washingtonian North	Mid-Rise	Gaithersburg	Camden	310	0	310	Q2 2018	Q2 2018	Q4 2018
11 The Henri	High-Rise	North Bethesda	Federal Realty Investment Trust	225	101	124	Q2 2017	Q3 2017	Q4 2017
12 Camden Shady Grove	Mid-Rise	North Rockville	Camden	399	151	248	Q1 2017	Q1 2017	Q1 2018
13 Hanover Shady Grove	Mid-Rise	North Rockville	Hanover Development	316	292	24	Q2 2016	Q2 2016	Q3 2016
14 Mallory Square - Ph. II	Low-Rise	North Rockville	Woodfield Investments	315	0	315	Q3 2018	Q4 2018	Q2 2019
15 The Metropolitan Rockville Town Center	Mid-Rise	Rockville	Kettler	235	0	235	10/2017	11/2017	1/2018
16 The Daley	Mid-Rise & TH	Shady Grove	Bozzuto	256	40	216	Q2 2017	Q2 2017	Q4 2017
17 Central	Mid-Rise	Silver Spring	Grosvenor America	212	39	173	Q3 2017	Q3 2017	Q3 2017
18 Core	High-Rise	Silver Spring	Willco Companies	240	101	139	Q2 2017	Q2 2017	Q3 2017
19 Solaire Ripley East	High-Rise	Silver Spring	Washington Property Company	338	0	338	Q4 2018	Q4 2018	Q2 2019
20 Studio Plaza - Phase I	Mid-Rise	Silver Spring	Fairfield Residential	331	0	331	Q2 2018	Q2 2018	Q1 2019
21 The Pearl	High-Rise	Silver Spring	Tower Companies	276	95	181	2/2017	2/2017	6/2017
22 1900 Chapman	Mid-Rise	Twinbrook	JLB Partners	271	0	271	Q3 2018	Q3 2018	Q4 2018
23 AVA Wheaton	Mid-Rise	Wheaton	AvalonBay	319	36	283	8/2017	Q3 2017	Q1 2018

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TABLE 3.18 RENTAL APARTMENT PROJECTS UNDER CONSTRUCTION AND/OR MARKETING Suburban Maryland Third Quarter 2017

Project Name	Project Type	Location	Sponsor(s)	# of Mkt. Rate Units	# of Units Absorbed	# of Available Units	Date Pre-Lsg. Begins	Inital Occup. Date	Date Constr. Complete
Prince George's County									
24 Allure Apollo	Low-Rise	Branch Ave. Metro	Peter Schwartz	384	0	384	Q2 2018	Q3 2018	Q2 2019
25 Chelsea East	Low-Rise	Branch Ave. Metro	Wood Partners	208	0	208	Q4 2017	Q1 2018	Q2 2018
26 Studio 3807	Low-Rise	Brentwood	Landex Development	147	0	147	Q1 2018	Q2 2018	Q2 2018
27 Hampton Park	Mid-Rise	Capitol Heights	Velocity Capital	250	0	250	Q1 2020	Q1 2020	Q2 2020
28 Fuse 47	Mid-Rise	College Park	Wood Partners	275	0	275	2019	2019	2019
29 Monument Village	Mid-Rise	College Park	Monument Realty	235	142	93	Q2 2016	Q2 2016	Q2 2016
30 Verde at Greenbelt Station	Mid-Rise	Greenbelt	Atapco Properties	302	277	25	4/2016	Q3 2016	1/2017
31 Belcrest Plaza - Phase II	High-Rise	Hyattsville	Percontee	347	0	347	Q4 2018	Q4 2018	Q1 2019
32 The Edition	Mid-Rise	Hyattsville	Fore Property Company	351	0	351	Q1 2019	Q2 2019	Q2 2019
33 Ascend Apollo	Mid-Rise	Largo	Peter Schwartz	500	308	192	6/2016	10/2016	Q4 2016
34 Evolution at Towne Centre Laurel	Low-Rise	Laurel	Wood Partners	320	166	154	3/2017	5/2017	Q3 2017
35 Modera Westside	Low-Rise	Laurel	Mill Creek Residential Trust	456	364	92	2/2016	4/2016	Q4 2016
36 The Remy - Phase I	Low-Rise	New Carrollton	Berman Enterprises	278	27	251	Q3 2017	9/2017	Q2 2017
Total:	-	-	-	9,896	3,326	6,570	-	· .	-

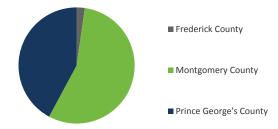
Comparison to Prior Years*								
Available Units in Projects	Under Construction							
at:								
Date *	# Units							
9/2017	6,570							
12/2016	7,488							
12/2015	7,356							
12/2014	9,085							
12/2013	10,456							
12/2012	8,316							
12/2011	5,776							
12/2010	2,312							
12/2009	3,344							
12/2008	6,716							
12/2007	8,033							
12/2006	5,563							
12/2005	3,926							
12/2004	5,185							
12/2003	4,641							
12/2002	4,097							
12/2001	3,097							
12/2000	2,202							

^{*} Dates prior to 12/2015 include available units in projects under construction in Howard and Anne Arundel counties.

Available Units in Projects Under Construction



of Available Market Rate Units



Note: This Table may include some projects listed on Table 3.11

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TABLE 3.19 RENTAL PROJECTS PLANNED TO DELIVER OVER THE NEXT 36 MONTHS Suburban Maryland Third Quarter 2017

	Project Name	Project Type	Location	# of Mkt. Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg. Pmts. Issued?	Est. Constr. Start Date
Mont	gomery County								
1	4820 Auburn Avenue	High-Rise	Bethesda	50	Yes	Yes	Yes	No	Q3 2018
2	7272 Wisconsin Avenue	High-Rise	Bethesda	420	N/A	N/A	N/A	N/A	N/A
3	7900 Wisconsin Avenue	High-Rise	Bethesda	308	Yes	Yes	Yes	Yes	10/2017
4	TBA	Mid-Rise	Bethesda	200	No	No	No	No	Q3 2018
5	Garnkirk Farms Apartments	Low-Rise	Clarksburg	163	Yes	Yes	Yes	No	Q1 2019
6	Magnolia	Low-Rise	Gaithersburg	156	Yes	Yes	Yes	No	Q1 2018
7	Elms at Century	Low-Rise	Germantown	243	Yes	Yes	Yes	No	Q4 2017
8	Gables Pike District	Mid-Rise	North Bethesda	389	Yes	Yes	Yes	No	Q4 2017
9	Lake Waverly - Phase I	Mid-Rise	North Bethesda	382	Yes	Yes	Yes	No	Q1 2018
10	North Bethesda Center - Ph. III	Mid-Rise	North Bethesda	258	Yes	No	No	No	Q3 2018
11	Elizabeth House III	Mid-Rise	Silver Spring	161	Yes	Yes	Yes	No	Q1 2018
12	Falkland Chase North Ph. I	High-Rise	Silver Spring	370	Yes	Yes	Yes	No	Q2 2018
13	Avalon at Twinbrook	Mid-Rise	Twinbrook	208	Yes	Yes	No	No	8/2018
14	St. Elmo Apartments	High-Rise	Woodmont Triangle	181	No	No	No	No	Q1 2018

Project Type	Location	# of Mkt. Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg. Pmts. Issued?	Est. Constr. Start Date
Low-Rise	Bowie	390	Yes	Yes	No	No	Q2 2018
Low-Rise	Brentwood	84	Yes	Yes	Yes	Yes	Q4 2017
Mid-Rise	Capitol Heights Metro	550	Yes	No	No	No	Q4 2017
Mid-Rise	College Park	370	No	No	No	No	Q2 2018
Mid-Rise	College Park	238	Yes	Yes	Yes	Yes	Q2 2018
Mid-Rise	Largo	352	Yes	Yes	Yes	No	Q3 2018
Low-Rise	New Carrollton	250	Yes	Yes	Yes	No	Q4 2017
Low-Rise	New Carrollton	225	Yes	Yes	No	No	2018
Mid-Rise	Riverdale Park	234	Yes	Yes	Yes	No	Q4 2017
Mid-Rise	Riverdale Park	76	Yes	Yes	Yes	No	2018
Mid-Rise	Riverdale Park	310	Yes	Yes	Yes	No	Q4 2017
Mid-Rise	Westphalia	250	Yes	Yes	Yes	No	Q1 2018
-		6,818	-	-	-	-	· .
		2,318					
	Low-Rise Low-Rise Mid-Rise Mid-Rise Mid-Rise Mid-Rise Low-Rise Low-Rise Mid-Rise Mid-Rise Mid-Rise Mid-Rise	Low-Rise Bowie Low-Rise Brentwood Mid-Rise Capitol Heights Metro Mid-Rise College Park Mid-Rise College Park Mid-Rise Largo Low-Rise New Carrollton Low-Rise New Carrollton Mid-Rise Riverdale Park Mid-Rise Riverdale Park Mid-Rise Riverdale Park Mid-Rise Riverdale Park Mid-Rise Westphalia	Low-Rise	Low-Rise Bowie 390 Yes	Low-Rise Bowie 390 Yes Yes Low-Rise Brentwood 84 Yes Yes Mid-Rise Capitol Heights Metro 550 Yes No No No Mid-Rise College Park 370 No No No Mid-Rise College Park 238 Yes Yes Yes Mid-Rise Largo 352 Yes Yes Yes Low-Rise New Carrollton 250 Yes Yes Low-Rise New Carrollton 225 Yes Yes Yes Mid-Rise Riverdale Park 234 Yes Yes Yes Mid-Rise Riverdale Park 234 Yes Yes Yes Mid-Rise Riverdale Park 310 Yes Yes Mid-Rise Riverdale Park 310 Yes Yes Mid-Rise Riverdale Park 310 Yes Yes Mid-Rise Westphalia 250 Yes Yes Yes Mid-Rise Westphalia 250 Yes Yes Yes Yes Mid-Rise Westphalia 250 Yes Yes	Low-Rise Bowie 390 Yes Yes No Low-Rise Brentwood 84 Yes Yes Yes Mid-Rise Capitol Heights Metro 550 Yes No No Mid-Rise College Park 370 No No No Mid-Rise College Park 238 Yes Yes Yes Mid-Rise College Park 238 Yes Yes Yes Mid-Rise Largo 352 Yes Yes Yes Low-Rise New Carrollton 250 Yes Yes Yes Low-Rise New Carrollton 250 Yes Yes Yes Mid-Rise Riverdale Park 234 Yes Yes Yes Mid-Rise Riverdale Park 234 Yes Yes Yes Mid-Rise Riverdale Park 310 Yes Yes Yes Mid-Rise Westphalia 250 Yes Yes Yes	Low-Rise Bowie 390 Yes Yes No No No Low-Rise Brentwood 84 Yes Yes No No No No Mid-Rise Capitol Heights Metro 550 Yes No No No No Mid-Rise College Park 370 No No No No No Mid-Rise College Park 238 Yes Yes Yes Yes Yes Mid-Rise Largo 352 Yes Yes Yes Yes No No No No No Mid-Rise New Carrollton 250 Yes Yes Yes No

Comparison to Prior	Comparison to Prior Years* Estimate							
of Next 18 - 36 Mont	of Next 18 - 36 Month Pipeline as of:							
Date *	# Units							
9/2017	6,818							
12/2016	7,221							
12/2015	8,992							
12/2014	15,073							
12/2013	15,879							
12/2012	13,318							
12/2011	16,222							
12/2010	9,599							
12/2009	6,019							
12/2008	6,927							
12/2007	6,676							
12/2006	6,598							
12/2005	4,450							
12/2004	5,836							
12/2003	3,622							
12/2002	2,198							
12/2001	3,366							
12/2000	4,387							

^{*} Dates prior to 12/2015 include units in Howard and Anne Arundel counties.

Note: Projects planned to deliver their first units in the next 36 months. See Table 2.1 for materialization factor. If we have missed your project, please contact us.

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TABLE 3.20 SUMMARY OF LONGER-TERM PLANNED/RUMORED RENTAL APARTMENT PROJECTS Suburban Maryland Third Quarter 2017

			Third Quarter 2	017					
	Project Name	Project Type	Location	# of Mkt. Rate	Proper Zoning?	Initial	Site Plan	Bldg. Pmts.	Est. Constr.
Monto	amani Carreti			Units		Approvals?	Approved	Issued?	Start Date
	omery County	Hiel Die-	Dath and a	150	Ma	N-	N	N	02 2010
1	4885 Edgemoor	High-Rise	Bethesda	150	No	No	No	No	Q2 2019
2	7316 Wisconsin Avenue	High-Rise	Bethesda	254	N/A	N/A	N/A	N/A	N/A Q1 2019
-	8280 Wisconsin Avenue	High-Rise	Bethesda	167	Yes	Yes	No	No	-
5	Bainbridge Bethesda Metro	High-Rise	Bethesda	225	Yes	Yes	No	No	N/A
	Ourisman Ford Site	Mid-Rise	Bethesda	297	Yes	No	No	No	N/A
6	TBA	High-Rise	Bethesda	536	Yes	Yes	No	No	Q2 2019
7	Tommy Joe's Site	High-Rise	Bethesda	225	No	No	No	No	N/A
8	Chevy Chase Lake - Building B1b	High-Rise	Chevy Chase	283	Yes	Yes	No.	No	Q1 2018
- 1	Chevy Chase Lake - Building B2	Mid-Rise	Chevy Chase	183	Yes	Yes		No	Q1 2018
10	Kentlands Apartments	Mid-Rise	Gaithersburg	295	Yes	N/A	N/A	N/A	N/A
11	The Empress at Watkins Mill	Low-Rise	Gaithersburg	252	Yes	Yes	Yes	No	N/A
12	The Lotus at Watkins Mill	Mid-Rise	Gaithersburg	210	Yes	Yes	Yes	No	N/A
13	The Remington at Watkins Mill	Mid-Rise	Gaithersburg	378	Yes	No	No	No	N/A
14	Residences at Olde Towne	Low-Rise	Gaithersburg Olde Town	162	Yes	Yes	Yes	No	N/A
15	Suites 355	Low-Rise	Gaithersburg Olde Town	227	Yes	Yes	Yes	No	N/A
16	Milestone Business Park	Mid-Rise	Germantown	485	N/A	Yes	N/A	N/A	N/A
17	Kensington MARC site	Mid-Rise	Kensington	68	Yes	No	No	No	N/A
18	East Village - Phase I	Mid-Rise	North Bethesda	334	Yes	Yes	Yes	No	N/A
19	East Village - Phase II	Mid-Rise	North Bethesda	203	Yes	No	No	No	N/A
20	Lake Waverly - Phase II	Mid-Rise	North Bethesda	232	Yes	Yes	Yes	No	N/A
21	Metro Pike Center Site	High-Rise	North Bethesda	320	Yes	Yes	No	No	N/Ā
22	North Bethesda Center - Ph. IV	High-Rise	North Bethesda	279	Yes	No	No	No	N/A
23	North Bethesda Market - Ph III	Mid-Rise	North Bethesda	335	Yes	Yes	Yes	No	N/A
24	Rock Spring Centre - DRI	Mid-Rise	North Bethesda	117	Yes	Yes	Yes	No	N/A
25	White Flint Gateway - Parcel A	High-Rise	North Bethesda	652	No	No	No	No	N/A
26	White Flint Gateway - Parcel B	Mid-Rise	North Bethesda	287	No	No	No	No	N/A
27	White Flint View	High-Rise	North Bethesda	165	Yes	Yes	Yes	No	N/A
28	Upton at Rockville - Phase II	High-Rise	Rockville	400	Yes	Yes	Yes	No	Q3 2018
29	Rockville Metro Plaza III	Mid-Rise	Rockville Town Center	240	Yes	No	No	No	N/A
30	8787 Georgia Avenue	High-Rise	Silver Spring	305	No	No	No	No	2019
31	900 Thayer Avenue	Mid-Rise	Silver Spring	124	Yes	Yes	No	No	N/A
32	Bonifant Plaza	Mid-Rise	Silver Spring	150	Yes	Yes	No	No	N/A
33	Falkland Chase North Ph. II	High-Rise	Silver Spring	496	Yes	No	No	No	N/A
34	Long Branch Town Center	Mid-Rise	Silver Spring	675	No	No	No	No	N/A
35	Silver Spring Park	Mid-Rise	Silver Spring	50	Yes	Yes	Yes	No	N/A
36	Solaire Ripley II	High-Rise	Silver Spring	374	No	Yes	No	No	Q2 2019
37	Studio Plaza - Phase II	High-Rise	Silver Spring	284	Yes	Yes	N/A	No	N/A
38	The Blairs - Other Phases	High-Rise	Silver Spring	1,300	Yes	Yes	No	No	2018
39	Halpine View Redevelopment	Low-Rise	Twinbrook	1,730	No	No	No	No	N/A
40	Twinbrook - Remaining Phases	High-Rise	Twinbrook	999	Yes	Yes	Yes	No	N/A
41	Twinbrook Metroplace - Ph. I	High-Rise	Twinbrook	347	Yes	Yes	Yes	No	N/A
42	Wheaton Grandview	High-Rise	Wheaton	151	Yes	No	No	No	N/A
43	White Flint - A-East Building	High-Rise	White Flint	333	N/A	N/A	N/A	N/A	N/A
44	White Flint - A-West Building	High-Rise	White Flint	280	N/A	N/A	N/A	N/A	N/A
45	White Flint - B-East Building	High-Rise	White Flint	289	N/A	N/A	N/A	N/A	N/A
46	White Flint - B-West Building	High-Rise	White Flint	315	N/A	N/A	N/A	N/A	N/A
		0			,	,	,	,	,

TABLE 3.20 SUMMARY OF LONGER-TERM PLANNED/RUMORED RENTAL APARTMENT PROJECTS Suburban Maryland Third Quarter 2017

