



10	+ UNIT PROPERTIES	1Q 2018	INCREASE/DECREASE	1Q 2017
Total Sales Volume		\$1.5B	+89%	\$782M
	" Price/Unit	\$151,399	+54%	\$98,593
	∝ ≃ Price/SF	\$185.05	+49%	\$123.94
+01	> < Year Built	1980	+5 yr 🖍	1975
	Average Rent	\$1,040	+5.8%	\$983
	Occupancy Rate	94.7%	-0.4% 💙	95.1%
	Units Delivered	1,630	-9%	1,794

#### ABI GEONEWS - PHOENIX MSA 1Q 2018 SELECT NEWS CONTINUED ON PAGE 06



Wells Fargo opening new regional office in Price Corridor to bring 1,200 jobs, Liberty Mutual opening new office to bring 750 jobs



87-Acre Healthy Mixed-Use Campus Planned - HonorHealth Wants Hospital-Anchored Urban Project at I-17 and Dove Valley



Denver-based EdgeCore Internet Real Estate LLC broke ground on its first \$150 million data center in Mesa, \$2B to be spent by full buildout



**∼** +1.9%



AS OF MAR 2018



EMPLOYMENT GROWTH Y-O-Y AS OF MAR 2018 - ADOA



\$43,249

MEDIAN HH INCOME 2014-15 ACS 5-YR EST PER CAPITA INCOME 2016 EBRC, DOA, BEA ESTIMATE

17,895



357,982



**UNDER CONSTRUCTION** 

TOTAL INVENTORY AS OF MAR 2018

## **PHOENIX MSA - PER CITY ANALYSIS**

PHOE	NIX MSA QUICK STATS UNE	MPLOYMENT R	ATE MEDIAN HH	INCOME DED CAD	TA INCOME T	TOTAL INVENTORY	+ UNDER CONSTRUCTION
IIIUL	Phoenix MSA	4.1%	\$55,5		3,249	301,024	17,895
Įņ.	Phoenix	4.5%	\$49,3	328 \$25	,213	131,209	6,464
	Mesa	4.5%	\$50,6	15 \$25	,669	36,474	864
	Scottsdale	3.7%	\$76,5	43 \$54	1,060	25,733	1,708
	Tempe	4.1%	\$50,4	74 \$27	7,705	32,818	2,694
	Glendale	4.7%	\$46,8	\$17 \$22	2,452	22,783	340
F	PHOENIX MSA - PER CITY ANA	<b>LLYSIS</b>	Phoenix	Mesa	Scottsdale	Tempe	Glendale
IATS	Average Rent (1	Q 2018)	\$952	\$911	\$1,349	\$1,251	\$871
RENT & OCCUPANCY STATS	% Change	(y-o-y)	+5.7%	+5.4%	+5.2%	+4.7%	+4.9%
CUPA	Occupancy Rate (1	Q 2018)	94.4%	95.5%	94.7%	94.5%	94.8%
% OC	% Change	(y-o-y)	-0.3%	-0.1%	-0.3%	-0.5%	+0.1%
RENT	Units Delivered (1Q 201	8, 50+)	426	N/A	N/A	840	76
	Total Sales Volume (1Q 2018	3, 100+)	\$468,270,000	\$22,100,000	\$210,395,000	\$324,400,000	\$48,775,000
(100+)	Total Sales Volume (1Q 2017	, 100+)	\$183,722,000	\$210,800,000	\$65,800,000	\$120,355,000	\$52,250,000
7A (10	% Change	(y-o-y)	+155%	-90%	+220%	+170%	-7%
SALES DATA	Avg P/U (1Q 2018	, 100+)	\$119,213	\$105,742	\$355,397	\$224,654	\$64,517
SALI	Avg P/U (1Q 2017	, 100+)	\$75,887	\$97,143	\$155,189	\$135,688	\$118,213
	% Change	(y-o-y)	+57%	+9%	+129%	+66%	-45%
	Total Sales Volume (1Q 2018,	10-99)	\$74,744,041	\$755,000	\$13,230,000	\$11,733,800	\$635,000
(66-	Total Sales Volume (1Q 2017,	10-99)	\$73,452,821	\$6,990,000	\$4,750,000	\$7,642,000	\$740,000
SALES DATA (10-99)	% Change	(y-o-y)	+2%	-89%	+179%	+54%	-14%
S DA	Avg P/U (1Q 2018,	10-99)	\$83,327	\$75,500	\$236,250	\$136,440	\$63,500
SALE	Avg P/U (1Q 2017,	10-99)	\$77,810	\$67,212	\$395,833	\$100,553	\$74,000
	% Change	(y-o-y)	+7%	+12%	-40%	+36%	-14%

