Appendix A
DEMOGRAPHIC ANALYSIS

# Demographic Analysis: Population

The Blacksburg MSA is projected to add roughly 4,000 residents over the next five years. Given shifting demographics and preferences, downtown and close-in neighborhoods can be positioned to capture a greater share of regional growth than in recent decades.

Household data indicates an inclination in the market area toward multifamily housing. As the chart at bottom right shows, the number of persons per household in Downtown is low relative to regional figures. This is due to the relatively high percentages of singles and childless couples who are more likely to rent or live in multifamily housing than the general population; thus there is likely to be an amply deep market for housing in Downtown, provided a suitable environment is created and effectively marketed.

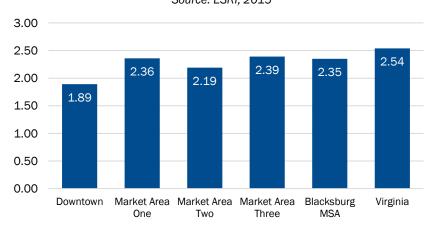
Five-year population projections indicate that all three market areas, as well as the MSA and state, will experience steady population growth. However, Downtown Blacksburg is estimated to capture only about 2.5 percent of the growth in Market Area One and less than one percent of the growth in the MSA. These numbers demonstrate that there is substantial opportunity for Downtown to increase its residential population with the right housing developments.

#### **Demographic Trends**

Description	Downtown	Market Area One	Market Area Two	Market Area Three	Blacksburg MSA	Virginia
Population						
2019 Projection	661	35,377	8,609	8,887	186,369	8,690,202
2014 Estimate	642	34,627	8,538	8,427	182,353	8,275,961
2010 Census	627	34,281	8,529	7,971	178,237	8,001,024
Annual Growth 2014-2019	0.6%	0.4%	0.2%	1.1%	0.4%	1.0%
Annual Growth 2010-2014	0.6%	0.3%	0.0%	1.4%	0.6%	0.8%

© ESRI, 2015

#### Average Persons Per Household Source: ESRI, 2015



# Demographic Analysis: Income

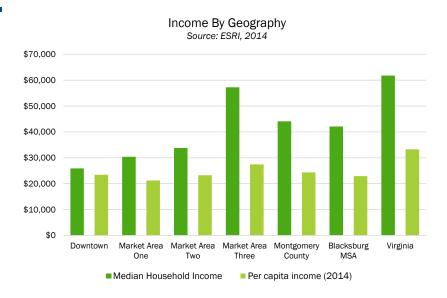
Relative to regional averages, Downtown Blacksburg has a low per capita income, which is explained by the large presence of students. The same is true of Market Areas One and Two, which cover most of the Town of Blacksburg, even though those areas contain the highest concentrations of wealth. Market Area Three, which has been identified as having less expensive and more desirable housing stock for professionals working in Blacksburg, has a high per capita and median household income as compared to the region.

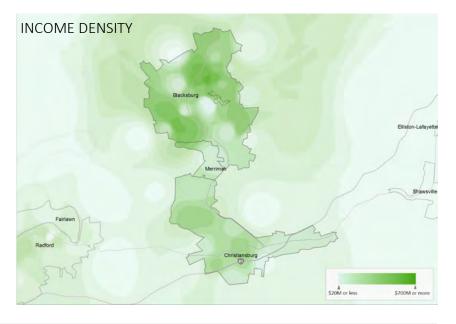
#### Median Household Income

With a median income of \$25,908 and a per capita income of \$23,454, households in Downtown earn less than those in the region (\$42,100 and \$22,909, respectively). This is explained by the higher proportion of students living in Downtown housing. Incomes in Market Areas One and Two are also low compared to the region, which can also be attributed to the high percentage of student residents throughout the Town of Blacksburg. By contrast, Market Area Three has a high median income and per capita income as compared to the region (\$57,243 and \$27,400, respectively). Many professionals in Blacksburg have identified Market Area Three–located south of Blacksburg—as an area where they can find housing at their desired quality and price.

#### Income Density

The map at above right shows income density, which measures aggregate income per square mile. As the map shows, the heaviest concentration of wealth in the Blacksburg area are within the town boundaries, to the north, southwest, and southeast of Downtown. Income density in Downtown itself is moderate as compared to other parts in the region. One opportunity for Downtown is to capture more residents similar to those in the more affluent neighborhoods, thus increasing income density and opportunities for neighborhood retail services.





# Demographic Analysis: Age Cohorts

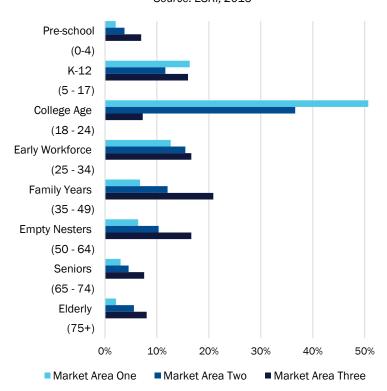
As would be expected in a university town, the market areas around Virginia Tech's campus—Downtown and Market Area One—trend young. However, this areas also have a relatively low number of residents in their early workforce years, as well as empty nesters, which are favorable demographics for downtown housing. The current age distribution in the market areas demonstrates that there is an opportunity to attract more diverse age cohorts to Downtown and the surrounding area.

The average resident in Downtown is 23 years old, similar to the median age in Market Areas One and Two but significantly younger than residents in Market Area Three, where the median age is 37 years old. As the chart on top right indicates, Downtown and Market Area One have a very high proportion of College Age residents (ages 18-24), driven by the fact that most student housing is located in these areas.

At the same time, just 12 percent of Downtown residents and 13 percent of residents in Market Area One are in the Early Workforce cohort, while Market Areas Two and Three have higher proportions of this group. Demographic research for downtown areas indicates that, along with the College Age group, this demographic group is more inclined to live in a downtown than the general population. They are also more inclined to accept or desire multifamily housing, since people in this age bracket are more likely to be single and/or childless. If the right housing products were available, it is likely that the proportion of this group in Downtown and surrounding area would increase.

Empty nesters (50-64) are one of the smallest cohorts in Downtown and in Market Area One, while they make up 17 percent of residents in Market Area Three. This group also typically provides demand for downtown housing and there is potential to attract them from the more suburban surroundings of Market Area Three to live in Downtown.

# Percentage of Population by Age Cohort Source: ESRI. 2015



# Demographic Analysis: Housing

The high home values of for-sale housing Downtown points to two conclusions: A market for high-end housing does exist and too much emphasis on high price points has led to the exclusion of modestly priced units that would appeal to a broader market.

Occupancy of housing is somewhat lower in Downtown (85 percent) compared to the three market areas (94 percent). This is likely attributable to the obsolescence of some housing and the high cost of other properties, as opposed to a lack of desirability of location. Development Strategies' survey of competitive downtown housing indicated occupancy rates above 90 percent.

Not surprisingly, the Downtown and surrounding Market Areas One and Two have very little single-family housing—an unlikely product type, given the high land costs which do not facilitate low density development. While Market Area Three more single-family housing than Downtown, it also has a lower proportion of single-family housing relative to the region, indicating a market that is more open to alternative housing formats.