	Project Name	Project Type	Location	# of Mkt. Rate	Proper Zoning?	Initial	Site Plan	Bldg. Pmts.	Est. Constr.
	1 Tojoot Namo	т тојсет турс	Location	Units	1 Topol Zollkig	Approvals?	Approved	Issued?	Start Date
Prince	George's County								
47	Monroe Gardens Redevelopment	Low-Rise	Bladensburg	125	Yes	Yes	Yes	No	N/A
48	Melford Village	Low-Rise & TH	Bowie	1,412	No	Yes	No	No	N/A
49	Capitol Heights Metro	Mid-Rise	Capitol Heights	200	No	No	No	No	N/A
50	Autoville Drive Site	Low-Rise	College Park	500	Yes	No	No	No	N/A
51	WMATA College Park lot	Mid-Rise	College Park	430	No	No	No	No	N/A
52	Woodmore Towne Centre	Mid-Rise	Glenarden	108	Yes	Yes	Yes	No	N/A
53	Greenbelt Place	Mid-Rise	Greenbelt	450	Yes	Yes	No	No	N/A
54	Greenbelt Station	Low-Rise	Greenbelt	302	Yes	Yes	Yes	No	N/A
55	Belcrest Plaza - Other Phases	High-Rise	Hyattsville	1,740	No	No	No	No	N/A
56	Landy Property - Phase I	Low-Rise	Hyattsville	218	Yes	Yes	Yes	No	N/A
57	Landy Property - Phase II	Mid-Rise	Hyattsville	203	Yes	No	No	No	N/A
58	Largo Centre West	Mid-Rise	Largo	532	Yes	Yes	Yes	No	N/A
59	Hawthorne Place - Phase I	Mid-Rise	Laurel	303	Yes	Yes	Yes	No	N/A
60	Hawthorne Place - Phase II	Mid-Rise	Laurel	405	Yes	Yes	Yes	No	N/A
61	The Oxford	High-Rise	Oxon Hill	195	No	No	No	No	N/A
62	Riverdale Park - Phase IV	Mid-Rise	Riverdale Park	200	Yes	Yes	Yes	No	Q3 2018
63	Cambridge Place at Westphalia	Low-Rise	Upper Marlboro	301	Yes	Yes	Yes	No	N/A
64	The Riverfront at West Hyattsville Metro	Low-Rise	West Hyattsville	300	No	No	No	No	N/A
	Total:	-		24,087	-	-	-	-	

Comparative Longer Term Pipeline							
For Market Rate Apartments as of:							
Date *	# Units						
9/2017	24,087						
12/2016	22,541						
12/2015	21,119						
12/2014	28,034						
12/2013	31,843						
12/2012	23,549						
12/2011	22,934						
12/2010	20,270						
12/2009	18,005						
12/2008	12,203						
12/2007	15,963						
12/2006	10,661						
12/2005	15,139						
12/2004	10,047						
12/2003	13,452						
12/2002	11,327						
12/2001	10,973						
12/2000	8,830						

^{*} Dates prior to 12/2015 include available units in projects under construction in Howard and Anne Arundel Counties.

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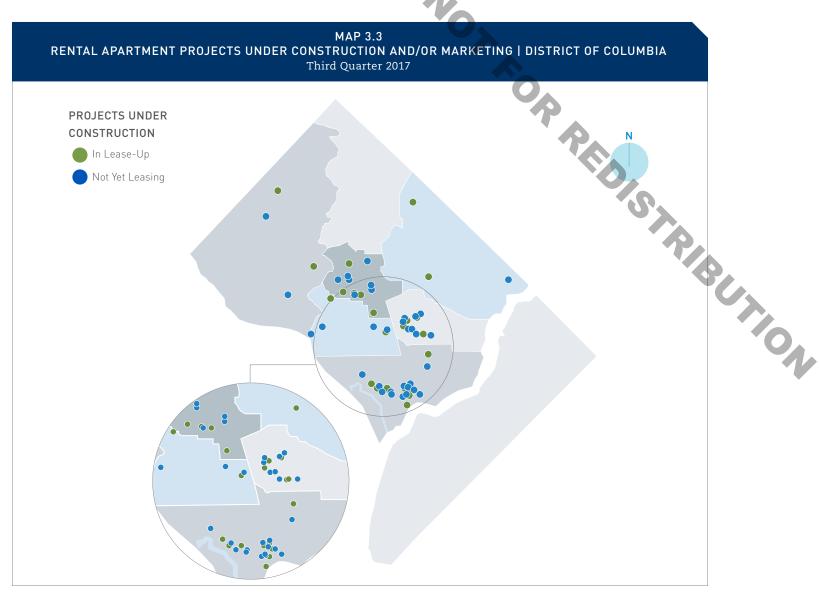
TABLE 3.21

SUMMARY OF PROJECTS PLANNED EITHER AS CONDOMINIUM OR RENTAL

Suburban Maryland Third Quarter 2017

	Project Name	Project Type	Location	# of Mkt. Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg. Pmts. Issued?	Est. Constr. Start Date
Montg	omery County					•			
1	Westwood	Mid-Rise	Bethesda	750	Yes	Yes	No	No	Q1 2018
2	7316 Wisconsin	High-Rise	Bethesda	290	N/A	N/A	N/A	N/A	N/A
3	Olde Towne Gaithersburg	Mid-Rise	Gaithersburg	240	No	No	No	No	N/A
4	Glenmont Metro	Low-Rise	Glenmont Metro	250	Yes	Yes	Yes	No	5/2018
5	North Bethesda Center - Ph. V	High-Rise	North Bethesda	279	Yes	No	No	No	N/A
6	Pike & Rose - Add. Phases	Mid-Rise	North Bethesda	687	Yes	Yes	No	No	N/A
7	White Flint Mall - Ph I	Mid-Rise	North Bethesda	1,138	No	No	No	No	N/A
8	Twinbrook Metroplace - Ph. III	Mid-Rise	Twinbrook	223	Yes	Yes	No	No	N/A
9	White Flint Mall - Ph II	Mid-Rise	White Flint	384	No	No	No	No	N/A
10	White Flint Mall - Ph III	High-Rise	White Flint	601	No	No	No	No	N/A
Prince	George's County								
11	Amber Ridge	Mid-Rise	Bowie	186	Yes	Yes	No	No	2018
12	The Villages at Timothy Branch II	Mid-Rise	Brandywine	245	Yes	Yes	No	No	N/A
13	People's Harbor	Mid-Rise	Colmar Manor	175	No	No	No	No	N/A
14	Konterra Town Center East - Other Ph	Mid-Rise	Konterra	3,900	Yes	Yes	Yes	No	N/A
15	Konterra Town Center East - Ph I	Mid-Rise	Konterra	600	Yes	Yes	Yes	No	2018
16	Midtown North - Other Phases	Mid-Rise	National Harbor	302	Yes	Yes	Yes	No	N/A
17	Midtown North Block X	Mid-Rise	National Harbor	250	Yes	Yes	Yes	No	N/A
18	National Harbor - Other Phases	Mid-Rise	National Harbor	1,500	Yes	Yes	Yes	No	N/A
19	New Carrollton Metro Station Development - Other Phases	High-Rise	New Carrollton	545	Yes	No	No	No	Q3 2017
20	Suitland Town Center	Mid-Rise	Suitland Metro	678	No	No	No	No	N/A
21	Marlton	Mid-Rise	Upper Marlboro	397	No	No	No	No	N/A
22	West Hyattsville Commons - Ph I	Mid-Rise	West Hyattsville	320	Yes	No	No	No	N/A
23	West Hyattsville Commons- Ph II, III, IV	Mid-Rise	West Hyattsville	963	Yes	No	No	No	N/A
24	Westphalia Center - Other Phases	Mid-Rise	Westphalia	484	Yes	Yes	Yes	No	N/A
	Total:	•	-	15,387	-	-	-	-	-

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TABLE 3.22 RENTAL APARTMENT PROJECTS UNDER CONSTRUCTION AND/OR MARKETING District of Columbia Third Quarter 2017

			Tima Quarter 2017						
Project Name	Project Type	Location	Sponsor(s)	# of Mkt. Rate Units	# of Units Absorbed	# of Available Units	Date Pre-Lsg. Begins	Inital Occup. Date	Date Constr. Complete
Capitol Hill/Riverfront/SW									
1 700 Constitution	Low-Rise	Capitol Hill	Urban Structures LLC	139	62	77	4/2017	5/2017	Q2 2017
2 Residences at Eastern Market	Mid-Rise	Capitol Hill	Eastbanc	112	0	112	Q4 2017	Q4 2017	Q4 2017
3 1221 Van	High-Rise	Capitol Riverfront	JBG Smith	279	0	279	11/2017	Q4 2017	Q1 2018
4 1250	High-Rise	Capitol Riverfront	Jair Lynch	440	0	440	Q1 2019	Q1 2019	Q2 2019
5 2 Eye Street - Phase I	High-Rise	Capitol Riverfront	RCP	355	0	355	2019	2019	2019
6 Agora at The Collective	High-Rise	Capitol Riverfront	William C. Smith & Co.	321	0	321	Q4 2017	Q4 2017	Q1 2018
7 Dock 79	High-Rise	Capitol Riverfront	MRP Realty	280	271	9	5/2016	9/2016	9/2016
8 F1rst Residences	High-Rise	Capitol Riverfront	McCaffery Interests	275	170	105	2/2017	4/2017	Q2 2017
9 Insignia on M	High-Rise	Capitol Riverfront	Donohoe	324	152	172	Q2 2017	02 2017	02 2017
10 One Hill South	High-Rise	Capitol Riverfront	Ruben Companies	382	229	153	1/2017	3/2017	Q2 2017
11 Ore 82	High-Rise	Capitol Riverfront	Greystar	227	224	3	10/2016	Q4 2016	01 2017
12 Parc Riverside - Phase II	High-Rise	Capitol Riverfront	Toll Brothers Apartment Living	308	0	308	Q1 2019	02 2019	03 2019
13 Square 769N	High-Rise	Capitol Riverfront	Urban-Atlantic	143	0	143	Q1 2018	Q2 2018	Q3 2018
14 The Guild	Mid-Rise	Capitol Riverfront	Forest City Washington	153	0	153	Q3 2018	Q3 2018	Q4 2018
15 West Half Apartments	High-Rise	Capitol Riverfront	JBG Smith	390	0	390	Q2 2019	Q2 2019	Q3 2019
16 1331 Maryland Avenue SW	High-Rise	SW Waterfront	Republic Properties	373	0	373	Q4 2018	Q3 2019	Q3 2019
17 301 M Street	High-Rise	SW Waterfront	The Bernstein Companies	150	0	150	Q1 2018	Q1 2018	Q2 2018
18 Eliot on 4th	High-Rise	SW Waterfront	Forest City Washington	365	164	201	3/2017	5/2017	5/2017
19 Incanto	High-Rise	SW Waterfront	Hoffman Madison Waterfront	101	16	85	5/2017	9/2017	Q4 2017
20 Riverside Baptist site	High-Rise	SW Waterfront	PN Hoffman	156	0	156	Q3 2018	Q4 2018	Q4 2018
21 The Channel	High-Rise	SW Waterfront	Hoffman Madison Waterfront	348	48	300	5/2017	10/2017	Q4 2017
22 The View at Waterfront	High-Rise	SW Waterfront	Mill Creek Residential Trust	267	0	267	Q3 2018	Q4 2018	Q1 2019
23 Valo	High-Rise	SW Waterfront	Trammell Crow Company	198	0	198	Q1 2018	Q2 2018	Q3 2018
Central									
24 Boathouse	Mid-Rise	Foggy Bottom	Urban Investment Partners LLC	228	0	228	7/2018	8/2018	11/2018
25 The Hepburn	High-Rise	Kalorama	Lowe Enterprises	195	157	38	7/2016	Q3 2016	Q3 2016
26 Columbia Place	High-Rise	Mt. Vernon Square	Quadrangle	214	0	214	Q1 2018	Q1 2018	Q2 2018
27 455 Eye	High-Rise	Mt. Vernon Triangle	Equity Residential	174	153	21	Q2 2017	6/2017	9/2017
28 The Lydian	High-Rise	Mt. Vernon Triangle	Quadrangle	324	0	324	Q1 2018	Q2 2018	Q2 2018
29 Square 37 - East	High-Rise	West End	Eastbanc	93	0	93	Q4 2017	Q4 2017	Q4 2017
Columbia Heights/Shaw									
30 1777 Columbia Road	Mid-Rise	Adams Morgan	Beztak Properties	80	0	80	Q2 2018	Q3 2018	Q3 2018
31 Modera Embassy	Mid-Rise	Adams Morgan	Mill Creek Residential Trust	126	0	126	Q3 2018	Q3 2018	Q2 2019
32 Reed Row	Mid-Rise	Adams Morgan	Kettler	118	49	69	5/2017	6/2017	Q3 2017
33 2601 16th Street	Mid-Rise	Meridian Hill	Jair Lynch	206	0	206	Q4 2018	Q4 2018	Q4 2018
34 The Vintage	High-Rise	Mt. Pleasant	Valor Development	85	56	29	4/2017	4/2017	4/2017
35 Linens of the Week/Alsco	Mid-Rise	Park View	Holladay	227	0	227	Q1 2018	Q2 2018	Q2 2018
36 880 P	Mid-Rise	Shaw	Roadside Development	138	30	108	Q2 2017	Q3 2017	Q3 2017
37 13th U	Mid-Rise	U Street	JBG Smith	117	31	86	8/2017	8/2017	8/2017
38 Atlantic Plumbing (Parcel C)	High-Rise	U Street	JBG Smith	225	0	225	Q1 2019	Q2 2019	Q2 2019
39 Berkshire 15	High-Rise	U Street	Berkshire Communities	96	78	18	Q4 2016	Q4 2016	Q4 2016
40 Sherman Avenue Apartments	Mid-Rise	U Street	RISE	287	0	287	Q4 2018	Q4 2018	Q4 2018
41 The Sonnet	High-Rise	U Street	Trammell Crow Company	288	0	288	Q1 2018	Q2 2018	Q3 2018

	R	ENTAL APARTM	TABLE 3.22 ENT PROJECTS UNDER CONSTRUC District of Columbia Third Quarter 2017	CTION AND/OR	MARKETING				
Project Name	Project Type	Location	Sponsor(s)	# of Mkt. Rate Units	# of Units Absorbed	# of Available Units	Date Pre-Lsg. Begins	Inital Occup. Date	Date Const Complete
NoMa/H Street									
42 315 H Street	Mid-Rise	H Street	MRP Realty	112	0	112	Q2 2018	Q2 2018	Q2 2018
43 Anthology	High-Rise	H Street	Benthall Kennedy	307	260	47	10/2016	Q4 2016	Q4 2016
44 Apollo H Street	Mid-Rise	H Street	Insight Property Group LLC	398	219	179	9/2016	11/2016	5/2017
45 Avec at 901 H Street	Mid-Rise	H Street	The Rappaport Cos	385	0	385	Q1 2018	Q4 2019	Q4 2019
46 100 K Street	High-Rise	NoMa	Equity Residential	222	0	222	Q2 2018	Q2 2018	Q3 2018
47 33 N Street	High-Rise	NoMa	Wood Partners	350	0	350	Q4 2017	Q1 2018	Q2 2018
48 AVA NoMa	High-Rise	NoMa	AvalonBay	438	219	219	Q2 2017	Q2 2017	Q2 2018
49 Camden NoMa - Phase II	High-Rise	NoMa	Camden	405	218	187	Q1 2017	Q1 2017	Q3 2017
50 RESA	High-Rise	NoMa	Skanska Commercial Development USA	326	0	326	Q4 2018	Q4 2018	Q4 2018
51 Union Place - Phase I & II	High-Rise	NoMa	Toll Brothers Apartment Living	472	0	472	Q2 2018	Q3 2018	Q4 2018
52 1270 4th Street NE	High-Rise	Union Market	Trammell Crow Residential	430	0	430	2018	Q4 2018	Q4 2018

305

149

284

200

379

225

242

98

136

15,170

33

18

0

60

0

221

0

54

3,192

Level 2 Development

LCOR

Douglas Development

Fort Lincoln New Town Corp.

Cafritz Foundation

JBG Smith

Cafritz Foundation

Urban Investment Partners LLC

CAS Riegler

Comparison to Prior Years Available Units in Projects Under Construction at:							
Date	# Units						
9/2017	11,978						
12/2016	11,815						
12/2015	9,573						
12/2014	9,298						
12/2013	9,274						
12/2012	8,274						
12/2011	6,398						
12/2010	3,286						
12/2009	2,137						
12/2008	4,017						
12/2007	3,717						
12/2006	2,167						
12/2005	1,242						
12/2004	1,972						
12/2003	2,822						

53 Highline at Union Market

57 The Modern at Art Place

60 4000 Brandywine Street

61 South Cathedral Mansions

Total:

54 The Edison

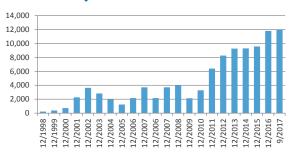
55 Brookland Press

58 The Glover House

59 5333 Connecticut

56 Fort Lincoln

Available Units in Projects Under Construction



of Available Market Rate Units

Q4 2018

Q2 2017

Q3 2017

Q1 2019

Q2 2017

Q1 2019

5/2016

11/2017

Q1 2017

8/2017

Q4 2017

Q2 2019

9/2017

Q1 2019

6/2016

1/2018

Q2 2017

Q1 2019

Q3 2017

Q4 2017

Q3 201

Q2 2019

Q2 2016

1/2018

Q2 2017

Q2 2019

305

116

266

200

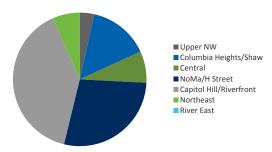
319

225

21

82

11,978



Note: This Table may include some projects listed on Table 3.11

12/2002

12/2001

12/2000

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006. Phone: (202) 778-3100. Last Update: September 2017.