#### 100+ UNIT PROPERTY ANALYSIS

1Q 2018	INCREASE/DECREASE	1Q 2017
\$1.37B	+101%	\$684M
	+57%	\$101,804
\$191.96	+51%	\$127.36
1991	+6 yr 🖍	1985
	1Q 2018 \$1.37B \$159,623 \$191.96 1991	\$1.37B +101%

# NUMBER OF TRANSACTIONS BY YEAR BUILT 12

#### **TOP 3 TRANSACTIONS BY PRICE/UNIT (100+)**

#### The Cottages of Tempe

Tempe, 159 Units | \$75,000,000 \$471,689/Unit | \$266.62/SF | Built 2015

#### **Optima Sonoran Village**

Scottsdale, 592 Units | \$210,395,000 \$355,397/Unit | \$341.93/SF | Built 2013/17

#### **VELA**

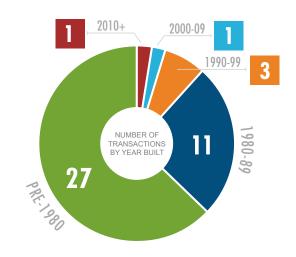
Tempe, 290 Units | \$73,200,000 \$252,414/Unit | \$295.91/SF | Built 2016

#### 1Q 2018 Transactions by Year Built

	# of Iransactions	Avg Price/Unit	Avg Price/ SF
2010+	5	\$302K	\$296
2000-09	4	\$181K	\$201
1990-99	4	\$162K	\$160
1980-89	12	\$96K	\$135
Pre-1980	7	\$87K	\$144

#### 10 - 99 UNIT PROPERTY ANALYSIS

	1Q 2018	INCREASE/DECREASE		1Q 2017
Total Sales Volume	\$106M	+8%		\$98M
ت Price/Uni	\$90,859	+13%		\$80,704
∝ Price/S	\$126.27	+21%		\$104.12
Year Buil     ✓     Year Buil     ✓     Xear Buil	1971	+3 yr		1968





#### Dusk

**TOP 3 TRANSACTIONS BY PRICE/UNIT (10-99)** 

Scottsdale, 41 Units | \$11,600,000 \$282,927/Unit | \$269.56/SF | Built 2016

#### **Revival Tempe**

Tempe, 14 Units | \$2,583,800 \$184,557/Unit | \$194.27/SF | Built 1983/84

3206 - 3230 North 38th Street Phoenix, 15 Units | \$2,400,000

\$160,000/Unit | \$256.25/SF | Built 1955

#### 1Q 2018 Transactions by Year Built

# of Transactions	Avg Price/Unit	Avg Price/SF
1	\$283K	\$270
1	\$146K	\$174
3	\$53K	\$73
11	\$82K	\$113
27	\$85K	\$124
	1 1 3 11	1 \$283K 1 \$146K 3 \$53K 11 \$82K

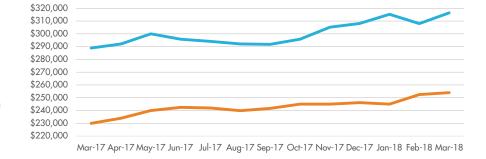
#### SINGLE FAMILY RESIDENTIAL - FOR SALE/LEASE

#### **AVG SALES PRICE \$316,400**

+9.5%, YEAR-OVER-YEAR AVERAGE

#### **MEDIAN SALES PRICE \$254,000**

+10.4%, YEAR-OVER-YEAR MEDIAN



#### **SFR SALES TRENDS \***

#### **MONTHLY SALES 9,402**

- +3.1%, YEAR-OVER-YEAR
- +36.0%, MONTH-OVER-MONTH

#### AVG DAYS ON MARKET 72

- -6 DAYS, YEAR-OVER-YEAR
- -4 DAYS, MONTH-OVER-MONTH

#### FORECLOSURES PENDING 2,862

- -12.2%, YEAR-OVER-YEAR
- -5.0%, MONTH-OVER-MONTH

\* As of March 2018

#### SFR - FOR LEASE

#### 1Q 2018

Median Lease: \$1,372
Average Lease: \$1,536
Avg. Days on Market: 33
Rent Check Quotient $^{TM}$ : 1: 5