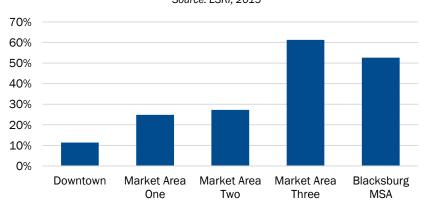
High rates of homeownership are sometimes mistakenly associated with increased property values, yet analysis of median home values tells a different story. Downtown and Market Areas One and Two have a relatively low homeownership rate compared with the overall region, but have median home values that are significantly higher than Market Area Three and the MSA. Downtown, which has the lowest rate of owner-occupied housing, has the highest median home value, although this can be somewhat misleading, as most of the owner-occupied housing currently in Downtown is new and targeted to higher income groups. In fact, it is a conclusion of this study that past housing efforts that have exclusively targeted affluent residents have been limiting in attracting downtown residents, since a deeper pool exists for more modestly priced units.

#### Household Overview

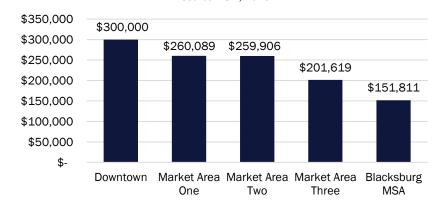
		Market	Market	Market	Blacksburg
Description	Downtown	Area One	Area Two	Area Three	MSA
Occupancy Rate	85%	94%	94%	94%	89%
% Detached SF Homes	21%	30%	23%	49%	59%
% Family Households	18%	31%	36%	63%	57%

© ESRI, 2015

Percent Homeownership Source: ESRI, 2015

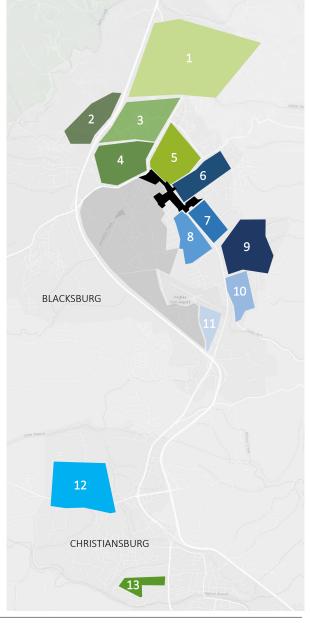


Median Home Values Source: ESRI, 2015



Appendix B NEIGHBORHOOD PROFILES

	Neighborhoods	Median House Price Range	Average Size (Sq Ft)	Median Year Built
1	Mount Tabor	\$231,000 - \$407,000	2600	2006
2	Village at Tom's Creek	\$295,000 - \$382,000	2451	2006
3	Patrick Henry	\$163,000 - \$295,000	1859	1995
4	McBryde	\$191,000 - \$291,000	2094	1963
5	Bennett Hill	\$135,000-\$271,000	1754	1960
6	Eastside	\$203,000-\$290,000	2010	1973
7	Mountain View	\$201,000 - \$245,000	2119	2001
8	Miller Southside	\$243,000 - \$527,000	2779	1957
9	Grissom/ Highland	\$219,000 - \$363,000	2528	1968
10	Ellett/ Jennelle	\$152,000 - \$197,000	1621	1985
11	Knollwood	\$182,000-\$245,000	1810	2000
12	New River Mall	\$173,000 - \$211,000	2000	2005
13	Oak Tree	\$138,000 - \$160,000	1629	2000



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Predominant Housing Type Single-Family

Median House Price Range \$231,000-\$407,000

Average Size (Square Feet) 2,600

Median Year Built 2006

Median Condo Price Range \$171,000-\$175,000

Average Size (Square Feet) 1,800

Median Year Built 2009

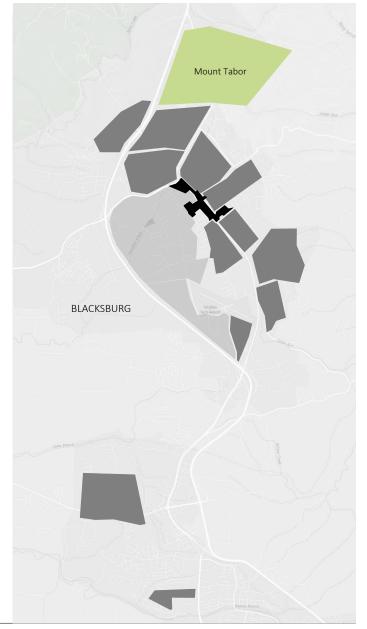
Major Condo Communities Mount Tabor Village

Average One-Bedroom Rent N/A

Average Two-Bedroom Rent N/A

Average Three-Bedroom Rent N/A

Selected Rental Properties N/A



# Village at Tom's Creek

Predominant Housing Type Single-Family

Median House Price Range \$295,000-\$382,000

Average Size (Square Feet) 2,451

Median Year Built 2006

Median Condo Price Range N/A

Average Size (Square Feet) N/A

Median Year Built N/A

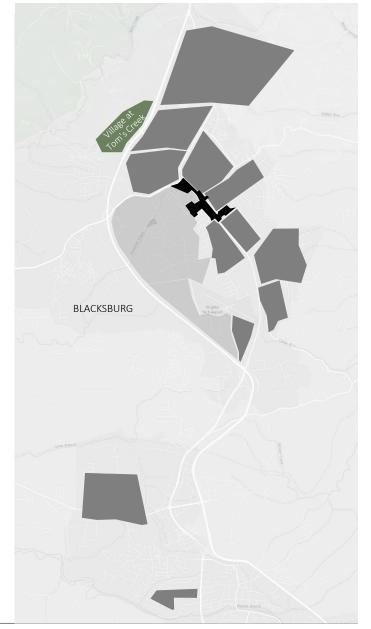
Major Condo Communities N/A

Average One-Bedroom Rent N/A

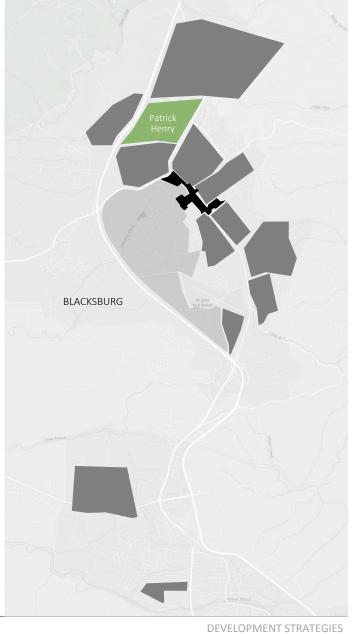
Average Two-Bedroom Rent N/A

Average Three-Bedroom Rent N/A

Selected Rental Properties N/A



Patricl	k Henry
Predominant Housing Type	Condos; Townhomes; Apartment Rentals
Median House Price Range	\$163,000-\$295,000
Average Size (Square Feet)	1,859
Median Year Built	1995
Median Condo Price Range	\$117,000-\$162,000
Average Size (Square Feet)	1,115
Median Year Built	1990
Major Condo Communities	University Terrace
Average One-Bedroom Rent	\$855
Average Two-Bedroom Rent	\$1,000
Average Three-Bedroom Rent	\$1,290
Average Four-Bedroom Rent	\$1,500-\$1,900
Selected Rental Properties	Hunters Ridge, Village at Blacksburg,