High-Rise

Mid-Rise

Mid-Rise

Mid-Rise

Mid-Rise

High-Rise

High-Rise

Mid-Rise

Mid-Rise

Union Market

Union Market

Brentwood

Fort Lincoln

Fort Totten

Burleith

Chevy Chase DC

Tenleytown

Woodley Park

3,631

2,277

726

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TABLE 3.23

RENTAL PROJECTS PLANNED TO DELIVER OVER THE NEXT 36 MONTHS

District of Columbia Third Quarter 2017

			Third Quarte	er 2017					
	Project Name	Project Type	Location	# of Mkt. Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg. Pmts. Issued?	Est. Constr. Start Date
Capito	ol Hill/Riverfront/SW								
1	Beckert's Park	Mid-Rise	Capitol Hill	296	Yes	No	No	No	Q3 2018
2	Lockwood Apartments	Mid-Rise	Capitol Hill	132	Yes	Yes	Yes	No	10/2017
3	1st & K St - Ph. I	High-Rise	Capitol Riverfront	400	No	No	No	No	Q4 2017
4	71 Potomac	High-Rise	Capitol Riverfront	253	No	No	No	No	Q4 2017
5	818 Potomac Avenue SE	Mid-Rise	Capitol Riverfront	72	N/A	N/A	N/A	No	Q4 2017
6	Capper Carrollsburg - Square 739	High-Rise	Capitol Riverfront	257	Yes	Yes	No	No	Q2 2018
7	Capper Carrollsburg - Square 768	High-Rise	Capitol Riverfront	235	Yes	Yes	No	No	Q2 2018
8	Square 740	High-Rise	Capitol Riverfront	275	N/A	No	No	No	Q4 2017
9	The Garrett at The Collective	High-Rise	Capitol Riverfront	375	Yes	Yes	Yes	No	Q4 2017
10	1401 Pennsylvania Ave SE	Mid-Rise	Hill East	154	Yes	Yes	Yes	Yes	Q4 2017
11	Hill East Ph. 1	Mid-Rise	Hill East	248	Yes	Yes	Yes	No	12/2017
12	1319 South Capitol Street	High-Rise	South Capitol	200	Yes	No	No	No	Q4 2017
13	555 E Street	High-Rise	SW Waterfront	136	No	No	No	No	Q4 2017
14	The Kiley on 4th	Mid-Rise	SW Waterfront	271	Yes	Yes	Yes	No	1/2018
Centra	al								
15	1701 14th Street	Mid-Rise	Logan Circle	80	N/A	N/A	N/A	N/A	Q4 2017
Colun	nbia Heights/Shaw								
16	Carver Hall	Low-Rise	LeDroit Park	62	Yes	Yes	Yes	N/A	Q1 2018
17	Slowe Hall	Low-Rise	LeDroit Park	100	Yes	Yes	Yes	N/A	Q1 2018
18	965 Florida Avenue	Mid-Rise	U Street	300	Yes	No	No	No	Q4 2017
NoMa	/H Street								
19	Eckington Yards East	Mid-Rise	Eckington	226	Yes	Yes	Yes	No	Q2 2018
20	Valvaere	High-Rise	H Street	278	No	No	No	No	Q4 2017
21	300 M Street	Mid-Rise	NoMa	389	Yes	Yes	Yes	No	Q4 2017
22	DCHA HQ - Phase I	High-Rise	NoMa	400	Yes	Yes	Yes	No	Q1 2018
23	Storey Park	High-Rise	NoMa	460	Yes	Yes	Yes	No	Q4 2017
24	Washington Gateway - Ph II	High-Rise	NoMa	342	No	No	No	No	Q1 2018
25	1300 Fourth Street NE	Mid-Rise	Union Market	107	N/A	N/A	N/A	N/A	N/A
26	500 Morse Street	High-Rise	Union Market	248	Yes	Yes	Yes	No	Q4 2018
North	east								
27	680 Rhode Island - Ph. I	Mid-Rise	Brentwood	400	No	No	No	No	Q1 2018
28	RIA Block 7	Mid-Rise	Brentwood	106	Yes	Yes	Yes	No	1/2018
29	901 Monroe	Mid-Rise	Brookland	212	Yes	Yes	Yes	No	Q1 2018
30	Fort Totten Metro	Mid-Rise	Fort Totten	310	No	No	No	No	Q4 2017

	RENTAL PROJECTS F	TABLE PLANNED TO DEL District of C Third Quar	IVER OVER THE columbia	NEXT 36 MON	тнѕ			
Project Name	Project Type	Location	# of Mkt. Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg. Pmts. Issued?	Est. Constr. Start Date
River East					(A)			
31 Skyland Town Center - Block 2	Mid-Rise	Hillcrest	216	Yes	Yes	Yes	Yes	Q4 2017
Upper NW								
32 Broadcast	Mid-Rise	Tenleytown	131	No	No	No	No	6/2018
Total:	-	-	7,671	-	-	-	-	-
Total with Attrition:	-	-	1,994	-	-		-	-

Comparison to Prior Years Estimate of Next 18 - 36 Month Pipeline as of:							
Date	# Units						
9/2017	7,671						
12/2016	6,712						
12/2015	5,604						
12/2014	6,680						
12/2013	6,840						
12/2012	7,947						
12/2011	7,945						
12/2010	5,978						
12/2009	6,182						
12/2008	5,386						
12/2007	4,955						
12/2006	2,160						
12/2005	1,832						
12/2004	1,178						
12/2003	1,196						
12/2002	1,735						
12/2001	1,705						
12/2000	2,149						

Note: Projects planned to deliver their first units in the next 36 months. See Table 2.1 for materialization factor. If we have missed your project, please contact us.

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TABLE 3.24 SUMMARY OF LONGER-TERM PLANNED/RUMORED RENTAL APARTMENT PROJECTS District of Columbia Third Quarter 2017 # of Mkt. Rate Initial Site Plan Bldg. Pmts. Est. Constr. **Project Name Project Type** Location **Proper Zoning? Start Date** Units Approvals? Approved Issued? 1 1800 Half Street High-Rise No 2020 **Buzzard Point** 300 No No No 2 1900 Half Street High-Rise **Buzzard Point** 405 Yes Yes Yes No N/A 3 Riverpoint High-Rise **Buzzard Point** 425 No No No N/A 1000 South Capitol Street High-Rise Capitol Riverfront 320 N/A N/A N/A N/A 1333 M Street - Ph. I 218 High-Rise Capitol Riverfront Yes No No N/A 2019 6 1st & K St - Ph. II High-Rise Capitol Riverfront 400 No No No One Hill South - Phase II High-Rise Capitol Riverfront 300 No No No Q2 2018 The Yards - Parcel L High-Rise Capitol Riverfront 216 No No No N/A 9 WASA site - G1 parcel High-Rise Capitol Riverfront 322 No No No N/A 10 WASA site - G2 parcel High-Rise Capitol Riverfront 230 Nο No No N/A 11 Randall School - East Building High-Rise South Capitol 245 Yes No No 2019 12 Randall School - West Building 01 2019 High-Rise South Capitol 244 Yes Yes No Yes 13 The Bard Mid-Rise SW Waterfront 93 No No No No N/A 115 Q2 2018 14 The Wharf - Parcel 8 High-Rise SW Waterfront Yes No No No Q1 2019 15 Town Center North High-Rise SW Waterfront 140 No No No No 16 Waterfront Station - NE Parcel High-Rise 2019 SW Waterfront 310 No No No No 17 90 Blagden Alley Mid-Rise Mt. Vernon Square 112 Yes No N/A Yes Yes Q3 2018 18 4th and K - Ph. I High-Rise Mt. Vernon Triangle 450 Yes Yes Yes No 19 The Cantata Mt. Vernon Triangle 268 Q2 2020 High-Rise Yes Yes Yes No 20 1309-1315 Clifton Street Mid-Rise Columbia Heights No N/A 153 No No No 21 Parcel 42 High-Rise Shaw 83 No No No No Q4 2019 NoMa/H Street 22 Eckington Park Mid-Rise Eckington 300 No No No No 04 2018 23 Atlas District - Phase II Mid-Rise H Street 173 Yes Yes Yes No N/A 24 51 N Street High-Rise NoMa 200 Yes Yes Yes No N/A 25 Burnham Place High-Rise NoMa 250 No Nο No Q1 2019 No 26 Central Armature Works site NoMa 400 No No No Q2 2018 High-Rise No 27 DCHA HQ - Phase II 307 Q2 2022 High-Rise NoMa Yes No Yes Yes 28 DCHA HQ - Phase III High-Rise NoMa 290 Yes Yes Yes No Q1 2023 29 Press House at Union District High-Rise NoMa 370 No No No No N/A 30 Sursum Corda - Ph 2 High-Rise NoMa 649 No No No No N/A 31 500 Penn St Union Market 273 High-Rise No No No N/A No 32 Market Terminal A1 Mid-Rise Union Market 244 No No No No N/A 33 Market Terminal A2 Union Market High-Rise 147 No No No No N/A 34 Market Terminal B Mid-Rise Union Market 97 No No No No N/A 35 Market Terminal C2 229 Mid-Rise Union Market No No No No N/A 36 Union Market North High-Rise Union Market 231 No No No No N/A

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	TABLE 3.24										
		SUMMARY OF LON	GER-TERM PLANNED	RUMORED RE	NTAL APARTME	ENT PROJECT	S				
			District	of Columbia							
			Third (uarter 2017							
	Project Name	Project Type	Location	# of Mkt. Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg. Pmts. Issued?	Est. Constr. Start Date		
North	east										
37	RIA Blocks 1 & 4	Mid-Rise	Brentwood	475	Yes	Yes	Yes	N/A	1/2023		
38	RIA Blocks 2, 3, 5, & 6	Mid-Rise	Brentwood	828	Yes	Yes	Yes	N/A	1/2020		
39	Brookland Metro Site	Mid-Rise	Brookland	252	No	No	No	No	Q3 2020		
40	Monroe Street Market - Block E	Mid-Rise	Brookland	100	Yes	Yes	Yes	No	N/A		
41	Art Place at Fort Totten - Phase II	Mid-Rise	Fort Totten	400	Yes	No	No	No	N/A		
42	NewCityDC	Mid-Rise	Ivy City	422	N/A	No	N/A	No	N/A		
River	East										
43	Reunion Square	Low-Rise	Anacostia	130	No	No	No	No	N/A		
44	4049 South Capitol St	Mid-Rise	Bellevue	150	N/A	N/A	N/A	N/A	N/A		
45	Congress Heights Metro	High-Rise	Congress Heights	208	No	No	No	No	N/A		
46	Skyland Town Center - Block 3	Mid-Rise	Hillcrest	80	Yes	Yes	Yes	No	N/A		
47	Skyland Town Center - Block 4	Mid-Rise	Hillcrest	70	Yes	Yes	Yes	No	N/A		
48	Parkside - Parcel F	Mid-Rise	Riverside Terrace	360	Yes	No	No	No	N/A		
Uppe	· GA										
49	Murry's Georgia Avenue Site	Mid-Rise	Petworth	100	No	No	No	No	N/A		
50	Shepard Park Gateway Project	Mid-Rise	Shepard Park	199	No	No	No	No	N/A		
51	Takoma WMATA parcel	Mid-Rise	Takoma	210	No	No	No	No	N/A		
52	Walter Reed Town Center	Mid-Rise	Takoma	300	N/A	No	No	No	N/A		
Uppe	· NW										
53	The Ladybird	Mid-Rise	AU Park	175	No	No	No	No	N/A		
54	Georgetown Day School Campus Expansion	Mid-Rise	Tenleytown	290	No	No	No	No	N/A		
55	2660 Woodley Road NW	Mid-Rise	Woodley Park	115	No	No	No	No	N/A		
	Total:	-	-	14,373	-	-	-	-	-		

Comparative Longer Term Pipeline For Market Rate Apartments as of:										
Date	# Units									
9/2017	14,373									
12/2016	16,775									
12/2015	12,045									
12/2014	10,869									
12/2013	8,812									
12/2012	6,587									
12/2011	5,717									
12/2010	5,990									
12/2009	7,685									
12/2008	8,284									
12/2007	5,306									
12/2006	2,728									
12/2005	3,614									
12/2004	1,798									
12/2003	2,948									
12/2002	3,091									
12/2001	4,210									
12/2000	3,160									

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			TAE	BLE 3.25	1/0				
		SUMMARY OF	PROJECTS PLANNED	EITHER AS C	O MUINIMODINO	R RENTAL			
			District	of Columbia					
			Third Q	uarter 2017					
	Project Name	Project Type	Location	# of Mkt. Rate	Proper Zoning?	Initial	Site Plan	Bldg. Pmts.	Est. Constr.
		1 Toject Type	Location	Units	Troper Zonnig.	Approvals?	Approved	Issued?	Start Date
_	ol Hill/Riverfront/SW								
1	1333 M Street - Ph. II	High-Rise	Capitol Riverfront	133	No	No	No	No	N/A
2	1333 M Street - Ph. III	High-Rise	Capitol Riverfront	234	No	No	No	No	N/A
3	1333 M Street - Ph. IV	High-Rise	Capitol Riverfront	88	No	No	No	No	N/A
4	2 Eye Street - Phase II	High-Rise	Capitol Riverfront	170	Yes	Yes	Yes	No	N/A
5	1001 South Capitol Street Phase I and II	High-Rise	SW Waterfront	600	No	No	No	No	N/A
6	300 7th Street	High-Rise	SW Waterfront	370	Yes	Yes	Yes	No	N/A
Centr	al								
7	Capitol Crossing	High-Rise	East End	100	Yes	Yes	Yes	No	2020
Colur	nbia Heights/Shaw								
8	3212 Georgia Avenue	Mid-Rise	Park View	105	No	No	No	No	N/A
9	631 P Street	Mid-Rise	Shaw	59	No	No	No	No	Q3 2017
NoMa	/H Street								
10	Eckington Yards West	High-Rise	Eckington	465	Yes	Yes	Yes	No	Q2 2018
11	1124 Florida Avenue NE	Mid-Rise	H Street	52	No	No	No	No	N/A
12	1701 H Street	High-Rise	H Street	166	N/A	N/A	N/A	N/A	Q1 2018
13	NoMa Station II-IV	High-Rise	NoMa	700	No	No	No	No	N/A
14	Gallaudet	Mid-Rise	Union Market	1,800	No	No	No	No	2019
North	east								
15	McMillan Redevelopment	Mid-Rise	Bloomingdale	531	No	No	No	No	2017
16	680 Rhode Island - Ph. II	Mid-Rise	Brentwood	575	No	No	No	No	2022
17	680 Rhode Island - Ph. III	Mid-Rise	Brentwood	580	No	No	No	No	2026
River	East								
18	Barry Farm	Mid-Rise	Barry Farm	1,056	Yes	No	No	No	N/A
19	Parkside - Other Phases	Mid-Rise	Riverside Terrace	750	Yes	No	No	No	N/A
Uppe									,
	The Parks at Walter Reed	Mid-Rise	Brightwood	1,277	No	No	No	No	2018
Uppe			0						
	4000 Wisconsin Avenue NW	Mid-Rise	Tenleytown	650	N/A	N/A	N/A	N/A	N/A
			, .,		,	,	,	,	,

10,461

 $Note:\ Unless you\ provide\ data\ for\ this\ table, names\ of\ sponsors\ are\ no\ longer\ available\ to\ subscribers.\ If you\ provide\ data\ for\ this\ table\ and\ wish\ to\ know\ select$ $sponsors'\,names,\,e\text{-}mail\,your\,request\,to\,info@DeltaAssociates.com.$

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006. Phone: (202) 778-3100. Last Update: September 2017.

Total:

				TAB	LE 3.26			
			CL		ENT BUILDING SA	ALES		
				Washington M	letropolitan Area			
				2	016			
	COMPARABLE	CITY	STATE	DATE	# OF	YEAR	SALE PR	RICE
		0	0.7.12	OF SALE	UNITS	BUILT	TOTAL	PER UNIT
CLASS A L	OW-RISE							
1.	Comparable #1	Germantown	MD	1/16	544	1986	\$97,600,000	\$179,412
2.	Comparable #2	Woodbridge	VA	1/16	264	1986	\$57,586,566	\$218,131
3.	Comparable #3	Bowie	MD	1/16	478	1999	\$101,878,367	\$213,135
4.	Comparable #4	Largo	MD	1/16	242	2008	\$56,756,903	\$234,533
5.	Comparable #5	Waldorf	MD	1/16	491	2009	\$107,003,493	\$217,930
6.	Comparable #6	Alexandria	VA	3/16	240	2014	\$69,500,000	\$289,583
7.	Comparable #7	Leesburg	VA	3/16	108	2006	\$23,500,000	\$217,593
8.	Comparable #8	Fredericksburg	VA	3/16	314	2012	\$61,250,000	\$195,064
9.	Comparable #9	Alexandria	VA	3/16	290	2012	\$70,200,000	\$242,069
10.	Comparable #10	Ashburn	VA	6/16	630	2000	\$136,000,000	\$215,873
11.	Comparable #11	Hyattsville	MD	7/16	478	2008	\$110,000,000	\$230,126
12.	Comparable #12	Fredericksburg	VA	9/16	150	2001	\$23,750,000	\$158,333
13.	Comparable #13	Frederick	MD	9/16	297	2006	\$61,000,000	\$205,387
14.	Comparable #14	Germantown	MD	10/16	326	2001	\$70,300,000	\$215,644
15.	Comparable #15	Woodbridge	VA	11/16	420	2015	\$104,000,000	\$247,619
	Total/Average:				5,272		\$1,150,325,329	\$218,195
LASS A M	IID-RISE/HIGH-RISE							
1.	Comparable #1	Alexandria	VA	2/16	323	2014	\$108,300,000	\$335,294
2.	Comparable #2	Washington	DC	2/16	190	2004	\$119,000,000	\$626,316
3.	Comparable #3	Washington	DC	3/16	257	2012	\$94,875,000	\$369,163
4.	Comparable #4	Washington	DC	5/16	308	2008	\$81,200,000	\$263,636
5.	Comparable #5	Arlington	VA	5/16	300	2001	\$120,300,000	\$401,000
6.	Comparable #6	Bethesda	MD	6/16	359	2016	\$207,000,000	\$576,602
7.	Comparable #7	Washington	DC	9/16	141	2013	\$47,000,000	\$333,333
8.	Comparable #8	Arlington	VA	9/16	269	2009	\$102,000,000	\$379,182
9.	Comparable #9	Washington	DC	9/16	96	2016	\$53,560,000	\$557,917
10.	Comparable #10	Washington	DC	10/16	307	2016	\$160,000,000	\$521,173
	Total/Average:				2,550		\$1,093,235,000	\$428,720
	, ,							
	Grand Total/Average	:			7,822		\$2,243,560,329	\$286,827

Note: Delta Associates no longer provides the name of each project listed above except to appraisal clients of the firm and those who provide this type of transaction data to Delta. If you wish a list of project names and you qualify to receive same, email your request to: info@DeltaAssociates.com.