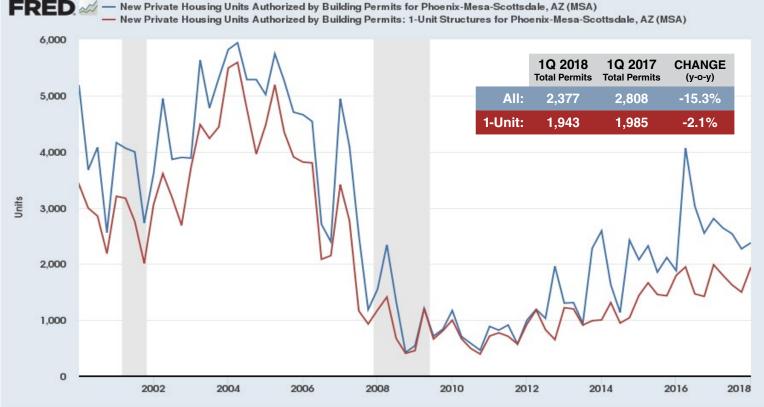
#### 1Q 2017

Median Lease:\$1,309Average Lease:\$1,480Avg. Days on Market:34Rent Check QuotientTM:3:10

**RENT Check Quotient (RCQ)** is the ratio of closed rentals to closed sales. For example, 1:2 (one to two) would mean for every 1 rental, there are 2 closed sales. 1:1 (one to one) would mean that the number of closed rentals and closed sales are the same.

ABI Research / ARMLS® COPYRIGHT 2018

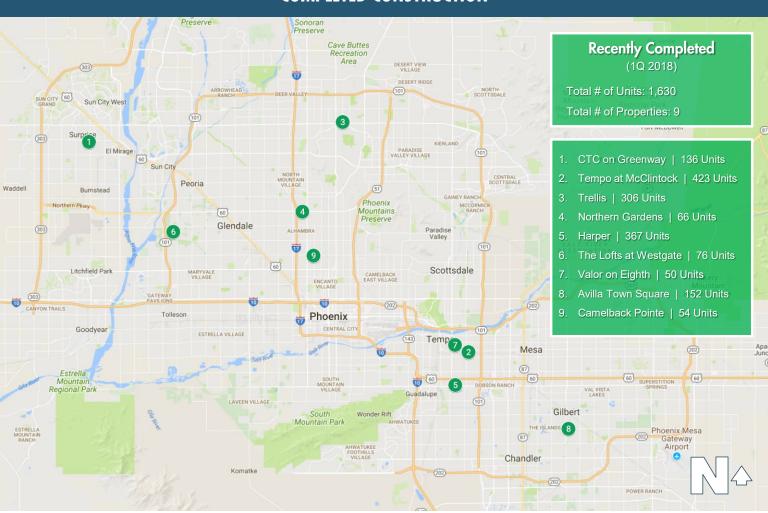
### **HOUSING PERMIT DATA - SFR/MF \***



\* Quarterly Average permitted units from 2000 to YTD (FRED)

ABI Research / FRED® COPYRIGHT 2018

#### **COMPLETED CONSTRUCTION**





11,000 10,000 9,315 9,000 8,533 7,912 7,785 8,000 7,261 6,902 7,000 20 Year Average: 5,229 6,385 6.000 5,431 5,003 5,000 4,661 4.527 4,000 3,683 3,569 3,281 2 751 3,000 2.593 2,000 1.668 1,630 1,000 0 205 20/5