McBryde	
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Predominant Housing Type Single-Family

Median House Price Range \$191,000-\$291,000

Average Size (Square Feet) 2,094

Median Year Built 1963

Median Condo Price Range \$75,000-\$85,000

Average Size (Square Feet) 760

Median Year Built 1970

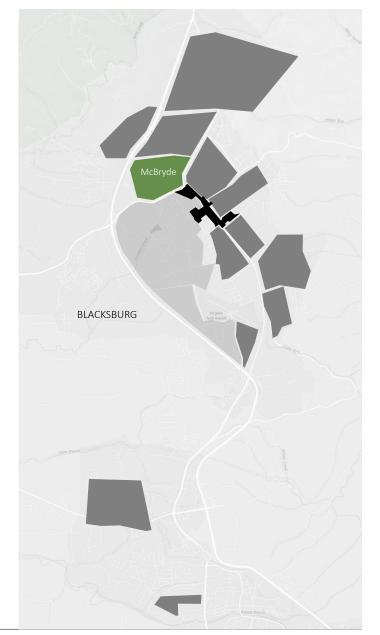
Major Condo Communities Park Place

Average One-Bedroom Rent N/A

Average Two-Bedroom Rent N/A

Average Three-Bedroom Rent N/A

Selected Rental Properties N/A



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Predominant Housing Type Single-Family; Apartment Rentals

Median House Price Range \$135,000-\$271,000

Average Size (Square Feet) 1,754

Median Year Built 1960

Median Condo Price Range \$217,000-\$230,000

Average Size (Square Feet) 1,744

Median Year Built 2005

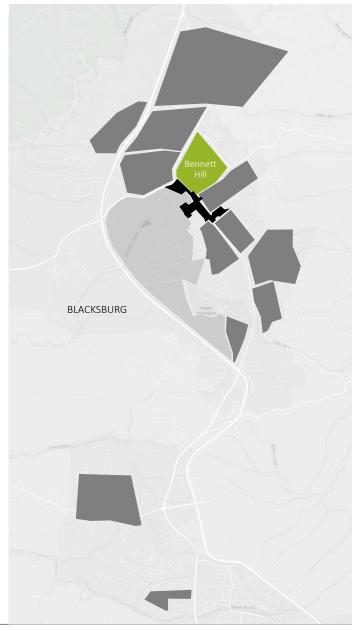
Major Condo Communities The Heights

Average One-Bedroom Rent \$575-\$600

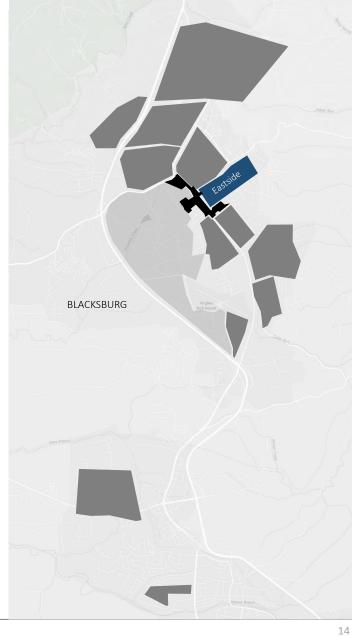
Average Two-Bedroom Rent \$700

Average Three-Bedroom Rent \$750-\$800

Selected Rental Properties Hearthstone



Eastside			
Predominant Housing Type	Single-Family; Apartment Rentals		
Median House Price Range	\$203,000-\$290,000		
Average Size (Square Feet)	2,010		
Median Year Built	1973		
Median Condo Price Range	\$93,000-\$139,000		
Average Size (Square Feet)	961		
Median Year Built	1988		
Major Condo Communities	Berryfield		
Average One-Bedroom Rent	\$573		
Average Two-Bedroom Rent	\$698		
Average Three-Bedroom Rent	\$760		
Average Four-Bedroom Rent	\$1,940		
Selected Rental Properties	Jefferson Apartments; Chase Apartments		



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Predominant Housing Type Single-Family