Source: Compiled by Delta Associates, 1717 K Street NW, Suite 1010, Washington, DC 20006.

TABLE 3.27 CLASS A APARTMENT BUILDING SALES

Washington Metropolitan Area

				2017 Throu	igh September			
	COMPARABLE	CITY	STATE	DATE	# OF	YEAR	SALE PR	ICE
	COMPARABLE	CITI	SIAIE	OF SALE	UNITS	BUILT	TOTAL	PER UNIT
CLASS A L	.OW-RISE							
1.	Comparable #1	Alexandria	VA	3/17	360	2007	\$91,500,000	\$254,167
2.	Comparable #2	Moorefield Station	VA	4/17	413	2009	\$96,000,000	\$232,446
3.	Comparable #3	North Bethesda	MD	6/17	386	2002	\$63,800,000	\$165,285
4.	Comparable #4	Southern Gateway	VA	6/17	476	1989	\$74,400,000	\$156,303
5.	Comparable #5	Southern Gateway	VA	6/17	200	1989	\$26,100,000	\$130,500
6.	Comparable #6	Woodbridge	VA	7/17	308	2015	\$75,800,000	\$246,104
	Total/Average:				2,143		\$427,600,000	\$199,533
CLASS A N	/IID-RISE/HIGH-RISE							
1.	Comparable #1	Beltsville	MD	2/17	433	2013	\$92,250,000	\$213,048
2.	Comparable #2	Arlington	VA	2/17	191	2014	\$90,000,000	\$471,204
3.	Comparable #3	Arlington	VA	2/17	187	2014	\$98,300,000	\$525,668
4.	Comparable #4	Alexandria	VA	3/17	264	2007	\$70,100,000	\$265,530
5.	Comparable #5	Arlington	VA	4/17	265	2016	\$143,000,000	\$539,623
6.	Comparable #6	Alexandria	VA	4/17	276	2013	\$100,500,000	\$364,130
7.	Comparable #7	Washington	DC	6/17	378	2015	\$114,142,948	\$301,965
8.	Comparable #8	Falls Church	VA	7/17	104	2014	\$43,000,000	\$413,462
9.	Comparable #9	Arlington	VA	8/17	404	1989	\$144,000,000	\$356,436
10.	Comparable #10	Rockville	MD	8/17	109	2008	\$28,600,000	\$262,385
11.	Comparable #11	Rockville	MD	8/17	241	2008	\$63,200,000	\$262,241
12.	Comparable #12	Rockville	MD	8/17	142	2008	\$37,200,000	\$261,972
	Total/Average:				2,994		\$1,024,292,948	\$342,115
	Constant American				E 40E		¢4 454 002 040	#202 C24
	Grand Total/Average	2:			5,137		\$1,451,892,948	\$282,634

Note: Delta Associates no longer provides the name of each project listed above except to appraisal clients of the firm and those who provide this type of transaction data to Delta. If you wish a list of project names and you qualify to receive same, email your request to: info@DeltaAssociates.com.

Source: Compiled by Delta Associates, 1717 K Street NW, Suite 1010, Washington, DC 20006.

	TABLE 3.28 SUMMARY OF MULTIFAMILY LAND SALES Washington Metropolitan Area 2016												
	COMPARABLE	CITY	STATE	DATE OF SALE	PARCEL SIZE (ACRES)	TOTAL # OF PLANNED UNITS	AFFORDABLE DWELLING UNITS (ADU's/MPDU's)	TOTAL SALES PRICE	SALE PRICE PER UNIT	SALE PRICE PER MARKET RATE UNITS ONLY	SALES PRICE PER GROSS SF		
LOW-RISE													
1.	Comparable #1	Reston	VA	9/16	5.0	457	0	\$30,250,000	\$66,193	\$66,193	\$139		
MID-RISE/I	HIGH-RISE												
1.	Comparable #1	Tysons Corner	VA	1/16	1.4	398	80	\$24,750,000	\$62,186	\$77,830	\$406		
2.	Comparable #2	Washington	DC	2/16	0.4	120	0	\$11,000,000	\$91,667	\$91,667	\$701		
3.	Comparable #3	Washington	DC	4/16	0.4	59	5	\$10,500,000	\$177,966	\$177,966	\$689		
4.	Comparable #4	Dulles Town Center	VA	6/16	N/A	650	78	\$14,600,000	\$22,462	\$25,524	N/A		
5.	Comparable #5	Bethesda	MD	6/16	0.2	58	8	\$4,650,000	\$80,172	\$93,000	\$562		
6.	Comparable #6	Washington	DC	7/16	2.0	800	0	\$63,500,000	\$79,375	\$79,375	\$729		
7.	Comparable #7	Washington	DC	8/16	0.4	112	0	\$9,700,000	\$86,607	\$86,607	\$557		
8	Comparable #8	Alexandria	VΔ	11/16	4.4	352	0	\$31,000,000	\$88,068	\$88,068	\$162		

Note: Delta Associates no longer provides the name of each project listed above except to appraisal clients of the firm and those who provide this type of transaction data to Delta. If you wish a list of project names and you qualify to receive same, email your request to: info@DeltaAssociates.com.

Source: Compiled by Delta Associates, 1717 K Street NW, Suite 1010, Washington, DC 20006.

	TARIE 3 20													
							TABLE 3.29							
							MULTIFAMILY LAND SALES							
							on Metropolitan Area							
							hrough September							
	COMPARABLE	CITY	STATE	DATE OF SALE	PARCEL SIZE (ACRES)	TOTAL # OF PLANNED UNITS	AFFORDABLE DWELLING UNITS (ADU's/MPDU's)	TOTAL SALES PRICE	SALE PRICE PER UNIT	SALE PRICE PER MARKET RATE UNITS ONLY	SALES PRICE PER GROSS SF			
LOW-RISE	DW-RISE													
1.	Comparable #1	McNair	VA	1/17	12.0	351	46	\$26,125,001	\$74,430	\$85,656	\$50			
2.	Comparable #2	Leesburg	VA	2/17	77.0	475	0	\$19,120,000	\$40,253	\$40,253	\$6			
3.	Comparable #3	Washington	DC	4/17	0.2	22	0	\$3,400,000	\$154,545	\$154,545	\$459			
4.	Comparable #4	Capitol Heights	MD	5/17	6.3	250	0	\$7,000,000	\$28,000	\$28,000	\$26			
5.	Comparable #5	Alexandria	VA	6/17	0.2	49	0	\$5,600,000	\$114,286	\$114,286	\$857			
MID-RISE/I	HIGH-RISE													
1.	Comparable #1	Washington	DC	1/17	0.5	72	0	\$7,150,000	\$99,306	\$99,306	\$328			
2.	Comparable #2	Reston	VA	3/17	2.0	260	0	\$11,000,000	\$42,308	\$42,308	\$126			
3.	Comparable #3	Washington	DC	5/17	14.7	422	0	\$66,000,000	\$156,398	\$156,398	\$103			
4.	Comparable #4	Silver Spring	MD	5/17	1.0	440	66	\$10,864,633	\$24,692	\$29,050	\$252			
5.	Comparable #5	Arlington	VA	6/17	0.8	365	0	\$23,500,000	\$64,384	\$64,384	\$658			
6.	Comparable #6	Rockville	MD	7/17	2.9	271	46	\$12,200,000	\$38,486	\$45,018	\$97			
7.	Comparable #7	Washington	DC	7/17	0.6	132	13	\$6,300,000	\$43,448	\$47,727	\$263			

Note: Delta Associates no longer provides the name of each project listed above except to appraisal clients of the firm and those who provide this type of transaction data to Delta. If you wish a list of project names and you qualify to receive same, email your request to: info@DeltaAssociates.com.

Source: Compiled by Delta Associates, 1717 K Street NW, Suite 1010, Washington, DC 20006.



TABLE 4.1 KEY MARKET INDICATORS FOR CLASS A RENTAL APARTMENTS

Selected Submarkets | Baltimore Metropolitan Area

				Third Qua	irter 2017		<u> </u>				
					SUBN	MARKET					BALTIMORE METRO
MARKET INDICATOR	HOWARD COUNTY/ COLUMBIA	N ANNE ARUNDEL COUNTY	ANNAPOLIS	SUBTOTAL- SOUTHERN SUBURBS	WEST & NW BALTIMORE COUNTY	EAST AND NE BALTIMORE COUNTY	HARFORD COUNTY	SUBTOTAL- NORTHERN SUBURBS	SUBTOTAL- BALTIMORE SUBURBS	BALTIMORE CITY	AREA TOTAL/AVERAGE
Number of Units Surveyed	4,667	6,339	1,659	12,665	4,638	3,140	1,808	9,586	22,251	8,382	30,633
Rent Levels (Avg. of All Unit Sizes)											
Face Rent	\$1,779	\$1,698	\$1,924	\$1,757	\$1,514	\$1,621	\$1,378	\$1,523	\$1,657	\$1,889	\$1,720
Concession as a % of Face Rents	1.6%	4.3%	1.1%	2.9%	1.9%	0.0%	0.7%	1.0%	2.1%	1.8%	2.0%
Effective Rent	\$1,750	\$1,625	\$1,902	\$1,707	\$1,485	\$1,621	\$1,369	\$1,508	\$1,621	\$1,855	\$1,685
Effective Rent per Square Foot	\$1.71	\$1.62	\$2.03	\$1.71	\$1.31	\$1.64	\$1.32	\$1.42	\$1.58	\$2.16	\$1.74
Annual Effective Rent Increase											
- Since 1998	3.9%	3.4%	4.3%	3.7%	3.3%	4.2%	3.4%	3.6%	3.7%	N/A	3.7%
- Since 9/30/12	1.6%	0.5%	3.1%	1.3%	1.7%	1.6%	2.8%	1.9%	1.5%	1.0%	1.4%
- Since 9/30/16 ²	-0.5%	-3.5%	-0.1%	-1.9%	-2.6%	-1.2%	2.4%	-1.2%	-1.6%	1.8%	-0.7%
Vacancy September 2017											
Overall ³	9.4%	9.9%	7.9%	9.5%	3.6%	5.6%	3.2%	4.2%	7.2%	15.2%	9.4%
Stabilized ⁴	5.0%	5.5%	5.1%	5.2%	3.6%	3.8%	3.1%	3.5%	4.5%	5.0%	4.6%
Vacancy September 2016											
Overall ³	3.3%	5.6%	1.5%	4.2%	2.8%	12.6%	5.9%	6.6%	5.2%	12.1%	7.1%
Stabilized ⁴	3.0%	4.8%	1.6%	3.7%	2.8%	1.9%	3.9%	2.7%	3.3%	5.5%	3.9%
Absorption Trends											
# of Market Rate Units Absorbed Over the Past 12 Months	221	588	121	930	(23)	339	50	366	1,296	757	2,053
For Comparison											
12-Month Period Ending 9/30/2016	433	318	61	812	2	171	269	442	1,254	754	2,008
Supply Projections											
# of Market Rate Units Under Construction & Available	1.886	658	329	2,873	0	732	10	742	3,615	4,620	8,235
Plus Planned for Delivery in the Next 36 Months 5	,			,				-	-,	,	
For Comparison											
at 9/30/2016	1,815	986	494	3,294	0	916	48	964	4,258	4,130	8,388

¹ Includes walk-up and elevator-served apartments of one to four stories with the exception of Baltimore City which includes high-rise structures.

 $^{^{2}}$ Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.

³ Includes actively marketing projects.

⁴ Excludes actively marketing projects.

⁵ See list of under construction and planned projects on Tables 4.5 and 4.6. Accounts for attrition. Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006.

TABLE 4.2

KEY MARKET INDICATORS FOR INVESTMENT GRADE CLASS A RENTAL APARTMENTS

Selected Submarkets | Baltimore City, Maryland ¹
Third Quarter 2017

	\$		
MARKET INDICATOR	DOWNTOWN	FELLS POINT/INNER HARBOR	BALTIMORE CITY TOTAL/AVERAGE
Number of Units Surveyed	5,311	3,071	8,382
Rent Levels (Avg. of All Unit Sizes)			
Face Rent	\$1,653	\$2,296	\$1,889
Concession as a % of Face Rents	2.1%	1.5%	1.8%
Effective Rent	\$1,619	\$2,262	\$1,855
Effective Rent per Square Foot	\$1.98	\$2.48	\$2.16
Annual Effective Rent Increase			
- Since 9/30/12	1.6%	-0.1%	1.0%
- Since 9/30/16 ²	-0.5%	5.9%	1.8%
Vacancy September 2017			
Overall ³	8.0%	27.7%	15.2%
Stabilized ⁴	6.1%	3.1%	5.0%
Vacancy September 2016			
Overall ³	14.7%	7.5%	12.1%
Stabilized ⁴	5.6%	5.4%	5.5%
Absorption Trends			
# of Market Rate Units Absorbed Over the Past 12	478	279	757
Months	170	277	737
For Comparison			
12-Month Period Ending 9/30/2016	763	(9)	754
Supply Projections			
# of Market Rate Units Under Construction & Available	2,549	2,071	4,620
Plus Planned for Delivery in the Next 36 Months ⁵	2,017	2,071	1,020
For Comparison			
at 9/30/2016	2,037	2,093	4,130

¹ Includes low-rise and garden style apartments, mid-rise apartments, high-rise apartments and warehouse conversions.

 $^{^{2}}$ Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.

 $^{^{\}rm 3}$ Includes actively marketing projects.

⁴ Excludes actively marketing projects.

⁵ See list of under construction and planned projects on Tables 4.5 and 4.6. Includes conversions. Accounts for attrition. Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006.

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BALTIMORE STATISTICAL REPORT

	TABLE 4.3 ABSORPTION SUMMARY ACTIVELY LEASING CLASS A APARTMENT PROJECTS												
		ABSURPTION SU			POLITAN ARE		NT PROJEC						
				hird Quart									
COMP.#	PROJECT NAME/LOCATION	TOTAL UNITS ¹	DATE LEASING BEGAN	DATE OF DELIVERY	UNITS ABSORBED	MON1 Q4' 16	THLY ABSORP Q1' 17	TION PACE PER 0 Q2' 17	QUARTER Q3' 17	OVERALL LEASE-UP PACE SINCE MARKETING BEGAN	CURRENT CONCESS. AS A % OF FACE RENT		
	LOW-RISE APARTMENTS							7					
1.	Winter's Run Bel Air, Maryland	288	1/16	4/16	278	(2)	4	6	5	14	4%		
2.	Alexan Concorde - Ph. I Linthicum. Maryland	310	8/16	8/16	233	18	8	18	20	18	17%		
3.	The Elms at Shannon's Glen Jessup, Maryland	364	11/16	11/16	268	55	2	45	24	27	N/A		
4.	Bluestream - Phase II Elkridge, Maryland	168	1/17	4/17	114	N/A			12	14	N/A		
5.	The Southerly Towson, Maryland	175	1/17	3/17	118	N/A			11	15	0%		
	MID-RISE APARTMENTS										9		
6.	Icon Residences at the Rotunda Baltimore, Maryland	379	3/16	3/16	332	63	2	13	(3)	18	0%		
7.	Avalon Hunt Valley Hunt Valley, Maryland	332	7/16	8/16	319	32	11	36	11	23	0%		
8.	The James Annapolis, Maryland	236	7/16	8/16	200	21	17	12	5	14	2%		
9.	Alta Wilde Lake Columbia, Maryland	230	8/16	10/16	165	2	2	15	16	13	2%		
10.	500 Park Baltimore, Maryland	153	2/17	6/17	100	N/A	4	11	21	14	0%		
11.	Banner Hill Baltimore, Maryland	349	4/17	7/17	24	N/A	N/A	3	6	5	4%		
12.	Calvert Street Lofts Baltimore, Maryland	56	4/17	9/17	10	N/A	N/A	2	3	2	N/A		
13.	The Residences at Annapolis Junction Annapolis Junction, Maryland	384	5/17	8/17	51	N/A	N/A	5	15	13	N/A		
14.	Flats @703 Towson, Maryland	105	5/17	9/17	34	N/A	N/A	 2	11	9	N/A		
15.	m.flats Downtown Columbia Columbia, Maryland	267	7/17	11/17	3	N/A	N/A	N/A	2	2	N/A		
16.	Hanover Cross Street Baltimore, Maryland	299	8/17	8/17	41	N/A	N/A	N/A	41	41	0%		

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		ABSORPTION SL	BALTIMO		ING CLASS A POLITAN ARE		ENT PROJEC	гѕ			
COMP.#	PROJECT NAME/LOCATION	TOTAL UNITS ¹	DATE LEASING BEGAN	DATE OF DELIVERY	UNITS ABSORBED			ION PACE PER Q2' 17	PACE SINCE		CURRENT CONCESS. AS A % OF FACE RENT
	HIGH-RISE APARTMENTS										
17.	10 Light Baltimore, Maryland	419	9/15	10/15	370	11	15	15	4	15	0%
18.	Anthem House Baltimore, Maryland	292	4/17	6/17	120	N/A	N/A	40	14	24	8%
19.	Lakehouse Columbia, Maryland	160	5/17	7/17	80	N/A	N/A	20	20	20	0%
20.	Highland Haus Apartments Baltimore, Maryland	65	7/17	9/17	10	N/A	N/A	N/A	5	5	N/A
21.	2 Hopkins Baltimore, Maryland	183	8/17	8/17	24	N/A	N/A	N/A	24	24	N/A
22.	The Arundel Hanover, Maryland	233	8/17	8/17	37	N/A	N/A	N/A	37	37	N/A
	at Third Quarter 2017	5,447			2,931					16	2%
	at Third Quarter 2016	3,575			1,816					15	3%

¹ Includes only market-rate units. ² Property did not participate in our suvey. Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006. Phone: (202) 778-3100. Last update: September 2017.