#### TOTAL UNIT INVENTORY

10+ UNIT PROPERTIES: 357,982

50+ UNIT PROPERTIES: 301,024

## Under Construction

PRE-LEASE

**ABSORPTION RATE** 

Total # of Units: 17,895

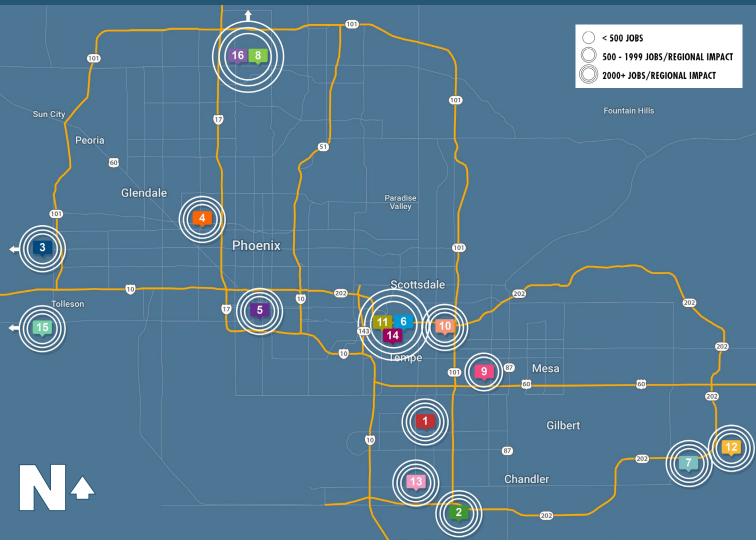
#### **Planned**

Total # of Units: 13,829
Total # of Properties: 67

12,000

<sup>\*</sup> Project Units Delivered. Project units delivered is based on when the total project is completed, not as individual buildings/units are delivered

#### **1Q 2018 SELECT NEWS**

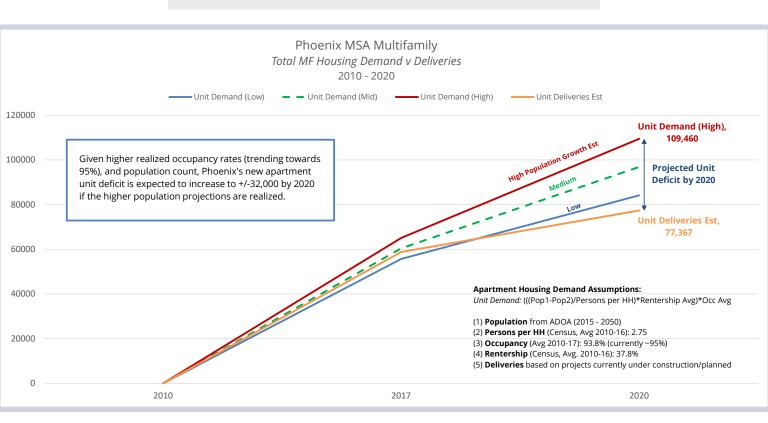


- Northern Trust | Opening \$95M regional operations center in Tempe | Hiring 1,000
- Wells Fargo opening new regional office in Price Corridor to bring 1,200 jobs, Liberty Mutual opening new office to bring 750 jobs
- New UPS Hub to add processing capacity for e-commerce, add 1,500 jobs at Goodyear PV303
- GCU continues massive campus expansion | 3,000+ employees and 14,000+ students expected by 2020
- Quicken Loans finalizes deal to move 1,100-plus jobs to Downtown Phoenix
- 6 State Farm Regional Headquarters: Brings total State Farm Phoenix area employment to 3,000+
- SkyBridge Arizona, nation's first international air cargo hub to house both Mexican and United States customs, expected to create 17,000 new jobs
- 87-Acre Healthy Mixed-Use Campus Planned HonorHealth Wants Hospital-Anchored Urban Project at I-17 and Dove Valley

- Santander Consumer USA to hire 1,000+ workers for new regional operations center in Mesa's Fiesta District with avg salary of \$51,000
- Freedom Financial Network expected to bring 3,200 jobs to East Valley hub after lease signing
- New ADP office to bring 1,500 jobs to Tempe, AZ
- Denver-based EdgeCore Internet Real Estate LLC broke ground on its first \$150 million data center in Mesa, \$2B to be spent by full buildout
- Intel to invest \$7 billion in new factory in Chandler, employ 3,000 workers
- ASU hiring 3,000+ new faculty and staff to keep up with growth, enrollment tops 100,000+
- Bill Gates invests \$80 million in real estate on Phoenix area's western edge to build smart city
- 16 USAA adding 1,000 tech jobs in Phoenix in next 3 years

## **PHOENIX MSA 1Q 2018: CONSTRUCTION ASSUMPTIONS**

BY: THOMAS M. BROPHY, DIRECTOR OF RESEARCH



#### **CONSTRUCTION ASSUMPTIONS**

Phoenix MSA 1Q 2018

Given the many questions I have recently been fielding regarding construction, as well as market chatter about overbuilding, I want to take most of this quarterly review to discuss construction. As I have discussed many times both here and in our ABInsight articles, we are living through a tectonic demographic shift pushing us further and further into a more renter-centric society, which started in earnest in 2011/12 and what we at ABI have coined 'The Decade of the Renter.' I'll make no assertions whether this shift is good or bad, but make no mistake that it is happening.