Median House Price Range \$201,000-\$245,000

Average Size (Square Feet) 2,119

Median Year Built 2001

Median Condo Price Range N/A

Average Size (Square Feet) N/A

Median Year Built N/A

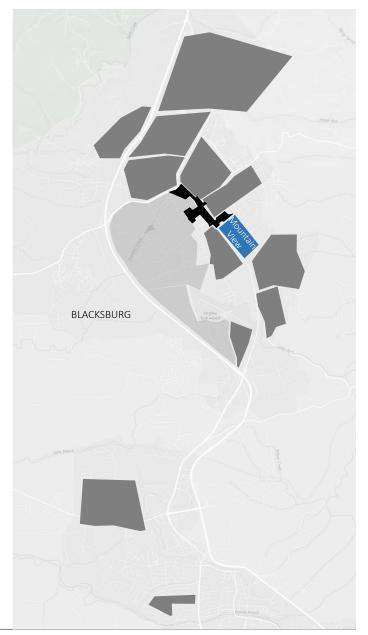
Major Condo Communities N/A

Average One-Bedroom Rent N/A

Average Two-Bedroom Rent N/A

Average Three-Bedroom Rent N/A

Selected Rental Properties N/A



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# Miller-Southside

Predominant Housing Type Single-Family

Median House Price Range \$243,000-\$527,000

Average Size (Square Feet) 2,779

Median Year Built 1957

Median Condo Price Range N/A

Average Size (Square Feet) N/A

Median Year Built N/A

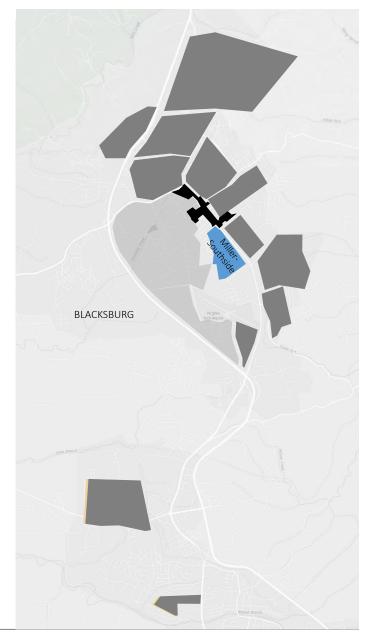
Major Condo Communities N/A

Average One-Bedroom Rent N/A

Average Two-Bedroom Rent N/A

Average Three-Bedroom Rent N/A

Selected Rental Properties N/A



# Grissom/Highland

Predominant Housing Type Single-Family

Median House Price Range \$219,000-\$363,000

Average Size (Square Feet) 2,528

Median Year Built 1968

Median Condo Price Range N/A

Average Size (Square Feet) N/A

Median Year Built N/A

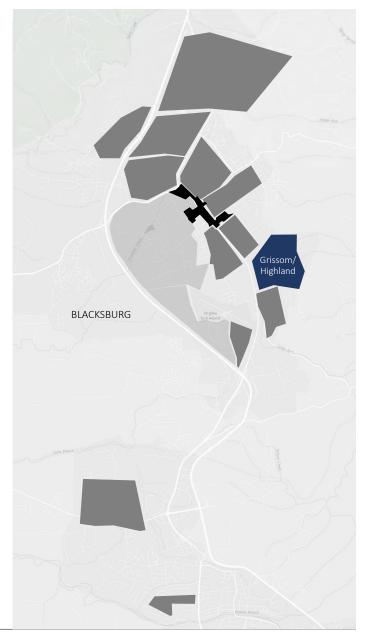
Major Condo Communities N/A

Average One-Bedroom Rent N/A

Average Two-Bedroom Rent N/A

Average Three-Bedroom Rent N/A

Selected Rental Properties N/A



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Predominant Housing Type Condos; Apartment Rentals

Median House Price Range \$152,000-\$197,000

Average Size (Square Feet) 1,621

Median Year Built 1985

Median Condo Price Range \$96,000-\$136,000

Average Size (Square Feet) 1,005

Median Year Built 1978

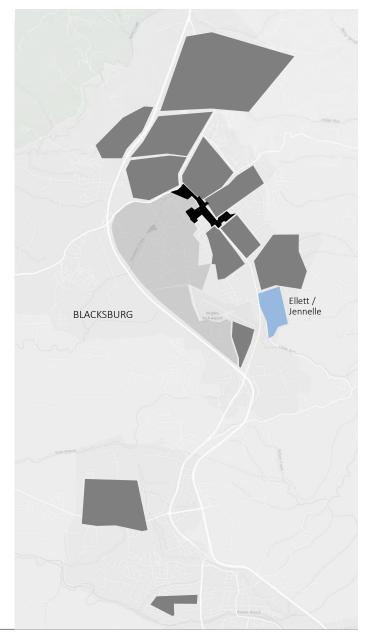
Major Condo Communities Cascades

Average One-Bedroom Rent \$700-\$750

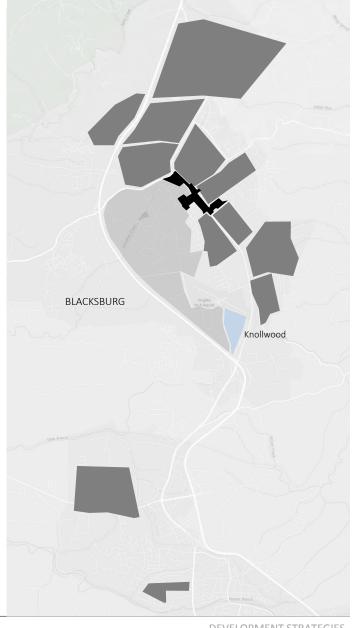
Average Two-Bedroom Rent \$775-\$825

Average Three-Bedroom Rent \$1,000-\$1,050

Selected Rental Properties Cedar Crest, Mill at Blacksburg



Knol	llwood
Predominant Housing Type	Condos; Townhome and Apartment Rentals
Median House Price Range	\$182,000-\$245,000
Average Size (Square Feet)	1,180
Median Year Built	2000
Median Condo Price Range	\$142,000-\$182,000
Average Size (Square Feet)	1,044
Median Year Built	1998
Major Condo Communities	Knollwood
Average One-Bedroom Rent	\$780-\$950
Average Two-Bedroom Rent	\$975-\$1,250
Average Three-Bedroom Rent	\$1,275-\$1,450
Selected Rental Properties	Crossing at Knollwood, Cedarfield, Reserve at Knollwood, Knollwood Townhomes



# New River Mall Area

Predominant Housing Type Single-Family

Median House Price Range \$173,000-\$211,000

Average Size (Square Feet) 2,000

Median Year Built 2005

Median Condo Price Range \$220,000-\$255,000

Average Size (Square Feet) 1,676

Median Year Built 2007

Major Condo Communities Villas at Peppers Ferry

Average One-Bedroom Rent N/A

Average Two-Bedroom Rent N/A

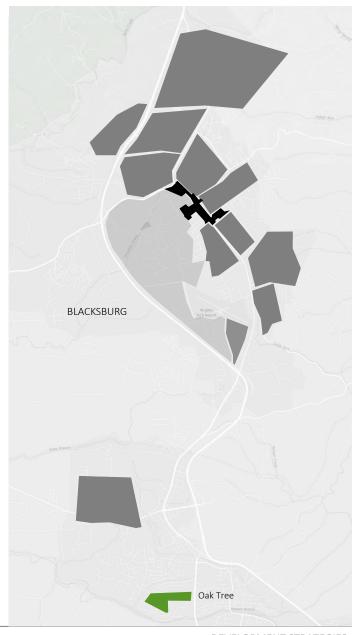
Average Three-Bedroom Rent N/A

Selected Rental Properties N/A



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Predominant Housing Type	Townhomes
Median House Price Range	\$138,000-\$160,000
Average Size (Square Feet)	1,629
Median Year Built	2000
Median Condo Price Range	N/A
Average Size (Square Feet)	N/A
Median Year Built	N/A
Major Condo Communities	N/A
Average One-Bedroom Rent	N/A
Average Two-Bedroom Rent	N/A
Average Three-Bedroom Rent	N/A
Selected Rental Properties	N/A



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Appendix C EXISTING RESIDENTIAL SUPPLY

# Existing Supply: Rental

Based on current Downtown properties, newly constructed medium and high-density products targeted at students will rent for up to \$1.80 per square foot, while newly rehabilitated properties for graduate students and professionals will rent for as much as \$2.00 per square foot.

Owners of rental properties in Blacksburg were surveyed to determine rents and occupancies in the market, as well as to gain an understanding of achievable rents relative to a property's age, location, and level of finish. Following is an analysis of the most relevant properties:

Undergraduate Student Apartments: These property types are developed at medium to high densities and generally include some larger three- and four-bedroom units. None have been developed within the Downtown area. The most recently-built properties, The Edge and Smith's Landing, achieve rents from \$1.20 per square foot for one-

bedroom units up to \$1.85 per square foot for four-bedroom units.

Graduate Student and Young Professional Rentals: There are a small number of rehabbed properties in Downtown Blacksburg, with around 20 rental units, that are targeted to graduate students and young professionals. In general they provide levels of finish and are of a quality that is superior to many older properties currently in the market. Newer apartments in the Knollwood community, southwest of Downtown, also attract this demographic. Rents at these properties range from \$1.15 to \$2.00 per square foot for one-bedroom and two-bedroom units.

Midscale Apartments: Blacksburg has a number of large older properties with dated unit interiors and/or inferior locations. These are primarily garden-style apartment properties that were built prior to 1990 and have received only modest renovations over the past few decades. Rents at these properties range from about \$1.00 per square foot for one-bedroom units to \$0.85 to \$0.90 per square foot for two- and three-bedroom units.