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TABLE 4.4 ABSORPTION SUMMARY RECENTLY STABILIZED APARTMENT PROJECTS

Owings N 2. 1901 We Annapoli 3. Crescent Baltimor 4. The Lodg Odenton 5. The Exca Pikesvill 6. Arbors a Hanover 7. The Zeni Baltimor 8. The Eden Baltimor 9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio Baltimor	JECT NAME/LOCATION	TYPE OF PROJECT	TOTAL UNITS ¹	DATE MARKETING BEGAN	DATE STABILIZED	OVERALL MONTHLY LEASE-UP PACE
2. 1901 We Annapoli 3. Crescent Baltimor 4. The Lodg Odenton 5. The Exca Pikesvill 6. Arbors a Hanover 7. The Zeni Baltimor 8. The Eden Baltimor 9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge, 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio Baltimor	enwich Place at Town Center	Low-Rise	332	6/06	6/09	9
Annapoli 3. Crescent Baltimor 4. The Lodg Odenton 5. The Exca Pikesvill 6. Arbors a Hanover 7. The Zeni Baltimor 8. The Eden Baltimor 9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge, 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio Baltimor	ngs Mills, Maryland			4/4		
3. Crescent Baltimor 4. The Lodg Odenton 5. The Exca Pikesvill 6. Arbors a Hanover 7. The Zeni Baltimor 8. The Eden Baltimor 9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge, 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio Baltimor	1 West	Mid-Rise	282	7/06	5/08	12
Baltimor 4. The Lodg Odenton 5. The Exca Pikesvill 6. Arbors a Hanover 7. The Zeni Baltimor 8. The Eder Baltimor 9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge, 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio	apolis, MD					
4. The Lodg Odenton 5. The Exca Pikesvill 6. Arbors a Hanover 7. The Zeni Baltimor 8. The Eden Baltimor 9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge, 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio	scent at Fells Point (Swan's Wharf)	Mid-Rise	252	7/06	11/08	9
Odenton The Exca Pikesvill Arbors a Hanover The Zeni Baltimor Regatta I Annapoli Ashbury Laurel, M Baltimor Say West Baltimor Laurel, M Annapoli Mariner Annapoli Annapoli Annapoli Ashbury Laurel, M Annapoli Annapoli Annapoli Annapoli Baltimor Annapoli Annapoli Baltimor Annapoli Annapoli Baltimor Annapoli Baltimor	imore, Maryland					
5. The Exca Pikesvill 6. Arbors a Hanover The Zeni Baltimor 8. The Eder Baltimor 9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio Baltimor	Lodge at Seven Oaks	Low-Rise	396	2/07	2/09	17
Pikesville 6. Arbors a Hanover 7. The Zeni Baltimor 8. The Eder Baltimor 9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio	nton, Maryland					
6. Arbors a Hanover 7. The Zeni Baltimor 8. The Eder Baltimor 9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio	Excalibur (frmly. Gallery at Avalon)	Low-Rise	147	3/07	6/09	5
7. The Zeni Baltimor 8. The Eder Baltimor 9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio	sville, Maryland					•
7. The Zeni Baltimor 8. The Eden Baltimor 9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge, 12. 39 West Baltimor 13. Elms at S Hanover, 14. Domain I Baltimor 15. Mariner Annapoli 16. Professio	ors at Arundel Preserve	Low-Rise	496	4/07	5/08	35 7 9
8. The Eder Baltimor 9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge, 12. 39 West Baltimor 13. Elms at S Hanover, 14. Domain I Baltimor 15. Mariner Annapoli 16. Professio	over, Maryland					
8. The Eder Baltimor 9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain I Baltimor 15. Mariner Annapoli 16. Professio Baltimor		High-Rise	191	5/07	8/09	7
9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge, 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain I Baltimor 15. Mariner Annapoli 16. Professio	imore, Maryland					
9. Regatta I Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge, 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio		Mid-Rise	270	5/07	11/09	9
Annapoli 10. Ashbury Laurel, M 11. Belmont Elkridge 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio	imore, Maryland					
10. Ashbury Laurel, M 11. Belmont Elkridge, 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio Baltimor		Low-Rise	194	7/07	5/08	18
Laurel, M 11. Belmont Elkridge, 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio Baltimor	apolis, Maryland					
11. Belmont Elkridge, 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio	bury Courts	Low-Rise	119	11/07	11/08	9
Elkridge, 12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio	rel, Maryland			40.40		
12. 39 West Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio Baltimor	nont Station	Low-Rise	177	12/07	8/08	20
Baltimor 13. Elms at S Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio Baltimor	idge, Maryland	W. 1. D.	101	1.100	0.44.0	
13. Elms at S Hanover 14. Domain B Baltimor 15. Mariner Annapoli 16. Professio Baltimor	Vest Lexington	High-Rise	181	1/08	8/10	26
Hanover 14. Domain Baltimor 15. Mariner Annapoli 16. Professio Baltimor	imore, Maryland		200	44.100	F /4.0	45
14. Domain Baltimor 15. Mariner Annapoli 16. Professio Baltimor	s at Stoney Run - Phase I	Low-Rise	280	11/08	5/10	15
Baltimor 15. Mariner Annapoli 16. Professio Baltimor	over, Maryland	Mr. I. Dr.	100	12/00	F /10	1.1
15. MarinerAnnapoli16. ProfessionBaltimore	nain Brewers Hill	Mid-Rise	180	12/08	5/10	11
Annapoli 16. Profession Baltimor	imore, Maryland	II. I D.	200	2 (00	0./10	11
16. Profession Baltimor	iner Bay at Annapolis Town Centre	High-Rise	208	2/09	8/10	11
Baltimor	apolis, Maryland	M: J D: -	00	2 /00	12/10	4
	Sessional Arts Building	Mid-Rise	90	2/09	12/10	4
	imore, Maryland	I D:	422	2 /00	2 /1 1	10
	Renaissance & Jazz at the Quarter	Low-Rise	432	3/09	3/11	18
	rson, Maryland	I D:	254	F (00	0./10	16
	niman Park at Elkridge Town Center idge, Maryland	Low-Rise	254	5/09	8/10	16

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TABLE 4.4 ABSORPTION SUMMARY RECENTLY STABILIZED APARTMENT PROJECTS

		Baitimore Metropolitan	Area 2000 - 2017			
COMP.#	PROJECT NAME/LOCATION	TYPE OF PROJECT	TOTAL UNITS ¹	DATE MARKETING BEGAN	DATE STABILIZED	OVERALL MONTHLY LEASE-UP PACE
19.	Towson Promenade	Low-Rise	376	5/09	9/11	14
	Towson, Maryland					
20.	Elms at Stoney Run - Phase Ii	Low-Rise	106	1/10	5/10	21
	Hanover, Maryland				0 .	
21.	The Fitzgerald	Mid-Rise	280	4/10	9/11	16
	Baltimore, Maryland					
22.	Palisades of Towson	Mid-Rise	357	8/10	12/12	13
	Towson, Maryland					
23.	The Reserve at Stoney Creek - Ph. I	Low-Rise	88	9/10	5/11	10
	Pasadena, Maryland					A
24.	Mission Place	Low-Rise	201	10/10	2/12	12
	Jessup, Maryland					
25.	Enclave at Emerson	Low-Rise	164	12/10	11/11	14
	Laurel, Maryland					
26.	Residences at Arundel Preserve	Mid-Rise	242	6/11	2/12	27
	Hanover, Maryland					
27.	The View at Mill Run	Low-Rise	375	6/11	12/13	13
	Owings Mills, Maryland					
28.	Arbors at Baltimore Crossroads	Low-Rise	365	8/11	5/14	11
	White Marsh, Maryland					
29.	McHenry Row	Mid-Rise	250	9/11	2/13	15
	Baltimore, Maryland					
30.	The Riverside Apartments	Low-Rise	212	4/12	2/13	21
	Aberdeen, Maryland					
31.	The Haven at Odenton Gateway	Low-Rise	252	4/12	6/13	18
	Odenton, Maryland					
32.	1111 Light Street	Mid-Rise	93	5/12	9/13	6
	Baltimore, Maryland					
33.	Orchard Meadows at North Ridge	Low-Rise	144	7/12	6/13	12
	Columbia, Maryland					
34.	1901 South Charles	Low-Rise	178	8/12	12/13	11
	Baltimore, Maryland					
35.	Groveton Green	Low-Rise	226	9/12	9/13	25
	Owings Mills, Maryland					
36.	Hanover Brewers Hill	Mid-Rise	440	12/12	8/15	14
	Baltimore, Maryland					

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TABLE 4.4 ABSORPTION SUMMARY RECENTLY STABILIZED APARTMENT PROJECTS

		Daitimore Metropolitan	711 Ca 2000 2017			
COMP.#	PROJECT NAME/LOCATION	TYPE OF PROJECT	TOTAL UNITS 1	DATE MARKETING BEGAN	DATE STABILIZED	OVERALL MONTHLY LEASE-UP PACE
37.	The Beacon at Waugh Chapel	Mid-Rise	298	1/13	2/15	12
	Crofton, Maryland			M 7		
38.	Union Wharf	Mid-Rise	281	1/13	2/16	7
	Baltimore, Maryland					
39.	The Palisades at Arundel Preserve	Mid-Rise	330	2/13	8/14	18
	Hanover, Maryland					
40.	Village at Odenton Station	Low-Rise	235	2/13	11/13	11
	Odenton, Maryland					
41.	Mill. No. 1	Low-Rise	84	3/13	8/14	5
	Baltimore, Maryland					A
42.	Crosswinds at Annapolis Town Center	Mid-Rise	215	4/13	11/14	11
	Annapolis, Maryland					
43.	Flats 170 at Academy Yard	Mid-Rise	369	4/13	2/15	17
	Odenton, Maryland					
44.	Brompton House	Low-Rise	254	5/13	8/14	17
	Elkridge, Maryland					
45.	521 St. Paul Street	Mid-Rise	69	8/13	5/14	8
	Baltimore, Maryland					
46.	Metro Crossing	Mid-Rise	250	8/13	3/15	13
	Owings Mills, Maryland					
47.	Verde at Howard Square	Mid-Rise	300	8/13	11/15	11
	Elkridge, Maryland					
48.	The Gunther	Mid-Rise	162	9/13	5/15	8
	Baltimore, Maryland					
49.	101 Ellwood	Mid-Rise	140	9/13	11/15	5
	Baltimore, Maryland					
50.	Marketplace at Fells Point	Mid-Rise	177	9/13	2/16	6
= 4	Baltimore, Maryland	2017	0.7	4.44	44.44	10
51.	301 N. Charles Street	Mid-Rise	97	1/14	11/14	10
F0	Baltimore, Maryland		222	4 /4 4	0./4.5	1.6
52.	Paragon at Columbia Overlook	Low-Rise	320	1/14	8/15	16
F2	Elkridge, Maryland	III I D	102	2/14	E /4 E	7
53.	The Lenore	High-Rise	102	2/14	5/15	7
E 4	Baltimore, Maryland	I D'	171	2/14	2/45	1.4
54.	520 Park	Low-Rise	171	3/14	3/15	14
	Baltimore, Maryland					

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TABLE 4.4 ABSORPTION SUMMARY RECENTLY STABILIZED APARTMENT PROJECTS

COMP.#	PROJECT NAME/LOCATION	TYPE OF PROJECT	TOTAL UNITS ¹	DATE MARKETING BEGAN	DATE STABILIZED	OVERALL MONTHLY LEASE-UP PACE
55.	Creekside Village Glen Burnie, Maryland	Low-Rise	208	3/14	2/15	19
56.	The Riverside Apartments II Aberdeen, Maryland	Low-Rise	188	4/14	2/16	8
57.	Jefferson Square at Washington Hill Baltimore, Maryland	Mid-Rise	304	6/14	5/16	13
58.	Algonquin Apartments Baltimore, Maryland	High-Rise	56	9/14	2/15	11
59.	The Metropolitan Downtown Columbia Columbia, Maryland	Mid-Riise	364	9/14	11/16	26
60.	The Winthrop Towson, Maryland	Mid-Rise	295	10/14	8/16	13
61.	Laurel Gardens Laurel, Maryland	Low-Rise	114	1/15	11/15	11
62.	The Equitable Building Baltimore, Maryland	High-Rise	189	1/15	5/16	11
63.	2 E. Wells Baltimore, Maryland	Mid-Rise	153	2/15	8/16	8
64.	Orchard Park Apartments - Addition Ellicott City, Maryland	Low-Rise	40	5/15	8/15	11
65.	26 Calvert Baltimore, Maryland	High-Rise	171	5/15	11/16	9
66.	111 Heath Lofts Baltimore, Maryland	Mid-Rise	59	7/15	11/15	9
67.	Woodfield Oxford Square Hanover, Maryland	Low-Rise	210	7/15	8/16	16
68.	Enclave at Box Hill Abingdon, Maryland	Low-Rise	240	8/15	8/16	19
69.	Remington Row Baltimore, Maryland	Mid-Rise	108	2/16	11/16	11

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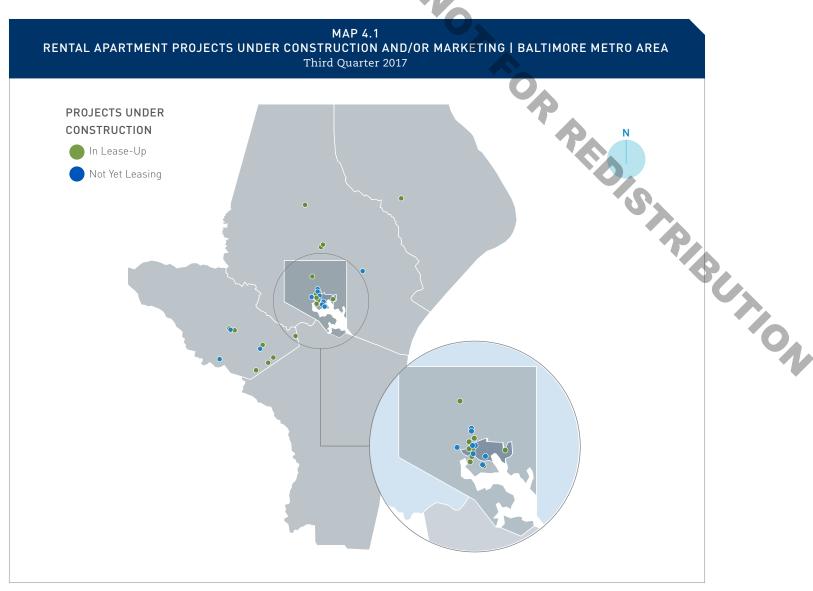
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TABLE 4.4 ABSORPTION SUMMARY RECENTLY STABILIZED APARTMENT PROJECTS

Baltimore Metropolitan Area | 2006 - 2017

COMP.#	PROJECT NAME/LOCATION	TYPE OF PROJECT	TOTAL UNITS ¹	DATE MARKETING BEGAN	DATE STABILIZED	OVERALL MONTHLY LEASE-UP PACE
70.	1305 Dock Street Baltimore, Maryland	High-Rise	103	3/16	11/16	12
71.	Creekstone Village - Phase II Pasadena, Maryland	Low-Rise	112	7/16	8/17	10
		Overall Total/Average (1996-Present):	26,051			13
		Those That Began Marketing in 2003: Total/Average:	711			13
		Those That Began Marketing in 2004: Total/Average:	730			11
		Those That Began Marketing in 2005: Total/Average:	1,741			12
		Those That Began Marketing in 2006: Total/Average:	866		179	10
		Those That Began Marketing in 2007: Total/Average:	1,990			13
		Those That Began Marketing in 2008: Total/Average:	641			15
		Those That Began Marketing in 2009: Total/Average:	1,360			13
		Those That Began Marketing in 2010: Total/Average:	1,196			14
		Those That Began Marketing in 2011: Total/Average:	1,232			14
		Those That Began Marketing in 2012: Total/Average:	1,545			14
		Those That Began Marketing in 2013: Total/Average:	3,164			10
		Those That Began Marketing in 2014: Total/Average:	2,105			14
		Those That Began Marketing in 2015: Total/Average:	1,176			12
		Those That Began Marketing in 2016: Total/Average:	323			12

 $^{^{1}}$ Includes market rate units only.