Based on Census estimates, at the National level, renter household levels have increased nearly 8% since 2000. More locally, the Phoenix MSA, as a whole, has witnessed a stunning 21% increase in renter households, impacting nearly 15% of the entire population, ~660,000 people, from 2000 through 2016. This tectonic shift in the renter household population was led by Glendale, ~31% increase, Tempe, ~21%, Phoenix ~20%, Mesa ~19% and Scottsdale ~12%.

#### PHOENIX MARKET METRICS

By the Numbers

The MSA's total sales volume (10+ unit properties) increased 89%, y-o-y, to \$1.48 billion across 75 transactions representing 9,766 total units sold. California-based investors continue to be the dominant buyer of multifamily properties in the Valley accounting for 31% of total units transacted, or 3,059 units. Arizona-based investors came in 2nd with a little over 1,900 units purchased and rounding out the top five: (#3) Canada-based investors with 1,201 units, (#4) Texas-investors with 980 units purchased, and (#5) Iowa-based investors with 592 units.

Sales of 100+ unit properties witnessed a 101% y-o-y increase to \$1.37 billion, although still below 2Q 2016's peak of \$1.69B. Average Price-Per-Unit (PPU) amount increased as well rising 57% to \$159,623. Whereas 100+ unit properties saw significant increases in sales volume, 10 to 99 unit properties saw a mild volume

increase of 8% to \$106M with a 13% in average PPU amount to \$90,859. As detailed in previous reports, PPU increases in the smaller property size category continues the sales trend which began in earnest in late 2016 through YTD, as mid-century built, extensively repositioned properties having been coming back online for sale. In fact, pre-1980's built product represented 63% of all transactions for 1Q 2018, down from YE 2017's high of 72%.

In regards to new construction, developers delivered 1,630 units in the 1Q, a (9%) y-o-y contraction. For 2018, developers are on track to deliver 9,000+ new units, the most since 2009's 9,315 unit delivery high. Although planned unit construction decreased (7%) y-o-y, to 13,829, q-o-q registered a 15% increase as developers gradually increased their purchases of developable land.

The MSA's Occupancy Rate ended 1Q at 94.7%, a (0.4%) y-o-y decline, while average rent increased 5.8% y-o-y to \$1,040. City of Mesa and Phoenix once again claimed

### ABInsight PHOENIX MSA 1Q 2018 REVIEW: CONSTRUCTION ASSUMPTIONS

BY: THOMAS M. BROPHY, DIRECTOR OF RESEARCH

the top spots in the MSA for rent growth at 5.7% and 5.4% respectively, followed by Scottsdale at 5.2%, Glendale at 4.9% and Tempe at 4.7%. Scottsdale still claims the top spot in actual average rent which at \$1,251 is the highest in the region.

## JUST DROPPED IN TO SEE WHAT CONDITION MY ASSUMPTIONS WERE IN

Based on Arizona Department of Administration (ADOA) population growth projections. Given higher realized occupancy rates, trending towards 95%, and population count, Phoenix's new apartment unit deficit is expected to increase to +/-32,000 units by 2020 if the higher population projections are realized. Below I detail each of the assumptions used in the chart while discussing their limitations and how changes in the assumptions can impact outcomes.

Population Data is based on Arizona Department of Administration's Low/Mid/ High Series Phoenix Metro (2015 to 2050) projections. According to ADOA, "Implied migration for 2013-2015 suggested that for Metro Phoenix and Arizona as a whole, the 2012 Medium Series assumptions were well within range of reality. For these reasons, it was decided that long-term migration assumptions would not be changed unless recent data warrant a reconsideration." (ADOA Methodology Report, Page 26, Section 4.5). Why is this important? With observed population growth trending higher, especially with Maricopa County as the top spot in the country for population growth, projected unit deficits could very well increase more than what is assumed in the chart.