The Edge



Jackson Square Apartments



Reserve at Knollwood



Jefferson Apartments

#### Town of Blacksburg Summary of Selected Apartment Rental Properties

			Tw	o-Bedroo	m	Thre	ee-Bedroo	Four-Bedroom			
	Year Built/	#of	Avg.	Size	Rent	Avg.	Size	Rent	Avg.	Size	Rent
Project	Rehabbed	Units	Rent	(SF)	PSF	Rent	(SF)	PSF	Rent	(SF)	PSF
Undergraduate Student Rentals											
The Edge	2013	252	\$1,430	923	\$1.55	\$2,037	1,207	\$1.69	\$3,000	1,592	\$1.88
Smith's Landing	2008	284	\$1,108	1,071	\$1.03	\$1,390	1,238	\$1.12	-	-	-
Graduate/Young Professional Rentals											
Reserve at Knollwood	2013	111	\$1,229	1,085	\$1.13	\$1,443	1,231	\$1.17		-	-
Lofts at the Lyric	2007	11	\$1,823	895	\$2.04	-	-	-	-	-	-
Lofts at 316	2010	3	-	-	-	-	-	-	-	-	-
Jackson Square Apartments	2003	8	-	-	-	-	-	-	-	-	-
Midscale Apartments											
Hearthstone Apartments	1962-1963	34	\$700	840	\$0.83	-	-	-	-	-	-
Jeffers on Apartments	1970	250	\$698	790	\$0.88	\$760	915	\$0.83	-	-	-
Cedarfield	1993-2001	114	\$978	1,075	\$0.91	\$1,275	1,444	\$0.88	-	-	-

## Existing Supply: For Sale

A small number of condominium projects have occurred in Downtown Blacksburg in the past 15 years. While the market for upscale condominiums is modest, there is increasing demand from young professionals for midscale for-sale products in Downtown, a demand which is currently not being met.

Recent condominium projects were developed at the height of the housing boom with inflated prices, which had to come down considerably during the housing downturn in order to sell units. Nevertheless, the housing market is recovering and future demographic trends indicate that multifamily housing is likely to be in greater demand. Much of the demand will come from young professionals, for whom Downtown would be an appealing location for high-density, forsale housing.

Upscale Condos: Upscale condo development in Blacksburg has occurred exclusively Downtown, and includes Kent Square, Clay Court, and the Brownstone. All three projects were built in the past 15 years and between them include 64 one-, two-, and three-bedroom units. Recent sales at Kent Square average \$260 per square foot, while the units at the

Brownstone sell for approximately \$325 per square foot. These are generally targeted at mid-career professionals, retirees, and "game day" buyers, and are outside the price range for young professionals.

Midscale Condos: Knollwood Condominiums and Cascade Pointe Condos are midscale condominium projects developed in the 1980s and 1990s. These projects have fewer amenities and lower levels of finish, with less desirable locations. These products are targeted towards graduate and professional students and young working professionals. Many of the units are currently being rented, but recent sales data indicate prices of around \$150 to \$170 per square foot.



Kent Square



The Brownstone



**Knollwood Condominiums** 

### Town of Blacksburg Summary of Selected For-Sale Properties

			One-Bedroom			Two-Bedroom			Thi	ee-Bedroo	om	Four-Bedroom			
	Year Built/	#of	Avg.	Size	Price	Avg.	Size	Price	Avg.	Size	Price	Avg.	Size	Price	
Project	Rehabbed	Units	Sale Price	(SF)	PSF	Sale Price	(SF)	PSF	Sale Price	(SF)	PSF	Sale Price	(SF)	PSF	
Condos															
The Brownstone*	2014	17	-	-	-	\$500,000	1,543	\$324	-	-	-		-	-	
Clay Court	2006	32	\$230,000	980	\$235	\$350,000	1,260	\$278	-	-	-		-	-	
Kent Square	2004	15	\$167,750	632	\$265	\$280,000	1,094	\$256	\$370,000	1,382	\$268		-	-	
Knollwood Condominiums	1990s	90	\$132,100	770	\$172	\$184,900	1,068	\$173	\$180,000	1,184	\$152		-	-	
Cascades Pointe Condos	1980s/2006	120	\$94,750	616	\$154	\$108,450	756	\$143	\$144,400	924	\$156	\$189,000	1,254	\$151	

**DEVELOPMENT STRATEGIES 2015** \*Development is not completed; prices represent information obtained from developer

# Existing Supply: Single Family and Townhome Developments

Blacksburg has a few examples of dense single family and townhome infill products around the peripheries of Downtown. They demonstrate that these products could be very marketable in the greater Downtown area, given feasible land costs.

While single family and townhome products in Downtown may not be the highest and best uses of land, they can be very marketable in greater downtown locations, and generally have a deeper pool of demand (i.e., more people want to live in single family homes than want to live in multifamily properties).

Fiddlers Green: Located just southeast of Downtown, Fiddlers Green includes single family, villa, and duplex units. About 60 lots, 40 villas and six duplexes have been sold since development began in 2007. The single family units range in size from 2,500 to 4,500 square feet and sell for an average of \$155 per square foot; the villas range from 1,500 to 2,500 square feet and sell for an average of \$150 per square foot; and the duplexes are 1,500 square feet in size on average and sell for an average of \$170 per

square feet. The development is located behind the Middle School site, very close to Downtown although it is not a walkable distance.

Echols Village: Echols Village was developed in two phases between 2006 and 2014 at the north end of Blacksburg in the Patrick Henry neighborhood. The three-bedroom single family units range in size from 1,450 to 1,675 square feet and sell for \$140 per square foot on average. The units were targeted towards young professional families, although many were ultimately bought by parents of university students or investors.

Knollwood Townhomes: Developed in 2006, the Knollwood Townhomes are located in the Knollwood community southwest of Downtown. The two- and three-bedroom units range in size from 1,400 to 2,200 square feet., with two-bedroom units selling for \$130 per square foot and three-bedroom units selling for \$170 per square foot.



Fiddlers Green



Echols Village



**Knollwood Townhomes** 

Town of Blacksburg Summary of Selected For-Sale Properties

			T	wo-Bedroom	1	7	hree-Bedroon	1	Four-Bedroom			
	Year Built/	#of	Avg.	Size	Price	Avg.	Avg. Size	Price	Avg.	Avg. Size	Price	
Project	Rehabbed	Units	Sale Price	(SF)	PSF	Sale Price	(SF)	PSF	Sale Price	(SF)	PSF	
Single Family and Townhomes	5											
Echols Village	2006-2014	53	-	-	-	\$214,150	1,565	\$137	-	-	-	
Fiddlers Green	2007-2014	61	-	-	-	\$388,400	2,395	\$162	\$449,400	3,052	\$147	
Villas at Fiddlers Green	2007-2014	42	-	-	-	\$305,900	2,021	\$151	\$357,300	2,131	\$168	
Duplexes at Fiddlers Green	2007-2014	6	-	-	-	\$257,875	1,508	\$171	-	-	-	
Knollwood Townhomes	2006	42	\$210,000	1,616	\$130	\$295,000	1,763	\$167	-	-	-	
<b>DEVELOPMENT</b> STRATEGIES 2015												

# Affordable Housing: Rental

Rents at affordable properties in Blacksburg are slightly lower than the town's older midscale apartment market and substantially lower than most other housing, but the supply of affordable units is extremely limited.