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TABLE 4.5 RENTAL APARTMENT PROJECTS UNDER CONSTRUCTION AND/OR MARKETING Baltimore Metropolitan Area Third Quarter 2017

			riiira Quarter 2017						
Project Name	Project Type	Location	Sponsor(s)	# of Mkt. Rate Units	# of Units Absorbed	# of Available Units	Date Pre-Lsg. Begins	Inital Occup. Date	Date Constr. Complete
Anne Arundel County									
1 Maris	Mid-Rise	Annapolis	Lennar	293	0	293	Q4 2017	Q4 2017	Q1 2018
2 The James	Mid-Rise	Annapolis	JLB Partners	236	200	36	7/2016	Q3 2016	Q4 2016
3 The Arundel	High-Rise	Hanover	Southern Management	233	37	196	8/2017	8/2017	10/2017
4 The Elms at Shannon's Glen	Low-Rise	Jessup	Elm Street Development	364	268	96	Q4 2016	10/2016	Q1 2017
5 Alexan Concorde - Ph. I	Low-Rise	Linthicum	Trammell Crow Residential	310	233	77	Q3 2016	8/2016	12/2016
Baltimore County									
6 Avalon Hunt Valley	Mid-Rise	Hunt Valley	AvalonBay	332	319	13	7/2016	8/2016	Q2 2017
7 Overlook at Franklin Square	Low-Rise	Rosedale	Klein Enterprises	356	0	356	Q4 2017	Q4 2017	12/2018
8 Flats @703	Mid-Rise	Towson	Federal Realty Investment Trust	105	34	71	Q2 2017	9/2017	8/2017
9 The Southerly	Low-Rise	Towson	Taylor Property Group, LLC	175	118	57	1/2017	3/2017	3/2017
Baltimore City									
10 1 Light Street	High-Rise	Downtown	J.J. Clarke Enterprises Inc.	262	0	262	Q2 2018	Q3 2018	Q3 2018
11 10 Light	High-Rise	Downtown	Metropolitan Partnership Ltd.	419	370	49	9/2015	10/2015	Q2 2016
12 2 Hopkins	High-Rise	Downtown	LIVEbe Communities	183	24	159	2017	Q3 2017	Q3 2017
13 225 N. Calvert Street	High-Rise	Downtown	Monument Realty	347	0	347	Q4 2017	Q4 2017	Q1 2018
14 Calvert Street Lofts	Mid-Rise	Downtown	Zahlco Development	56	10	46	4/2017	9/2017	Q3 2017
15 The Residences at 300 St. Paul Place	High-Rise	Downtown	NA	280	0	280	Q4 2017	Q1 2018	Q1 2018
16 Hanover Cross Street	Mid-Rise	Federal Hill	Hanover Development	299	41	258	Q3 2017	Q3 2017	Q2 2018
17 Liberty Harbor East	High-Rise	Fells Point	Bozzuto	282	0	282	Q2 2018	Q2 2018	Q3 2018
18 1405 Point	High-Rise	Harbor Point	Beatty Development	289	0	289	10/2017	1/2018	1/2018
19 Highland Haus Apartments	High-Rise	Highlandtown	Garver Development	65	10	55	7/2017	9/2017	9/2017
20 Anthem House	High-Rise	Locust Point	Bozzuto	292	120	172	4/2017	Q2 2017	7/2017
21 Anthem House II	Mid-Rise	Locust Point	Bozzuto	52	0	52	Q1 2018	Q1 2018	Q2 2018
22 Porter St. Apartments	Mid-Rise	Locust Point	Mark Sapperstein	223	0	223	Q4 2017	Q4 2017	Q4 2017
23 9 East Mount Royal	Mid-Rise	Mid-Town Belvedere	Zahlco Development	65	0	65	Q4 2018	Q1 2019	Q1 2019
24 500 Park	Mid-Rise	Mt. Vernon	The Time Group	153	100	53	2/2017	6/2017	Q2 2017
25 414 Light Street	High-Rise	Otterbein	Questar	394	0	394	Q1 2018	3/2018	Q3 2018
26 Banner Hill	Mid-Rise	Otterbein	ZOM	349	24	325	4/2017	7/2017	2/2018
27 CenterWest	Mid-Rise	Poppleton	La Cite Development	209	0	209	Q2 2018	Q3 2018	12/2018
28 Nelson Kohl Apartments	Mid-Rise	Station North	SA+A Development	103	0	103	Q4 2017	Q1 2018	Q1 2018
29 Icon Residences at the Rotunda	Mid-Rise	Wyman Park	Hekemian & Co. Inc.	379	332	47	3/2016	3/2016	Q2 2016
Harford County		·							·
30 Winter's Run	Low-Rise	Fallston	Klein Enterprises	288	278	10	1/2016	4/2016	Q3 2016
			•						

TABLE 4.5 RENTAL APARTMENT PROJECTS UNDER CONSTRUCTION AND/OR MARKETING Baltimore Metropolitan Area Third Quarter 2017 # of Mkt. Rate # of Units # of Available Date Pre-Lsg. Inital Occup. **Project Type** Location Sponsor(s) 31 The Residences at Annapolis Junction Mid-Rise Annapolis Junction Somerset Construction Co. 384 333 5/2017 8/2017 12/2017 32 Alta Wilde Lake Mid-Rise Columbia Wood Partners 230 165 65 8/2016 10/2016 Q4 2016 33 Lakehouse High-Rise Columbia Costello Construction 160 80 5/2017 7/2017 Q3 2017 34 m.flats Downtown Columbia Mid-Rise Columbia Kettler 267 3 7/2017 11/2017 1/2018 35 TEN.M Downtown Columbia Mid-Rise Columbia Kettler 170 1/2018 1/2018 10/2017 36 Bluestream - Phase II Low-Rise Elkridge Murn Development 168 114 1/2016 4/2017 6/2017 37 The Vine 240 240 Q2 2018 Mid-Rise Buchs Family LP Laurel 0 2018 2018 38 Verde II Mid-Rise Port Capital Drive Atapco 344 344 Q2 2019 Q3 2019 Q3 2019 Total: 9,356 2,931 6,425

Comparison to Prior Years Available Units in Projects Under Construction at:						
Date *	# Units					
9/2017	6,425					
12/2016	5,924					
12/2015	5,280					
12/2014	2,735					
12/2013	2,893					
12/2012	2,527					
12/2011	2,476					
12/2010	523					
12/2009	1,323					
12/2008	1,768					
12/2007	1,797					
12/2006	1,393					
12/2005	1,443					
12/2004	1,730					
12/2003	1,855					
12/2002	2,064					
12/2001	1,401					
12/2000	660					





Note: This table may include some projects listed on Table 4.3

^{*} Dates prior to 12/2015 exclude available units in projects under construction in Howard and Anne Arundel Counties.

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TABLE 4.6 RENTAL PROJECTS PLANNED TO DELIVER OVER THE NEXT 36 MONTHS Baltimore Metropolitan Area

Third Quarter 2017

	Project Name	Project Type	Location	# of Mkt. Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg. Pmts. Issued?	Est. Constr. Start Date
Ann	Arundel County								
1	Waugh Chapel - Ph II	Mid-Rise	Gambrills	244	Yes	Yes	Yes	No	Q4 2017
2	Academy Yards Phase II	Mid-Rise	Odenton	277	Yes	Yes	Yes	No	Q2 2018
3	Odenton Town Square - Phase I	Low-Rise	Odenton	305	No	No	No	No	Q3 2018
Balt	more County								
3	Towson Circle Redevelopment	Mid-Rise	Towson	371	No	No	No	No	Q4 2017
4	Greenleigh at Crossroads	Mid-Rise	White Marsh	300	Yes	Yes	N/A	No	Q4 2017
Balt	more City								
5	3400 Boston Street	Mid-Rise	Canton	244	No	No	No	No	3/2018
6	325 West Baltimore Street	High-Rise	Downtown	321	Yes	Yes	Yes	No	Q4 2017
7	Mechanic Centre - Phase I	High-Rise	Downtown	306	Yes	Yes	Yes	Yes	2017
8	The Hendler	Mid-Rise	Downtown	296	Yes	Yes	Yes	No	Q1 2018
9	Yard 56	Mid-Rise	Dundalk	200	Yes	Yes	No	No	2018
10	Bainbridge Federal Hill	Mid-Rise	Federal Hill	224	Yes	Yes	Yes	No	10/2017
11	Fox Industries Building	Low-Rise	Hampden	90	Yes	N/A	N/A	Yes	7/2017
12	Della Notte Restaurant Site	High-Rise	Little Italy	385	Yes	Yes	Yes	No	Q1 2018
13	The Overlook at Roland Park	Mid-Rise	Roland Park	148	Yes	Yes	Yes	Yes	2018
14	Jefferson Square at Washington Hill - Ph. II	Mid-Rise	Washington Hill	216	Yes	Yes	Yes	No	Q1 2018
15	The Woodberry	Mid-Rise	Woodberry	283	Yes	Yes	No	No	Q4 2017

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BALTIMORE STATISTICAL REPORT

TABLE 4.6 RENTAL PROJECTS PLANNED TO DELIVER OVER THE NEXT 36 MONTHS

Baltimore Metropolitan Area Third Quarter 2017

Project Name	Project Type	Location	# of Mkt. Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg. Pmts. Issued?	Est. Constr. Start Date
Howard County								
16 Merriweather District: The Crescent	Low-Rise	Downtown Columbia	350	No	No	No	No	Q4 2017
17 The Park at Locust Thicket	Mid-Rise	Elkridge	352	Yes	No	No	No	Q3 2017
18 Dartmoor Place Apartments	Mid-Rise	Hanover	258	Yes	Yes	No	No	Q4 2017
Total:	-	-	5,170	-	-	∅ /∧-	-	-
Total with Attrition:	-	-	1,810	-	-		-	-

Comparison to Prior Years Estimate of Next 18 - 36 Month Pipeline as of:							
Date	# Units						
9/2017	5,170						
12/2016	3,791						
12/2015	6,732						
12/2014	4,041						
12/2013	2,158						
12/2012	2,764						
12/2011	2,522						
12/2010	2,157						
12/2009	2,911						
12/2008	2,342						
12/2007	1,691						
12/2006	2,780						
12/2005	2,102						
12/2004	1,511						
12/2003	1,818						
12/2002	1,835						
12/2001	1,364						
12/2000	1,917						

^{*} Dates prior to 12/2015 exclude available units in projects under construction in Howard and Anne Arundel Counties.

Note: Projects planned to deliver their first units in the next 36 months. Probability of materialization is estimated using an attrition rate of 65% of total units planned. If we have missed your project, please contact us.

 $Note: \ Unless you\ provide\ data\ for\ this\ table, names\ of\ sponsors\ are\ no\ longer\ available\ to\ subscribers.\ If\ you\ provide\ data\ for\ this\ table\ and\ wish\ to\ know\ select$

 $sponsors'\,names,\,e\text{-}mail\,your\,request\,to\,info@DeltaAssociates.com.$

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BALTIMORE STATISTICAL REPORT

TABLE 4.7 SUMMARY OF LONGER-TERM PLANNED/RUMORED RENTAL APARTMENT PROJECTS Baltimore Metropolitan Area Third Quarter 2017

Project Name	Project Type	Location	# of Mkt Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg Pmts Issued?	Est. Constr. Start Date
Anne Arundel County								
1 Hanover Landing	Low-Rise	Hanover	613	No	No	No	No	N/A
2 Parkway Motel Site	Mid-Rise	Jessup	279	No	No	No	No	N/A
3 Concorde Circle - Ph. II	Low-Rise	Linthicum	300	No	No	No	No	N/A
Baltimore County								
4 Metro Center at Owings Mill - Add'l. Ph.	Low-Rise	Owings Mills	1,450	Yes	Yes	No	No	N/A
5 Towson Row	High-Rise	Towson	250	Yes	Yes	No	No	N/A
Baltimore City								
6 300 E. Pratt Street	High-Rise	Downtown	385	No	No	No	No	N/A
7 300 W. Baltimore Street	High-Rise	Downtown	175	No	No	No	No	N/A
8 Flour House Apartments	Mid-Rise	Downtown	175	Yes	No	No	No	N/A
9 Mechanic Centre - Phase II	High-Rise	Downtown	170	Yes	No	No	No	N/A
10 Shot Tower Metro	High-Rise	Downtown	226	No	No	No	No	N/A
11 Dock II	High-Rise	Federal Hill	345	Yes	No	No	No	N/A
12 Jackson's Wharf	Mid-Rise	Fells Point	207	Yes	Yes	Yes	No	N/A
13 103 S. Gay St	Mid-Rise	Inner Harbor	130	N/A	N/A	N/A	N/A	N/A
14 Whitehall Cotton Mill	Low-Rise	Jones Falls	27	No	No	No	No	N/A
15 814 N. Charles Street	High-Rise	Mt. Vernon	142	Yes	No	No	No	N/A
16 Five and Dime	Mid-Rise	West Side	300	Yes	Yes	Yes	No	N/A
17 University Lofts	High-Rise	West Side	230	N/A	N/A	N/A	N/A	N/A

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BALTIMORE STATISTICAL REPORT

TABLE 4.7

SUMMARY OF LONGER-TERM PLANNED/RUMORED RENTAL APARTMENT PROJECTS

Baltimore Metropolitan Area Third Quarter 2017

Project Name	Project Type	Location	# of Mkt Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg Pmts Issued?	Est. Constr. Start Date
Howard County								
18 Bluestream - Phase III	Low-Rise	Elkridge	950	Yes	Yes	No	No	N/A
19 Normandy Shopping Ctr. Redev.	Low-Rise	Ellicott City	200	Yes	No	No	No	N/A
20 Oxford Square - Ph. IV	Mid-Rise	Hanover	258	Yes	Yes	No	No	N/A
21 Ashbury Courts - Phase II	Low-Rise	Laurel	140	Yes	No	No	No	N/A
22 Laurel Park Station	Mid-Rise	Laurel	31	Yes	Yes	No	No	N/A
						97		
Total:	-	-	6,983	-	-	- /	-	-

Comparative Longer Term Pipeline For Market Rate Apartments as of:						
Date	# Units					
9/2017	6,983					
12/2016	9,234					
12/2015	9,234					
12/2014	6,440					
12/2013	6,667					
12/2012	3,768					
12/2011	4,568					
12/2010	3,147					
12/2009	3,102					
12/2008	3,742					
12/2007	2,796					
12/2006	2,299					
12/2005	3,942					
12/2004	3,079					
12/2003	2,121					
12/2002	2,984					
12/2001	3,461					
12/2000	2,750					

^{*} Dates prior to 12/2015 exclude available units in projects under construction in Howard and Anne Arundel Counties.

Note: Unless you provide data for this table, names of sponsors are no longer available to subscribers. If you provide data for this table and wish to know select sponsors' names, e-mail your request to info@DeltaAssociates.com.

TABLE 4.8 SUMMARY OF PROJECTS PLANNED EITHER AS CONDOMINIUM OR RENTAL

Baltimore Metropolitan Area Third Quarter 2017

Project Name	Project Type	Location	# of Mkt Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg Pmts Issued?	Est. Constr. Start Date
Anne Arundel County								
1 Cedar Hill - Phase II	Low-Rise	Brooklyn	160	Yes	Yes	No	No	N/A
2 Patapsco Place	TH-Style	Brooklyn Park	135	Yes	Yes	Yes	No	N/A
3 Arundel Gateway	Low-Rise & TH	Laurel	1,410	No	No	No	No	N/A
4 Odenton Town Square - Phase II	Low-Rise	Odenton	400	No	No	No	No	N/A
5 Odenton Town Square - Phase III	Mid-Rise	Odenton	96	No	No	No	No	N/A
Baltimore County						9 %		
6 Cowenton South	Low-Rise	Perry Hall	373	Yes	Yes	Yes	No	N/A
Baltimore City								
7 HarborView South	High-Rise	Federal Hill	750	No	No	No	No	N/A
8 Harbor Point - later phases	Mid-Rise	Inner Harbor	600	Yes	No	No	No	N/A
Total:	-	-	3,924	-	-	-		-

Note: Unless you provide data for this table, names of sponsors are no longer available to subscribers. If you provide data for this table and wish to know select sponsors' names, e-mail your request to info@DeltaAssociates.com.

TABLE 4.9 CLASS A APARTMENT BUILDING SALES

Baltimore Metropolitan Area

				2	016			
	COMPARABLE	CITY	STATE	DATE	# OF	YEAR	SALE PR	RICE
	CONFARABLE	OILI	SIAIE	OF SALE	UNITS	BUILT	TOTAL	PER UNIT
ASS A L	OW-RISE					7		
1.	Comparable #1	Laurel	MD	1/16	75	2014	\$16,400,000	\$218,667
2.	Comparable #2	Owings Mills	MD	1/16	174	2002	\$34,125,000	\$196,121
3.	Comparable #3	Parkville	MD	1/16	69	1984	\$11,580,000	\$167,826
4.	Comparable #4	Parkville	MD	4/16	189	1984	\$32,770,000	\$173,386
5.	Comparable #5	Annapolis	MD	4/16	158	2000	\$30,100,000	\$190,506
6.	Comparable #6	Elkridge	MD	4/16	634	1989	\$119,450,000	\$188,407
7.	Comparable #7	White Marsh	MD	4/16	212	1991	\$37,450,000	\$176,651
8.	Comparable #8	Glen Burnie	MD	6/16	352	2000	\$64,781,144	\$184,037
9.	Comparable #9	Elkridge	MD	8/16	320	2014	\$86,000,000	\$268,750
10.	Comparable #10	Owings Mills	MD	9/16	520	1993	\$91,000,000	\$175,000
11.	Comparable #11	Owings Mills	MD	9/16	226	2013	\$51,250,000	\$226,770
12.	Comparable #12	Owings Mills	MD	10/16	324	2002	\$61,600,000	\$190,123
	Total/Average:				3,253		\$636,506,144	\$195,667
LASS A N	MID-RISE/HIGH-RISE							
1.	Comparable #1	Baltimore	MD	3/16	73	1930	\$26,800,000	\$367,123
2.	Comparable #2	Baltimore	MD	9/16	440	2013	\$141,928,000	\$322,564
	Total/Average:				513		\$168,728,000	\$328,904
	Grand Total/Average	:			3,766		\$805,234,144	\$213,817
	, , ,				,			, -,-

Note: Delta Associates no longer provides the name of each project listed above except to appraisal clients of the firm and those who provide this type of transaction data to Delta. If you wish to obtain a list of project names and you qualify to receive same, email your request to: info@DeltaAssociates.com.

Source: Compiled by Delta Associates, 1717 K Street NW, Suite 1010, Washington, DC 20006.