Average Household (HH) Size is 2.75 and based off Census American Communities Survey (ACS) 2016-5yr estimates which were then averaged. Current estimates show this has been gradually increasing since 2013 at 2.73 to its current 2.76. It stands to reason that as housing costs have increased, persons, families and households have opted to increase their size - whether by adding a roommate, adult-age children living at home,

etc. - in order to offset the rising costs.

Renter Household (HH) Percentage is estimated at 37.8% and, like above, based off Census 2016 ACS-5yr average estimates. While averaging yields the 37.8% assumption it is lower than Census' current 38.6% estimate. Given Phoenix's higher than historical occupancy rates, as well as, significant increases in rentership, both at the younger and older end of the demographics spectrum, actual rentership levels should increase to +/-40% by 2020 if current housing trends hold.

Units Deliveries for 2018/19/20 are based on projects currently Under Construction (17,895 units, 50+ unit properties) with delivery expected by end of 2020. It should be noted that there are significant headwinds for the construction industry, most notably, lack of available workers and rising material costs. As more institutional, industrial (i.e. Intel) and state infrastructure projects begin in late 2018 and beyond, worker shortages might delay sub-100+ unit projects as demand outpaces supply of available workers particularly in finishing trades. How much lack of workers, and material costs, could disrupt the supply pipeline remains to be seen; nonetheless, it seems reasonable that higher unit deliveries, i.e. those above the current 18,574 unit delivery assumption, will not be seen or, if they do, mildly increase to  $\pm$ -20,000.

Occupancy Rate is based at 93.8% which is the average trailing observed occupancy rate from 2011 thru YTD 2018. When placed in context, Phoenix's historical average occupancy rate has ranged between 88 to 92% from 2000 to 2010. Beginning in 2011, after the GFC's apex, occupancy rates have adjusted significantly higher to a range of 92 to 96%.

Updating the chart to reflect the changes in assumptions as discussed above (and detailed below in Table 1), unit medium level demand increases 2.5% to 99,290 total new units needed (over the decade, 2010-2020) with approximately 80,000 units expected-to-be-delivered (over the decade, 2010-2020), which equates to ~19,000 unit deficit.

**Table 1: Updated Assumptions** 

Population = ADOA Medium Series Avg HH Size = 2.76 Renter HH Percentage = 38.6% Unit Deliveries = 20,000 Occupancy Rate = 94.5%

#### **FINAL THOUGHTS**

The Great Unknown

On the minds of all investors, what are the chances that the Fed will continue to raise interest rates? Being ever the contrarian, often times for contrarian sake, I still believe we are closer to negative rates than we are to 4%+ rates. Why do I think this? Given the length of our current recovery, second longest on record, we are probably closer to a correction than continued expansion. The caveat emptor, current growth has been spurred by tax cuts and deregulation which could certainly extend the bull market's rally longer than what many are predicting. Nonetheless, in previous recessions central bankers have, on average, needed to cut interest rates ~5% before normalizing policy. Given the Fed's current 1.5 to 1.75% target, negative rates could certainly be on the horizon.

According to GMO, a private investment management firm with over \$70B AUM (Assets Under Management), forward looking equity asset return estimates are all well below their historic 6.5% return mark, which has investors on the hunt for yield and, more importantly, stability. Stability, in today's world, is preservation of capital and cash flow. Multifamily has been, and continues to be, seen as providing that stability.

#### LIKE THIS ARTICLE?

REGISTER TODAY TO RECEIVE UPCOMING ABINSIGHT ARTICLES BY EMAIL:

ABIMultifamily.com/Registration

## **ABI COMPARATIVE MARKET REVIEW: 1Q 2018**

m-the		PHQENIX	TIGSON	SACRAMENTO	SAN DIEGO
	Total Population	4,737,270	1,026,099	2,296,418	3,317,749
HICS	Unemployment Rate (as of Mar '18)	4.1%	4.3%	3.9%	3.3%
DEMOGRAPHICS	Employment Growth (y-o-y)	3.2%	0.9%	2.1%	1.5%
DEMC	Median HH Income	\$55,547	\$46,764	\$62,813	\$66,529
	Per Capita Income	\$43,249	\$39,541	\$51,370	\$55,168
	Rent (1Q 2018)	\$1,040	\$831	\$1,399	\$1,885
(+	% Increase / Decrease	+5.8% ^	+4.8%	+7.0% ^	+6.3%
T (50-	Occupancy (1Q 2018)	94.7%	94.1%	96.3%	96.2%
-RENT/OCC/CONST (50+)	% Increase / Decrease	-0.4% 🗸	-0.2% 💙	-0.8% 🛩	-1.0% 💙
11/000	Total Inventory (50+)	301,024	67,093	126,891	181,587
REN	Total Under Construction (50+)	17,895	796	2,913	7,812
	Units Delivered (50+, 1Q 2018)	1,630	N/A	80	1,467
	Total Sales Volume (1Q 2018)	\$1.4B	\$131M	\$330M	\$65M
- (+05	y-o-y % Increase / Decrease	+96% ^	-10% 💙	+112% 🔨	-14%
——SALES (50+)	Average P/U (10 2018)	\$156,116	\$59,204	\$137,996	\$198,702
	y-o-y % Increase / Decrease	+56% ^	+37%	-26% 🛩	+10%



#### LEADING MULTIFAMILY BROKERAGE TEAM IN THE WESTERN US

OVER 200 YEARS OF COMBINED MULTIFAMILY BROKERAGE EXPERIENCE SEASONED ADVISORS WITH REGIONAL INSIGHT **COLLABORATION & COOPERATION** 

#### NOTABLE RECENT ABI MULTIFAMILY TRANSACTIONS

100+ UNIT PROPERTIES











#### RIO SANTA FF

1600 West 12th Street. Yuma, AZ

Price: \$19,500,000 Units: 312 Year Built:1990

#### RENUE ON ORANGE

1137 East Orange Street, Tempe, AZ

Price: \$13,000,000 Units: 110 Year Built: 1968

#### SOLTERRA ON FIFTH AVENUE

4350 North 5th Avenue. Phoenix. AZ

Price: \$6,000,000 Units: 41 Year Built: 2006

#### ARCADIA EDGE

3120 - 3130 North 39th Street. Phoenix. AZ

Price: \$4,350,000 Units: 23 Year Built: 1967

#### APARTMENT BROKERAGE & ADVISORY FIRM

ABI Multifamily is a brokerage and advisory services firm that focuses exclusively on apartment investment transactions. The experienced advisors at ABI Multifamily have completed billions of dollars in sales and thousands of individual multifamily transactions.

#### PHOENIX ADVISORS

JOHN KOBIEROWSKI

SENIOR MANAGING PARTNER

**BRAD PICKERING** 

SENIOR VICE PRESIDENT

**ALON SHNITZER** 

SENIOR MANAGING PARTNER

**NATHAN BRUER** 

**VICE PRESIDENT** 

**RUE BAX** 

SENIOR MANAGING PARTNER

PATRICK BURCH

VICE PRESIDENT

**DOUG LAZOVICK** 

PARTNER

JOHN KLOCEK

VICE PRESIDENT

**EDDIE CHANG** 

PARTNER

**ROYCE MUNROE** 

VICE PRESIDENT

**CHUCK LABENZ** 

SENIOR VICE PRESIDENT

RYAN SMITH

VICE PRESIDENT

#### PHOENIX HEADQUARTERS

5227 North 7th Street Phoenix, AZ 85014 602.714.1400

#### **SACRAMENTO OFFICE**

2251 Douglas Blvd, Suite 115 Roseville, ČA 95661 916.330.4040

CA Lic #02015648

#### SAN DIEGO OFFICE

1012 2nd Street, Suite 100 Encinitas, CA 92024

858.256.7690 CA Lic #02015648

#### **TUCSON OFFICE**

1650 North Kolb Road, Suite 230 Tucson, AZ 85715 520.265.1945

DISCLAIMER © 2018 ABI Multifamily | The information and details contained herein have been obtained from third-party sources believed to be reliable; however, ABI Multifamily has not independently verified its accuracy. ABI Multifamily makes no representations, guarantees, or express or implied warranties of any kind regarding the accuracy or completeness of the information and details provided herein, including but not limited to the implied warranty of suitability and fitness for a particular purpose. Interested parties should perform their own due diligence regarding the accuracy of the information. SOURCES: ABI Research / Bureau of Labor Statistics / Census Bureau / YARDI Matrix / Vizzda / US Chamber of Commerce / RED Comps / ARMLS