Affordable properties are generally those that target households earning 30 to 60 percent of area median income. Apartment development is facilitated with tax credits from the Low Income Housing Tax Credit (LIHTC) program, and limits are set on household earnings for qualifying tenants, as well rents that can be charged. For 2015, maximum monthly gross rents in Montgomery County are \$810 for one-bedroom units, \$972 for a two-bedroom unit, and \$1,123 for a three-bedroom unit. There is only one affordable project in Blacksburg—Cedar Crest—with 80 units. An additional 150 affordable units are offered in Christiansburg.

Cedar Crest: Blacksburg's only affordable property development is located in the Ellett/Jennelle neighborhood, southwest of Downtown. It includes 80 two- and three-bedroom units in duplex homes. Rents average \$0.50 per square foot for households making 50 percent of area median income and \$0.60 to \$0.70 per square foot for households making 60 percent of area median income.

Christiansburg Properties: There are four affordable properties located in Christiansburg, three of which are managed by Community Housing Partners. The majority of the units are two- and three-bedroom townhome units similar to Cedar Crest. The units at Linden Grove and Hunting Hills are smaller than Cedar Crest and rents are about \$0.60 per square foot for 50 percent AMI tenants and \$0.70 per square for for 60 AMI tenants. Units at Huckleberry Court and Henly Place are significantly larger. Rents at Huckleberry Court are \$0.50 per square on average, while rents at Henly Place—which has the largest units—are approximately \$0.35 per square foot.

There are currently no one-bedroom affordable units available in the market. Therefore, a new affordable property in Downtown could probably achieve \$0.80 per square foot for a 600 to 700 square foot, one-bedroom unit. Two-bedroom units of 900 to 950 square feet could likely achieve rents of \$0.75 per square foot, and three-bedroom units of 1,200 square feet could achieve rents of \$0.70 per square foot. These rents are similar to rents of midscale apartments in Blacksburg, and greatly discounted compared to newly rehabilitated or renovated units. More importantly, affordable multi-family units in Downtown would offer walkable access to amenities that current properties lack. Current Downtown land costs will likely preclude such development.





Town of Blacksburg
Summary of Selected Affordable Rental Properties

					Two-Bedroom			Th	ree-Bedroo	om	Four-Bedroom		
		Year Built/	Occ.	#of	Avg.	Size	Rent	Avg.	Size	Rent	Avg.	Size	Rent
Project	Town	Rehabbed	Rate	Units	Rent	(SF)	PSF	Rent	(SF)	PSF	Rent	(SF)	PSF
50% AMI Units													
Cedar Crest	Blacksburg	2006-2014	94%	40	\$508	1,025	\$0.50	\$673	1,296	\$0.52	-	-	-
Hunting Hills	Christiansburg	2007-2014	99%	9	\$541	850	\$0.64	-	-	-	-	-	-
Linden Grove	Christiansburg	2007-2014	90%	29	\$520	850	\$0.61	-	-	-	-	-	-
Huckleberry Court	Christiansburg	2007-2014	95%	50	\$616	1,185	\$0.52	\$783	1,366	\$0.57	\$875	1,939	\$0.45
Henly Place	Christiansburg	2006	89%	41	\$620	1,656	\$0.37	\$830	2,253	\$0.37	\$945	2,582	\$0.37
60% AMI Units													
Cedar Crest	Blacksburg	2006-2014	94%	40	\$728	1,025	\$0.71	\$823	1,296	\$0.64	-	-	-
Hunting Hills	Christiansburg	2007-2014	99%	9	\$561	850	\$0.66	-	-	-	-	-	-
Linden Grove	Christiansburg	2007-2014	90%	29	\$627	850	\$0.74	-	-	-	-	-	-