TABLE 4.10 CLASS A APARTMENT BUILDING SALES

Baltimore Metropolitan Area

2017 Through September										
	COMPARABLE	CITY	STATE DATE		# OF YEAR		SALE PR	ICE		
	COMFARABLE	OILI	SIAIL	OF SALE	UNITS	BUILT	TOTAL	PER UNIT		
CLASS A L	OW-RISE					7				
1.	Comparable #1	Hanover	MD	2/17	248	2014	\$65,700,000	\$264,919		
2.	Comparable #2	Odenton	MD	3/17	298	2013	\$83,650,000	\$280,705		
3.	Comparable #3	Odenton	MD	6/17	212	2016	\$50,200,000	\$236,792		
4.	Comparable #4	Owings	MD	7/17	348	1999	\$64,800,000	\$186,207		
5.	Comparable #5	Laurel	MD	8/17	119	2008	\$28,000,000	\$235,294		
	Total/Average:				1,225		\$292,350,000	\$238,653		
CLASS A N	IID-RISE/HIGH-RISE									
1.	Comparable #1	Baltimore	MD	6/17	304	2015	\$73,300,000	\$241,118		
	Total/Average:				304		\$73,300,000	\$241,118		
Grand Total/Average:				1,529		\$365,650,000	\$239,143			

Note: Delta Associates no longer provides the name of each project listed above except to appraisal clients of the firm and those who provide this type of transaction data to Delta. If you wish to obtain a list of project names and you qualify to receive same, email your request to: info@DeltaAssociates.com.

Source: Compiled by Delta Associates, 1717 K Street NW, Suite 1010, Washington, DC 20006.



TABLE 5.1 KEY MARKET INDICATORS FOR CLASS A RENTAL APARTMENTS

Summary | Philadelphia Metropolitan Area Third Quarter 2017

MARKET INDICATOR	SUBURBAN SOUTHERN PENNSYLVANIA NEW JERSEY		SUBTOTAL- PHILADELPHIA SUBURBS	CITY OF PHILADELPHIA	PHILADELPHIA METRO AREA TOTAL/AVERAGE	
Number of Units Surveyed	12,039	3,769	15,808	9,013	24,821	
Rent Levels (Avg. of All Unit Sizes)						
Face Rent	\$1,673	\$1,583	\$1,652	\$2,369	\$1,912	
Concession as a % of Face Rents	1.7%	0.1%	1.4%	4.9%	3.0%	
Effective Rent	\$1,644	\$1,581	\$1,629	\$2,253	\$1,856	
Effective Rent per Square Foot	\$1.67	\$1.56	\$1.65	\$2.51	\$1.96	
Annual Effective Rent Increase						
- Since 9/30/12	2.9%	2.7%	2.9%	1.6%	2.4%	
- Since 9/30/16 ¹	2.9%	3.1%	3.0%	0.5%	2.1%	
Vacancy September 2017						
Overall ²	7.5%	1.3%	6.0%	14.1%	8.9%	
Stabilized ³	3.6%	1.3%	3.0%	2.2%	2.7%	
Vacancy September 2016						
Overall ²	10.6%	1.9%	8.6%	16.4%	11.4%	
Stabilized ³	2.2%	1.9%	2.1%	2.4%	2.2%	

¹ Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.

² Includes actively marketing projects.

³ Excludes actively marketing projects.

TABLE 5.2 KEY MARKET INDICATORS FOR CLASS A LOW-RISE RENTAL APARTMENTS 1

Selected Submarkets | Suburban Pennsylvania Third Quarter 2017

		SUBMARKET	A	SUBURBAN PENNSYLVANIA TOTAL/AVERAGE	
MARKET INDICATOR	MONTGOMERY COUNTY	DELAWARE & CHESTER COUNTIES	BUCKS COUNTY		
Number of Units Surveyed	5,359	4,957	1,723	12,039	
Rent Levels (Avg. of All Unit Sizes)				0,7	
Face Rent	\$1,715	\$1,643	\$1,628	\$1,673	
Concession as a % of Face Rents	2.2%	1.5%	1.1%	1.7%	
Effective Rent	\$1,678	\$1,619	\$1,610	\$1,644	
Effective Rent per Square Foot	\$1.72	\$1.63	\$1.65	\$1.67	
Annual Effective Rent Increase					
- Since 9/30/12	3.1%	3.0%	2.2%	2.9%	
- Since 9/30/16 ²	2.4%	1.3%	9.4%	2.9%	
Vacancy September 2017					
Overall ³	10.1%	5.6%	4.5%	7.5%	
Stabilized ⁴	4.4%	3.4%	1.4%	3.6%	
Vacancy September 2016					
Overall ³	14.3%	10.0%	1.3%	10.6%	
Stabilized ⁴	2.7%	2.2%	1.1%	2.2%	

¹ Includes walk-up and elevator-served apartments of one to four stories.

² Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.

³ Includes actively marketing projects.

⁴ Excludes actively marketing projects.

TABLE 5.3 KEY MARKET INDICATORS FOR CLASS A LOW-RISE RENTAL APARTMENTS 1

Selected Submarkets | Southern New Jersey and Mercer County
Third Quarter 2017

MARKET INDICATOR	SU	BMARKET	SOUTHERN MEW JERSEY	MERCER COUNTY	
MARKET INDICATOR	CAMDEN COUNTY	BURLINGTON COUNTY	TOTAL/AVERAGE		
Number of Units Surveyed	2,074	1,695	3,769	1,929	
Rent Levels (Avg. of All Unit Sizes)			9		
Face Rent	\$1,664	\$1,485	\$1,583	\$1,893	
Concession as a % of Face Rents	0.1%	0.1%	0.1%	0.2%	
Effective Rent	\$1,662	\$1,483	\$1,581	\$1,889	
Effective Rent per Square Foot	\$1.62	\$1.50	\$1.56	\$1.80	
Annual Effective Rent Increase					
- Since 9/30/12	2.5%	3.0%	2.7%	3.0%	
- Since 9/30/16 ²	4.2%	1.9%	3.1%	1.8%	
Vacancy September 2017					
Overall ³	1.6%	0.9%	1.3%	2.3%	
Stabilized ⁴	1.6%	0.9%	1.3%	2.3%	
Vacancy September 2016					
Overall ³	2.8%	1.3%	1.9%	3.6%	
Stabilized ⁴	2.8%	1.3%	1.9%	3.6%	

¹ Includes garden and low-rise style apartments, mid-rise apartments, high-rise apartments, and warehouse conversions.

² Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.

³ Includes actively marketing projects.

⁴ Excludes actively marketing projects.

TABLE	5.4
KEY MARKET INDICATORS FOR CLASS	A RENTAL HIGH-RISE APARTMENTS
City of Phila	ndelphia
Third Quart	ter 2017

MARKET INDICATOR	CITY OF PHILADELPHIA			
Number of Units Surveyed	9,013			
Rent Levels (Avg. of All Unit Sizes)				
Face Rent	\$2,369			
Concession as a % of Face Rents	4.9%			
Effective Rent	\$2,253			
Effective Rent per Square Foot	\$2.51			
Annual Effective Rent Increase				
- Since 1988	3.1%			
- Since 9/30/12	1.6%			
- Since 9/30/16 ¹	0.5%			
Vacancy September 2017				
Overall ²	14.1%			
Stabilized ³	2.2%			
Vacancy September 2016				
Overall ²	16.4%			
Stabilized ³	2.4%			
Absorption Trends				
# of Market Rate Units Absorbed Over the Past 12 Months	1,588			
For Comparison				
12-Month Period Ending 9/30/2016	997			
Supply Projections				
# of Market Rate Units Under Construction & Available	4,319			
Plus Planned for Delivery in the Next 36 Months 4	7,317			
For Comparison				
at 9/30/2016	4,509			

¹ Excludes projects that were not actively marketing at date of previous survey, i.e. same project/unit price comparison.

² Includes actively marketing projects.

³ Excludes actively marketing projects.

⁴ See list of under construction and planned projects on Tables 5.7 and 5.8. Accounts for attrition. Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006. Phone: (202) 778-3100. Last Update: September 2017.

TABLE 5.5 ABSORPTION SUMMARY ACTIVELY MARKETING RENTAL APARTMENT PROJECTS City of Philadelphia | Third Quarter 2017

COMP.#	PROJECT NAME	TOTAL UNITS ¹	UNITS ABSORBED ¹	DATE MARKETING BEGAN	OVERALL MONTHLY LEASE-UP PACE
1.	The Griffin	217	198	1/16	10
2.	AKA University City	105	69	6/16	5
3.	Dalian on the Park	293	203	8/16	16
4.	Divine Lorraine	101	49	8/16	4
5.	North by Northwest - The North Building	270	100	9/16	8
6.	Hanover North Broad	339	98	1/17	12
7.	Bridge	131	55	2/17	8
8.	Vue 32	164	54	5/17	14
9.	1213 Walnut	322	48	8/17	48
10.	Lyndon at the Curtis	63	18	9/17	36
	Total/Average:	2,005	892		10

¹ Includes market rate units only.

TABLE 5.6 ABSORPTION SUMMARY

RECENTLY STABILIZED APARTMENT PROJECTS

City of Philadelphia | Third Quarter 2012 - Third Quarter 2017

COMP.#	PROJECT NAME	TOTAL UNITS ¹	DATE MARKETING BEGAN	DATE STABILIZED	OVERALL MONTHLY LEASE-UP PACE
1.	The Arch	111	7/12	2/13	16
2.	2040 Market Street	282	8/12	6/13	26
3.	Tower Place - Phase I	204	12/12	5/15	7
4.	2116 Chestnut Street	321	2/13	2/15	13
5.	Goldtex Building	163	3/13	2/15	7
6.	The Sansom	104	4/13	2/14	10
7.	320 Walnut	77	5/13	11/13	13
8.	The Granary	227	5/13	11/14	12
9.	Icon	206	11/13	5/15	11
10.	Station at Manayunk	149	1/14	8/15	8
11.	Southstar Lofts	79	2/14	2/15	6
12.	Croydon Hall	127	4/14	2/15	12
13.	1900 Arch	246	4/14	2/15	24
14.	31 Brewerytown	64	8/14	8/15	5
15.	AQ Rittenhouse	110	12/14	5/16	6
16.	3737 Chestnut	276	2/15	8/16	15
17.	Avenir on Fifteenth	180	3/15	8/16	11
18.	The Shirt Corner	59	5/15	11/15	10
19.	3601 Market Street	363	5/15	2/17	17
20.	1900 Arch - Phase II	55	6/15	2/16	7
21.	Mural Lofts	56	7/15	8/16	4
22.	1919 Market Street	321	2/16	5/17	21
23.	The Fairmount at Brewerytown	161	4/16	5/17	12
24.	The Collins Apartments	112	5/16	11/16	16
25.	One Water Street	235	7/16	5/17	21
26.	The Annex	36	2/17	8/17	6
	Total/Average:	4,324			12

¹ Includes market rate units only.

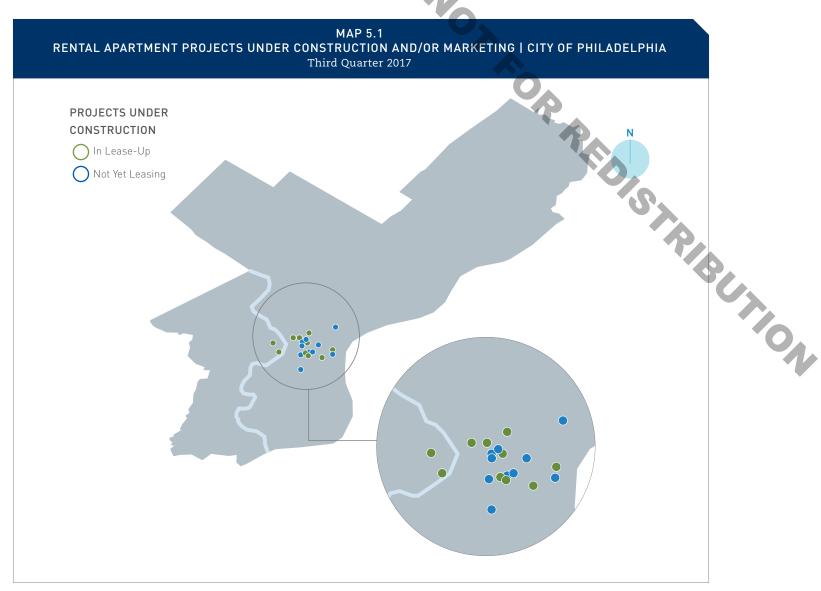


TABLE 5.7 RENTAL APARTMENT PROJECTS UNDER CONSTRUCTION AND/OR MARKETING City of Philadelphia Third Quarter 2017

Project Name	Project Type	Location	Sponsor(s)	# of Mkt. Rate Units	# of Units Absorbed	# of Available Units	Date Pre-Lsg. Begins	Inital Occup. Date	Date Constr. Complete
				Omio			Dogino	Buto	Complete
1 Lincoln Square	High-Rise	Avenue of the Arts	Alterra Property Group	322	0	322	Q3 2018	Q3 2018	12/2018
2 North by Northwest - The North Building	High-Rise	Callowhill	Forest City	286	100	186	9/2016	11/2016	Q4 2016
3 The Alexander	High-Rise	Callowhill	Property Reserve, Inc	258	0	258	Q4 2017	Q4 2017	Q4 2017
4 Eastern Tower	High-Rise	Chinatown	Philadelphia Chinatown Development	119	0	119	Q2 2019	Q3 2019	Q3 2019
5 Franklin Tower Residences	High-Rise	Logan Square	PMC Property Group	360	0	360	Q3 2017	Q3 2017	Q3 2017
6 Hanover North Broad	Mid-Rise	Logan Square	Hanover Development	339	98	241	1/2017	1/2017	Q4 2017
7 1213 Walnut	High-Rise	Market East	The Goldenberg Group	322	48	274	Q3 2017	Q3 2017	Q4 2017
8 The Griffin	High-Rise	Market East	MRP Realty	217	198	19	1/2016	4/2016	Q2 2016
9 Bridge	High-Rise	Old City	Brown Hill Development	131	55	76	Q1 2017	4/2017	Q3 2017
10 The National	Mid-Rise	Old City	Buccini/Pollin Group	192	0	192	Q2 2018	Q2 2018	Q2 2018
11 The Beacon	High-Rise	Rittenhouse	Pearl Properties	100	0	100	Q4 2017	Q4 2017	Q1 2018
12 Dalian on the Park	High-Rise	Rodin Square	Dalian Development	293	203	90	Q3 2016	9/2016	Q4 2016
13 Liberty Square	Mid-Rise	South Kensington	Blackstone Development	201	0	201	2018	2018	2018
14 Divine Lorraine	High-Rise	Spring Garden	EB Realty Management Corp.	101	49	52	Q3 2016	1/2017	4/2017
15 The Hamilton Phase I	High-Rise	Spring Garden	Radnor Property Group	279	0	279	2/2018	8/2018	Q3 2018
16 AKA University City	High-Rise	University City	Brandywine Realty Trust	105	69	36	6/2016	Q2 2017	Q2 2017
17 Vue32	High-Rise	University City	Radnor Property Group	164	54	110	Q2 2017	7/2017	Q3 2017
18 Lyndon at the Curtis	High-Rise	Washington Square	Scully Company	63	18	45	9/2017	10/2017	12/2017
19 East Market - Phase II	High-Rise	Washington Square West	National Real Estate Advisors	240	0	240	Q2 2018	Q2 2018	Q3 2018
20 The Ludlow	High-Rise	Washington Square West	National Real Estate Advisors	321	0	321	Q4 2017	Q4 2017	Q4 2017
Total:	-	-	-	4,413	892	3,521	-	-	

TABLE 5.8 RENTAL PROJECTS PLANNED TO DELIVER OVER THE NEXT 36 MONTHS

City of Philadelphia Third Quarter 2017

	Project Name	Project Type	Location	# of Mkt. Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg. Pmts. Issued?	Est. Constr. Start Date
1	9th and Washington	Mid-Rise	Bella Vista	78	No	No	No	No	Q4 2017
2	Graduate Square	Mid-Rise	Grays Ferry	64	Yes	Yes	Yes	Yes	11/2016
3	Edgewater - Ph. II	High-Rise	Logan Square	240	Yes	Yes	Yes	No	2018
4	River Walk - Phase I	High-Rise	Logan Square	321	Yes	Yes	No	No	Q4 2017
5	MIC Tower	High-Rise	Market East	342	Yes	Yes	Yes	No	N/A
6	Penn's Point Riverside	Mid-Rise	Northern Liberties	169	Yes	Yes	Yes	No	Q4 2017
7	Spring Garden View	Mid-Rise	Northern Liberties	30	Yes	Yes	No	No	2017
8	401 Race	Low-Rise	Old City	216	Yes	Yes	No	No	N/A
9	1911 Walnut	High-Rise	Rittenhouse Square	299	Yes	Yes	No	No	N/A
10	Dwell at 2nd Street - Ph. I	Mid-Rise	South Kensington	210	Yes	Yes	Yes	No	Q1 2018
11	The Hamilton Phase II	High-Rise	Spring Garden/Logan Square	311	Yes	Yes	Yes	No	Q1 2020
	Total:	-	-	2,280	-	-	-		
	Total with Attrition:	-	-	798	-	-	-		

Note: Projects planned to deliver their first units in the next 36 months. Probability of materialization is estimated using an attrition rate of 65% of total units planned. If we have missed your project, please contact us. Note: Names of sponsors are no longer available to subscribers, unless you provide data for this table. If you provide data for this table and wish to know select sponsors' names, e-mail your request to info@DeltaAssociates.com.

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006. Phone: (202) 778-3100. Last Update: September 2017.