**DEVELOPMENT** STRATEGIES 2015

Appendix D FEASIBILITY ANALYSIS

### Zone I: Upscale Undergraduate Housing

# **Proposed Development Details**

Avg. Unit Size: 1,550 SF

Units/Acre: 35

Total Units: 65

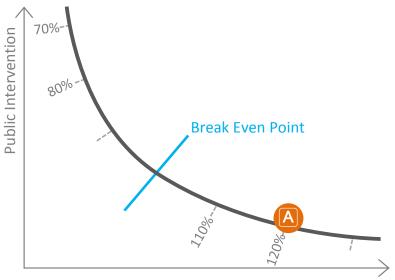
Rent/Square Foot: \$1.85

Development Costs/ SQ Ft: \$150

Capitalization Rate: 6.0%







Private Market

## Zone I: Off-Campus University Housing

31

# **Proposed Development Details**

Avg. Unit Size: 560 SF

Units/Acre: 40

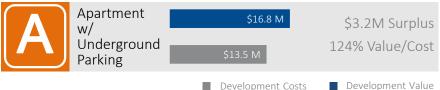
Total Units: 75

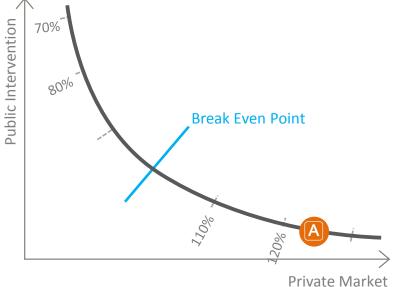
Rent/Square Foot: \$2.80

Development Costs/ SQ Ft: \$220

Capitalization Rate: 5.5%







# Zone I: Graduate/Professional Housing

# **Proposed Development Details**

Avg. Unit Size: 600 SF

Units/Acre: 50

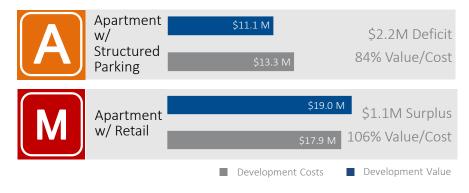
Total Units: 100

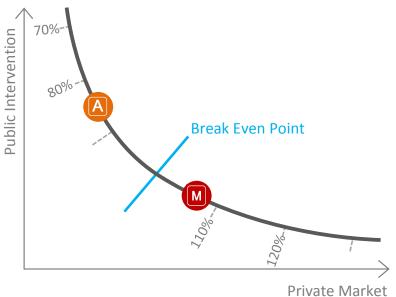
Rent/Square Foot: \$1.50

Development Costs/ SQ Ft: \$160

Capitalization Rate: 6.0%







## Zone I: Mid-Career Apartments

# **Proposed Development Details**

Avg. Unit Size: 950 SF

Units/Acre: 50

Total Units: 95

Rent/Square Foot: \$1.90

Development Costs/ SQ Ft: \$180

Capitalization Rate: 6.25%





\$0.9M Surplus 104% Value/Cost

■ Development Costs ■ Development Value



## Zone I: Young Professional Condos

# **Proposed Development Details**

Avg. Unit Size: 1,150 SF

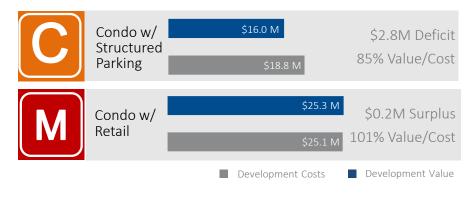
Units/Acre: 40

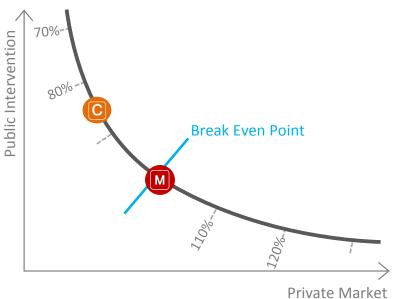
Total Units: 75

Sale Price/Square Foot: \$200

Development Costs/ SQ Ft: \$160







## Zone I: Mid-Career Condos

# **Proposed Development Details**

Avg. Unit Size: 1,650 SF

Units/Acre 35

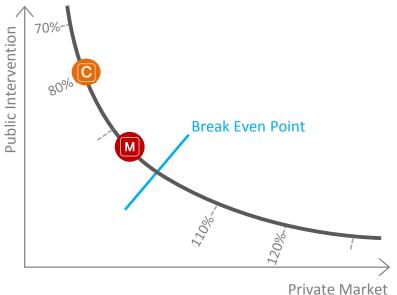
Total Units: 65

Sale Price/Square Foot: \$200

Development Costs/ SQ Ft: \$180







## Zone I: Upscale/Game Day Condos

# **Proposed Development Details**

Avg. Unit Size: 2,300 SF

Units/Acre: 30

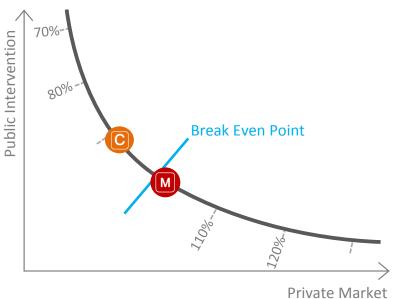
Total Units: 55

Sale Price/Square Foot: \$200

Development Costs/ SQ Ft: \$180







## Special Opportunity Site: The Baptist Church Site

#### Zone 2: Graduate Student and Young Professional Apartments

# **Proposed Development Details**

Avg. Unit Size: 600 SF

Units/Acre: 25

Total Units: 40

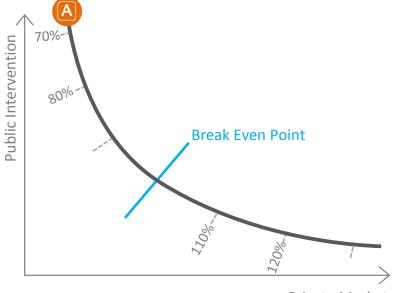
Rent/Square Foot: \$1.50

Development Costs/ SQ Ft: \$160

Capitalization Rate: 6.0%







## Special Opportunity Site: The Baptist Church Site

#### Zone 2: Empty Nester/Mid-Career Townhomes

## **Proposed Development Details**

Avg. Unit Size: 1,800 SF

Units/Acre: 15

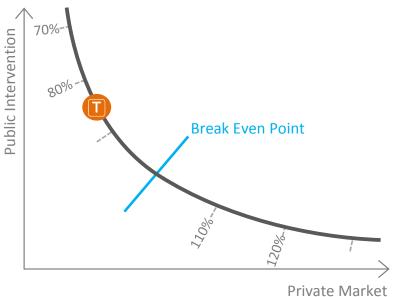
Total Units: 24

Sale Price/Square Foot: \$190

Development Costs/ SQ Ft: \$150







#### Zone I: Graduate Student and Young Professional Apartments

# **Proposed Development Details**

Avg. Unit Size: 600 SF

Units/Acre: 50

Total Units: 300

Rent/Square Foot: \$1.50

Development Costs/ SQ Ft: \$160

Capitalization Rate: 6.0%







#### Zone I: Mid-Career Apartments

# **Proposed Development Details**

Avg. Unit Size: 950 SF

Units/Acre: 50

Total Units: 300

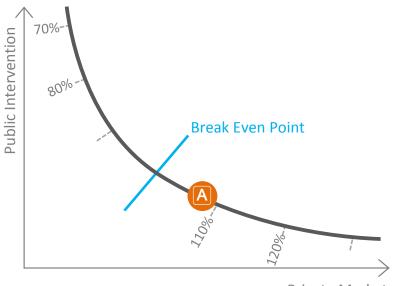
Rent/Square Foot: \$1.90

Development Costs/ SQ Ft: \$180

Capitalization Rate: 6.25%







#### Zone 1: Young Professional Condos

# **Proposed Development Details**

Avg. Unit Size: 1,150 SF

Units/Acre: 40

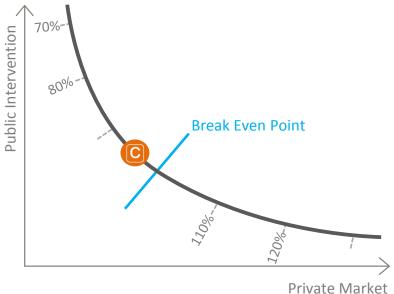
Total Units: 240

Sale Price/Square Foot: \$200

Development Costs/ SQ Ft: \$160







#### Zone I: Mid-Career Condos

# **Proposed Development Details**

Avg. Unit Size: 1,650 SF

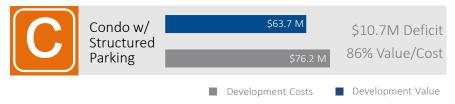
Units/Acre 35

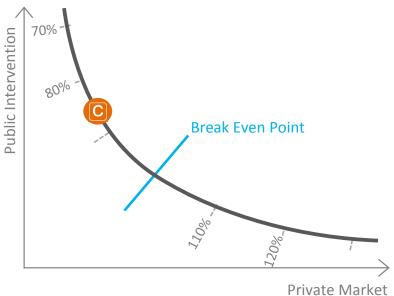
Total Units: 210

Sale Price/Square Foot: \$200

Development Costs/ SQ Ft: \$180







#### Zone I: Upscale/Game Day Condos

# **Proposed Development Details**

Avg. Unit Size: 2,300 SF

Units/Acre: 30

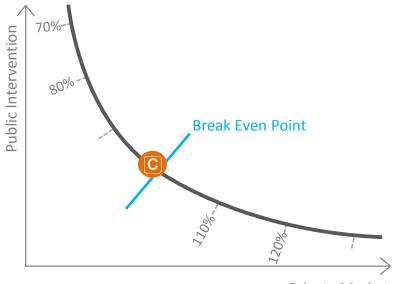
Total Units: 55

Sale Price/Square Foot: \$200

Development Costs/ SQ Ft: \$180







#### Zone 2: First Time Townhomes

# **Proposed Development Details**

Avg. Unit Size: 1,500 SF

Units/Acre: 12

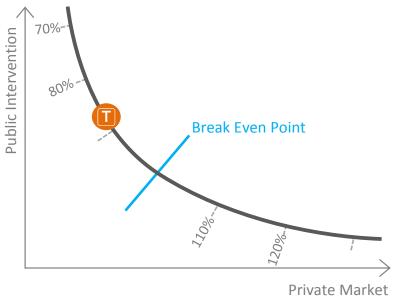
Total Units: 120

Sale Price/Square Foot: \$140

Development Costs/ SQ Ft: \$130







#### Zone 2: Empty Nester/Mid-Career Townhomes

# **Proposed Development Details**

Avg. Unit Size: 1,800 SF

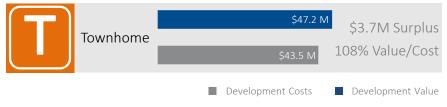
Units/Acre: 15

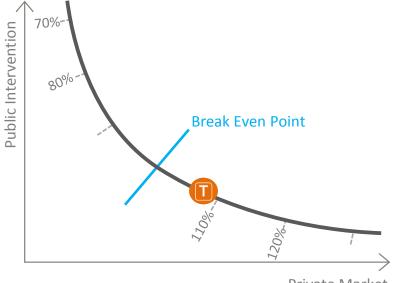
Total Units: 150

Sale Price/Square Foot: \$190

Development Costs/ SQ Ft: \$150







Appendix E DEMAND METHODOLOGIES

## Demand: Outmigration and Leakage

In estimating the number of outmigrants from Blacksburg that could be potentially captured with new development Downtown, Development Strategies used three data sources: the 2006-2010 American Community Survey County-to-County Migration numbers for Montgomery County, stratified by age; the 2010 U.S. Census total population by age for the migration destination categories (see below); and the 2013 Tapestry Segmentation Area Profile for the migration destination categories.

The top migration destination cities and counties were grouped into the following six categories:

Radford - includes Radford City, VA

Northern Virginia/DC/Baltimore – includes Fairfax and Arlington counties, VA; Alexandria City, VA; and Anne Arundel and Montgomery counties, MD Richmond Area – includes Richmond City and Chesterfield and Henrico counties, VA

Virginia Beach Area – includes Chesapeake and Virginia Beach cities, VA Roanoke Area – includes Roanoke and Salem cities, VA