TABLE 5.9 SUMMARY OF LONGER-TERM PLANNED/RUMORED RENTAL APARTMENT PROJECTS City of Philadelphia Third Quarter 2017

	Project Name	Project Type	Location	# of Mkt Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg Pmts Issued?	Est. Constr. Start Date
1	Broad & Washington	Mid-Rise	Avenue of the Arts	800	Yes	No	No	No	N/A
2	709 Chestnut Street	High-Rise	Center City	304	Yes	Yes	No	No	N/A
3	Ridge Flats	Mid-Rise	East Falls	206	N/A	N/A	N/A	N/A	N/A
4	The Ridge Flats	Mid-Rise	East Falls	206	Yes	Yes	No	No	N/A
5	1421 East Columbia Avenue	Mid-Rise	Fishtown	54	No	No	No	No	N/A
6	Edward Corner Building	High-Rise	Fishtown	180	Yes	Yes	No	No	N/A
7	2100 Hamilton	High-Rise	Logan Square	120	No	No	No	No	N/A
8	River Walk - Phase II	High-Rise	Logan Square	291	Yes	Yes	No	No	N/A
9	Artisan Lofts	High-Rise	LoMo	151	Yes	Yes	Yes	No	N/A
10	Pier 12	Mid-Rise	Old City	120	No	No	No	No	N/A
11	Pincus Bro. Maxwell Building	Mid-Rise	Old City	70	No	No	No	No	N/A
12	Renaissance Plaza	High-Rise	Old City	1,350	Yes	Yes	Yes	Yes	N/A
13	George W. Childs Elementary	Low-Rise	Pointe Breeze	63	Yes	Yes	No	No	N/A
14	The Heid Building	Mid-Rise	Poplar	96	N/A	N/A	N/A	N/A	11/2018
15	3750 Lancaster Avenue	Mid-Rise	Powelton Village	300	No	No	No	No	N/A
16	19th + Chestnut	High-Rise	Rittenhouse Square	250	No	No	No	No	N/A
17	2012 Chestnut St.	High-Rise	Rittenhouse Square	160	N/A	N/A	N/A	N/A	N/A
18	Soko Lofts	Mid-Rise	South Kensington	320	Yes	Yes	Yes	Yes	N/A
19	1401 S. Columbus Blvd	Mid-Rise	South Philadelphia	435	No	No	No	No	N/A
20	2401 Washington Avenue	Mid-Rise	South Philadelphia	113	Yes	No	No	No	N/A
21	Liberty on the River - Phase I	High-Rise	South Philadelphia	264	Yes	Yes	Yes	No	N/A
22	Tower Place - Ph. II	High-Rise	Spring Garden	150	No	No	No	No	N/A
23	4125-23 Chestnut	Mid-Rise	Spruce Hill	130	N/A	N/A	N/A	N/A	N/A
24	4224 Baltimore Avenue	Mid-Rise	University City	132	Yes	Yes	Yes	No	N/A
25	4400 Chestnut	Mid-Rise	Walnut Hill	150	No	No	No	No	N/A
26	Quaker Building	High-Rise	West Poplar	350	N/A	N/A	N/A	N/A	N/A
	Total:	•	-	6,765					

Note: Names of sponsors are no longer available to subscribers unless they provide data for this table. If you provide data for this table and wish to know select sponsors' names, e-mail your request to info@DeltaAssociates.com.

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006. Phone: (202) 778-3100. Last Update: September 2017.

TABLE 5.10 SUMMARY OF PROJECTS PLANNED EITHER AS CONDOMINIUM OR RENTAL City of Philadelphia

Third Quarter 2017

	Project Name	Project Type	Location	# of Mkt Rate Units	Proper Zoning?	Initial Approvals?	Site Plan Approved	Bldg Pmts Issued?	Est. Constr. Start Date
1	Front & Richmond	High-Rise	Fishtown	124	Yes	No	No	No	N/A
2	Penn's Point	High-Rise	Fishtown	535	Yes	No	No	No	N/A
3	Festival Pier	High-Rise	Penn's Landing	550	N/A	N/A	N/A	N/A	N/A
4	19th & Walnut	High-Rise	Rittenhouse Square	300	No	No	No	No	N/A
5	Penn's Landing Tower	High-Rise	South Philadelphia	230	Yes	Yes	Yes	No	N/A
6	Independence Pointe	Mid-Rise	Tacony	1,200	No	No	No	No	N/A
	Total:	-	-	2,939			9		

Note: Names of sponsors are no longer available to subscribers unless they provide data for this table. If you provide data for this table and wish to know select sponsors' names, e-mail your request to info@DeltaAssociates.com.

Source: Compiled by Delta Associates, 1717 K Street, NW, Suite 1010, Washington, DC 20006. Phone: (202) 778-3100. Last Update: September 2017.

TABLE 5.11 CLASS A APARTMENT BUILDING SALES

Philadelphia Metropolitan Area

					2016				
	COMPARABLE	CITY	STATE	DATE	# OF	YEAR	SALE PRICE		
	COWFARABLE	CITT	STATE	OF SALE	UNITS	BUILT	TOTAL	PER UNIT	
CLASS A L	OW-RISE					7			
1.	Comparable #1	Burlington	NJ	1/16	163	1980	\$17,300,000	\$106,135	
2.	Comparable #2	Concord	PA	4/16	280	2003	\$66,100,000	\$236,071	
3.	Comparable #3	Royersford	PA	7/16	216	2009	\$37,500,000	\$173,611	
4.	Comparable #4	West Chester	PA	9/16	242	1992	\$51,000,000	\$210,744	
	Total/Average:				901		\$171,900,000	\$190,788	
CLASS A N	IID-RISE/HIGH-RISE						4		
1.	Comparable #1	Philadelphia	PA	2/16	302	1983	\$65,400,000	\$216,556	
	Total/Average:				302		\$65,400,000	\$216,556	
								Ø,	
	Grand Total/Average	e:			1,203		\$237,300,000	\$197,257	

Note: Delta Associates no longer provides the name of each project listed above except to appraisal clients of the firm and those who provide this type of transaction data to Delta. If you wish to obtain a list of project names and you qualify to receive same, email your request to: info@DeltaAssociates.com.

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Phone: (202) 778-3100. Last update: September 2017.

TABLE 5.12 CLASS A APARTMENT BUILDING SALES

Philadelphia Metropolitan Area

2017 Through September								
	COMPARABLE	CITY	STATE	DATE	# OF	YEAR	SALE PRICE	
	COMPARABLE	OITT	SIAIL	OF SALE	UNITS	BUILT	TOTAL	PER UNIT
CLASS A L	OW-RISE							
1.	Comparable #1	Exton	PA	2/17	405	1996	\$102,700,000	\$253,580
2.	Comparable #2	Conshohocken	PA	3/17	41	1983	\$6,400,000	\$156,098
3.	Comparable #3	Limerick	PA	5/17	198	1999	\$36,300,000	\$183,333
4.	Comparable #4	Conshohocken	PA	6/17	310	2017	\$27,188,636	\$87,705
	Total/Average:				954		\$172,588,636	\$180,911
CLASS A N	MID-RISE/HIGH-RISE							
1.	Comparable #1	Plymouth Meeting	PA	1/17	398	2015	\$201,000,000	\$505,025
2.	Comparable #2	Philadelphia	PA	7/17	276	2015	\$118,000,000	\$427,536
	Total/Average:				674		\$319,000,000	\$473,294
	Grand Total/Average	e:			1,628		\$491,588,636	\$301,959

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METHODOLOGY AND GLOSSARY

Market Area Coverage

Delta Associates currently surveys Class A garden and high-rise apartment units in 49 submarkets in the Mid-Atlantic Region. The maps on the following pages depict the geographic areas covered in this report.

Delta Associates collects data on a majority of the Class A product in each covered submarket. A total of approximately 700 properties are surveyed by Delta Associates at the close of each quarter – accounting for approximately 130,000 units. This is believed to be approximately 85% of the estimated 153,000 Class A units existing in the Washington region as of this publication date.

Product Definition

"Class A" product is defined by Delta Associates generally as built in 1991 or later and offering a separate clubhouse, decorated model units, two bedroom/ two bath units, and a large community amenity package most often including a fitness center and swimming pool. The tenant pays gas and/or electric in addition to telephone and cable television. The projects are typically 200+ units except in submarkets where quality product is scarce.

Stabilized Vacancy

"Stabilized Vacancy" as used herein is the rate of "available units" in stabilized properties. Once a property achieves 95% occupancy, it is considered "stabilized" and satys in our pool of stabilized properties even if it falls below 95% at a subsequent reporting date.

We obtain information on "available units" when conducting our surveys. Obtaining the information this way may produce several important differences from "vacancy" as reported in financial statements. Simply stated, the difference can be characterized as:

- Delta's: Available units to lease
- Financial statement: Economic vacancy

The number of "available units" is understated compared to "economically vacant" by our exclusion of units occupied by non-paying tenants and those not available for lease, such as employee units and model apartments. We estimate that this reduces our "available units" (vacancy rate) estimate by about 100 to 150 basis points. Our vacancy is also understated compared to financial reporting by our exclusion of economically vacant, on-notice units for which a lease to occupy in the future has been signed. We estimate that this reduces our vacancy rate estimate by another 150 to 200 basis points.

Introduction of New, Actively Marketing Units

New communities are added to submarket surveys as soon as they begin preleasing units. The overall current asking and effective rents and rents per square foot of gross leasable area include these new communities. However, in comparing current quarter rents to previous year rents, these new communities are excluded until they have been marketing for one full year. This is done so as to dilute the impact on rent rate increases often associated with newly introduced product.

Face Rent

Face rent is the asking rent for each unit, excluding any concessions or rent specials given. Delta Associates quotes the weighted average asking base rent for each sub-market – the asking rent for a first floor unit without any premiums for fireplaces, views, etc.

Effective Rent

Effective rent deducts from face rent any concessions or rent specials for any unit type offered at a surveyed project. Typically, concessions are used selectively to lease weaker floor plans or surplus units.

Overall Vacancy

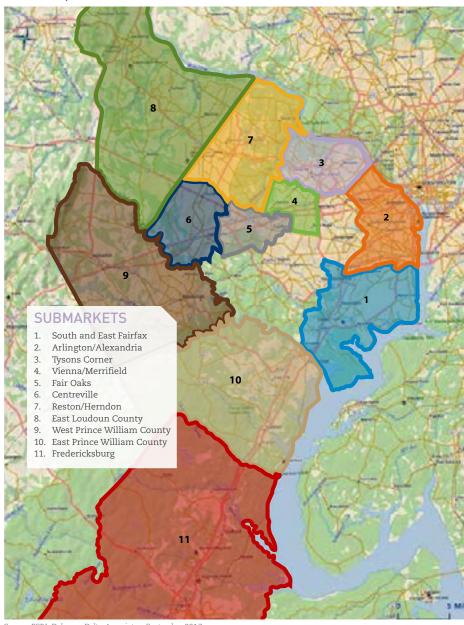
"Overall vacancy" is defined to include all physically vacant, unrented units in all projects surveyed, including those in actively marketing communities. Therefore, the overall vacancy figures include new, unrented units still in initial lease-up.

Planning Pipeline

The planning pipeline includes projects in the advanced planning stages. This pipeline, as defined here, does not include all projects being planned. To be included on this list, a planned community typically would have financing and approvals in place. Some communities are included if Delta Associates feels that financing and/or site plan approval are imminent, and are so noted.

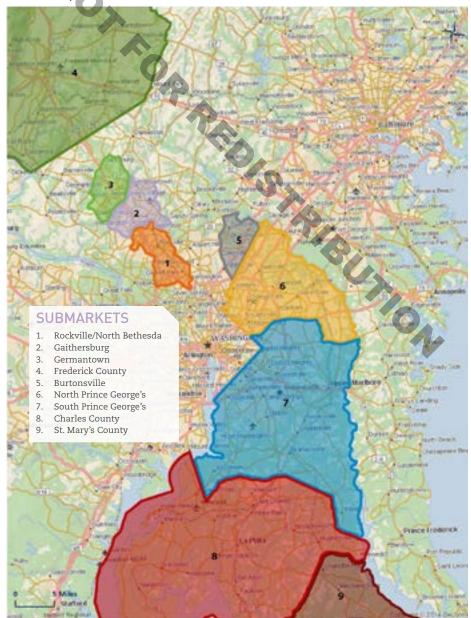
NORTHERN VIRGINIA

Low-Rise Apartment Submarkets



Source: ESRI, Delorme, Delta Associates; September 2017

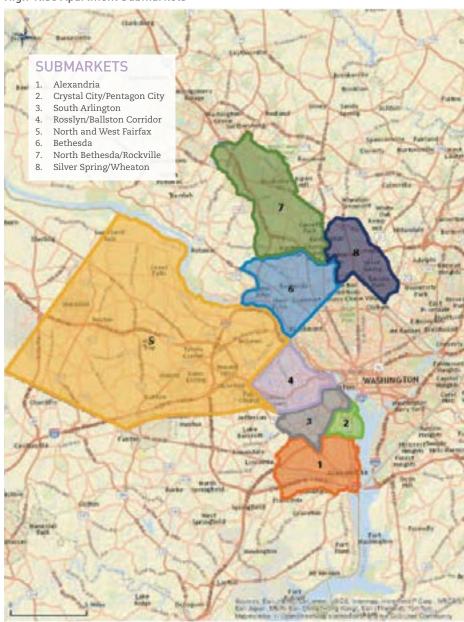
SUBURBAN MARYLAND Low-Rise Apartment Submarkets



Source: ESRI, Delorme, Delta Associates; September 2017

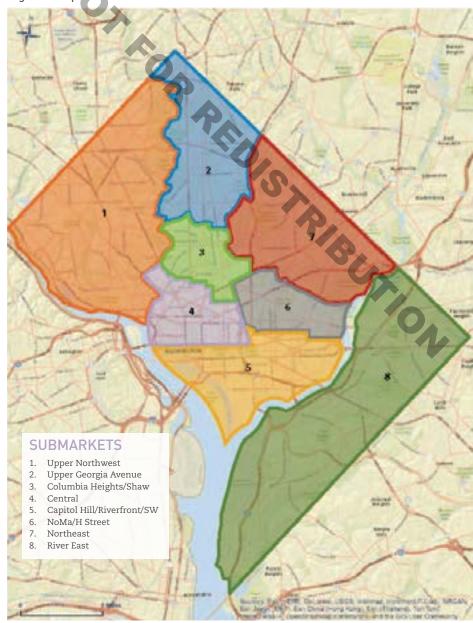
VIRGINIA AND MARYLAND

High-Rise Apartment Submarkets



Source: ESRI, Delorme, Delta Associates; September 2017

DISTRICT OF COLUMBIA High-Rise Apartment Submarkets



Source: ESRI, Delorme, Delta Associates; September 2017

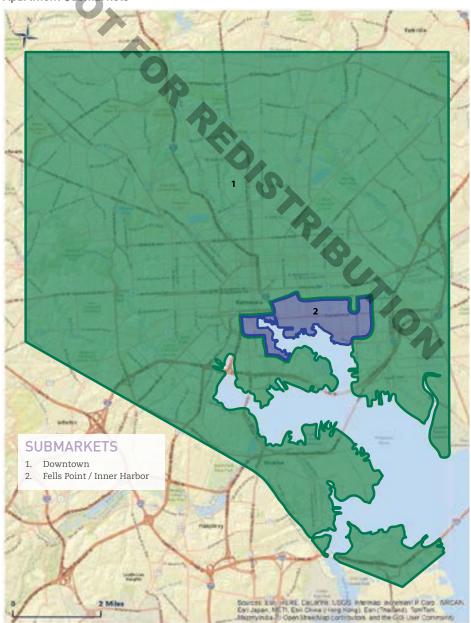
SUBURBAN BALTIMORE

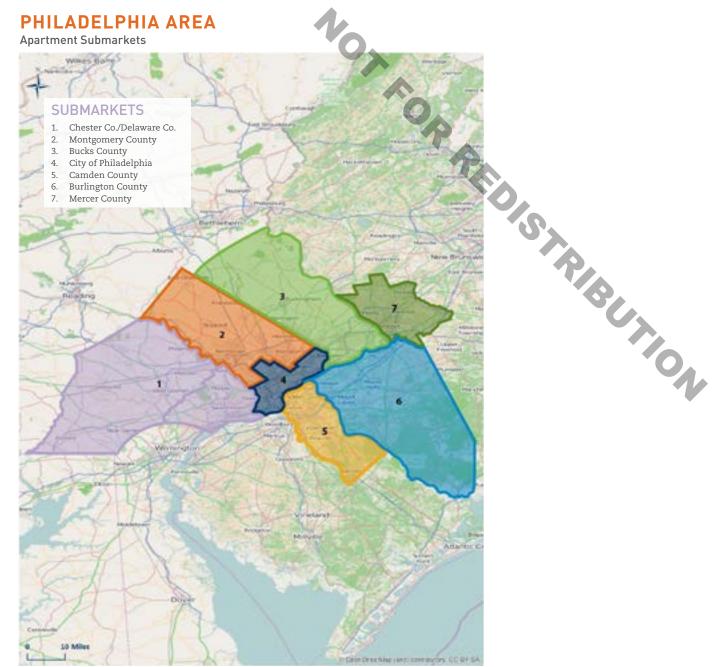
Apartment Submarkets



Source: ESRI, Delorme, Delta Associates; September 2017

BALTIMORE CITY Apartment Submarkets





Source: ESRI, Delorme, Delta Associates; September 2017

PHOTOGRAPHY CREDITS

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MILL CREEK
RESIDENTIAL TRUST

Avenir Place, Vienna, VA

Delta Associates' 2014 Winner of Best Best Lease-Up Pace for a Northern Virginia Apartment Community

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THE BAINBRIDGE COMPANIES

Bainbridge Shady Grove Metro, Rockville, MD

Delta Associates' 2016 Winner of Best Lease-Up Pace For A Suburban Maryland Apartment Community

[PAGE 33]

THE JBG COMPANIES

Notch 8, Alexandria, VA

Delta Associates' 2016 Winner of Best Washington/Baltimore Apartment Community

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THE BOZZUTO GROUP

Enclave at Box Hill, Abingdon, MD

Delta Associates' 2014 Winner of Best Lease-Up Pace For A Baltimore Apartment Community