Out of State Counties – includes Mecklenberg, New Hanover, and Wake counties, NC; Dane County, WI; Allegheny County, PA; Suffolk County, MA; Orange County, FL; New Castle County, DE; Charleston County, SC; and Hamilton County, OH

For each migration destination category, we calculated the ratio of the number of Montgomery County migrants in each age group to the total population in each age group. The age groups are: 0-19, 20-24, 25-34, 35-44, 45-54, 55-64, 65-74, and 75 years and older. These ratios were then applied to the population in each Tapestry segment based on the median age for that segment. The resulting number provides an estimate of how many households in each Tapestry group consist of migrants from Montgomery County in each migration destination category.

In the final step of the analysis, we calculated an estimated number of migrant households from each Tapestry segment that Blacksburg could capture over ten years. The estimated number of migrant households in each Tapestry segment was multiplied by ten, and then multiplied by a capture rate. The capture rates reflect the likelihood that a household in a given Tapestry segment would want to live in Downtown Blacksburg given the right housing product, and are based on our knowledge of the segments and experience in studying other cities. This final estimates are shown in the graph and table presented in the body of the report.

#### Demand: Employment Based

Demand for Downtown housing from individuals in different types of occupations is based on data from the Bureau of Labor Statistics (BLS) on number of employees per occupation for the Blacksburg MSA. Occupations whose employees are most likely to live in downtown environments were grouped into four categories: Tech/IT, Creative, Research/Life Science/Engineering/Post-Secondary Education; and Management/Business/Finance/Legal. For each category, a capture rate was applied to the total number of employees in each category. The capture rates reflect the likelihood that an individual in a given occupation would want to live in Downtown Blacksburg given the right housing product, and are based on our knowledge of market trends and experience in studying other cities.

The occupations (as defined by the BLS) included in each category are listed below, along with the capture rates for each category:

#### Tech/IT

(Downtown capture rate -30 percent):

Computer and Mathematical Occupations

#### Creative

(Downtown capture rate -30 percent):

- Architects, Except Landscape and Naval
- Graphic Designers
- Public Relations Specialists

# Research/Life Science/Engineering/Post-Secondary Education (Downtown capture rate – 15 percent):

- Civil Engineers
- Electrical Engineers
- Electronics Engineers, Except Computer
- Environmental Engineers
- Industrial Engineers

- Materials Engineers
- Mechanical Engineers
- Mechanical Drafters
- Civil Engineering Technicians
- Electrical and Electronics Engineering Technicians
- Industrial Engineering Technicians
- Mechanical Engineering Technicians
- Surveying and Mapping Technicians
- Life, Physical, and Social Science Occupations
- Business Teachers, Postsecondary
- Mathematical Science Teachers, Postsecondary
- Biological Science Teachers, Postsecondary
- Chemistry Teachers, Postsecondary
- Physics Teachers, Postsecondary
- Economics Teachers, Postsecondary
- Political Science Teachers, Postsecondary
- Psychology Teachers, Postsecondary
- Nursing Instructors and Teachers, Postsecondary
- Art, Drama, and Music Teachers, Postsecondary
- English Language and Literature Teachers, Postsecondary
- Foreign Language and Literature Teachers, Postsecondary
- History Teachers, Postsecondary
- Philosophy and Religion Teachers, Postsecondary

#### Management/Business/Finance/Legal

(Downtown capture rate: 15 percent):

- Management Occupations
- Business and Financial Operations Occupations
- Legal Occupations

## Demand: Alumni Housing

As the Baby Boomer generation reaches retirement age, there is a growing interest in "active retiree" communities—places that offer residents a variety of activities in an accessible setting. One type of active retiree communities is the University Based Retirement Community, or UBRC. UBRCs are affiliated with nearby universities and normally provide their residents with access to university facilities, classes, or other resources. Often the communities require that a certain percentage of their residents be affiliated with the partnering university, either as alumni, faculty, or staff. UBRC residents chose the communities both for the access to educational and cultural resources, as well as proximity to a vibrant university environment.

While there may be some demand for retirement housing in Blacksburg among Virginia Tech alumni, the numbers are likely quite modest. Virginia Tech graduated about 51,000 students between 1951 and 1981—students who would today be between the ages of 55 and 85. The greatest potential is among the 30,000 of these alumni aged 55 to 64, as that is the age at which most people will be willing and able to move to a new community for retirement. While a small number may be attracted to dense single family or townhomes near Downtown, potentially at the Middle School site, most of these retirees will be looking for a community setting with some opportunity for assisted living in the future, and are unlikely to be pioneers moving to new Downtown housing development.

# Virginia Tech Alumni

Total Alumni (graduated 1951 through 2014):

199,055

Alumni aged 55-64:

29,265

Alumni aged 65-85:

21,744