PHILADELPHIA REGIONAL HOUSE PRICE INDICES

November 30, 2017



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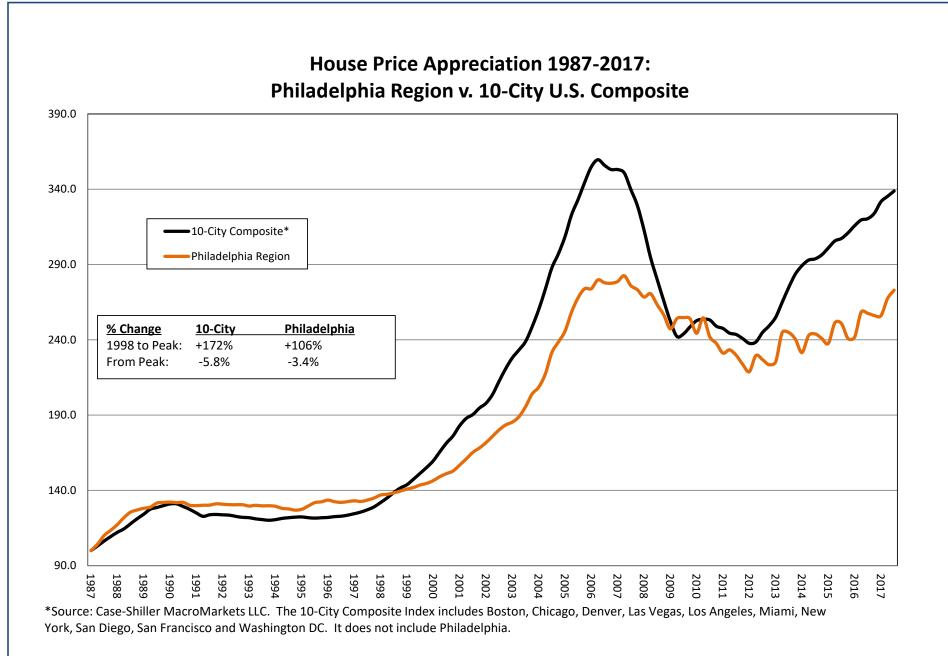
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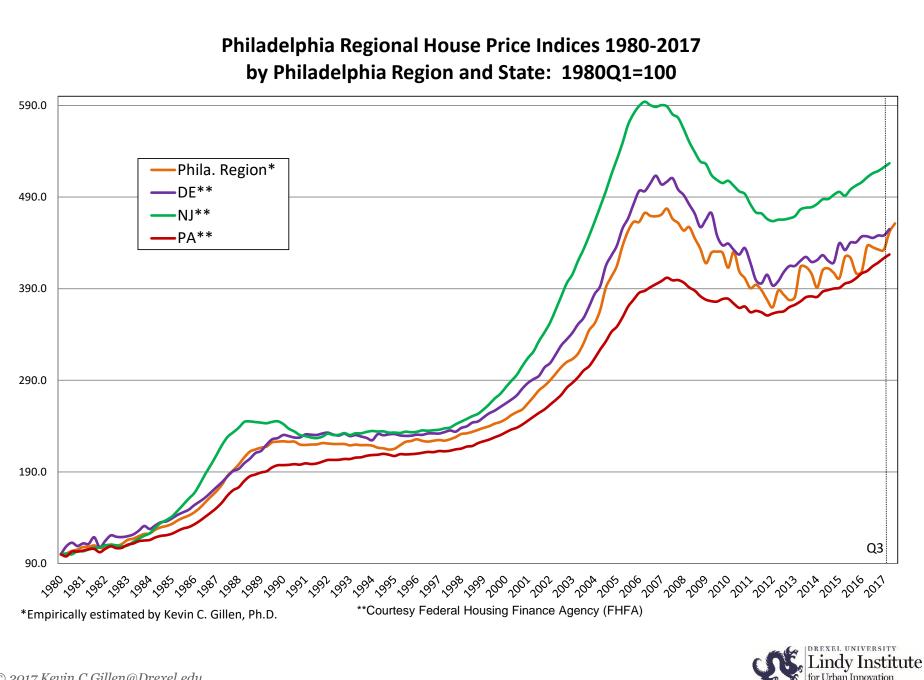
Philadelphia Regional House Price Indices 1980-2017 1980Q1=100 540.0 490.0 -Phila. Region* 440.0 —U.S. Avg.** 390.0 340.0 290.0 240.0 190.0 140.0 Q3 90.0 1996 1988 1989 1998 1999 2001 2002 2003 2004 2005 2005 2005 2007 2009 2009 2011 2011 2013 2015 2015 2016 2017 1986 1990 1994 1995 1980 1981 1982 1983 1984 1985 1987 1991 1992 1993 1997 **Courtesy Federal Housing Finance Agency (FHFA) *Empirically estimated by Kevin C. Gillen, PhD

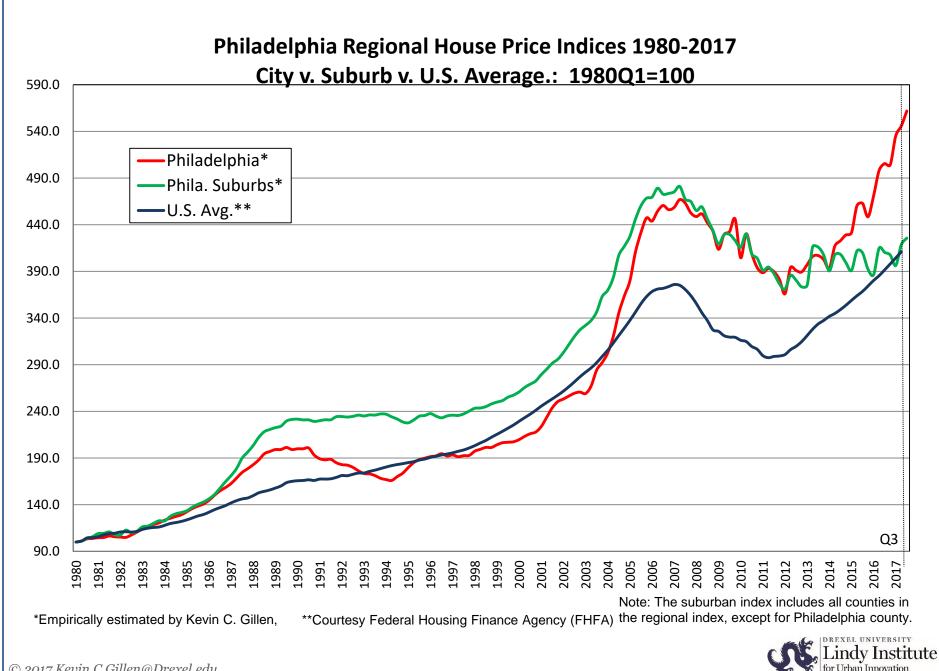
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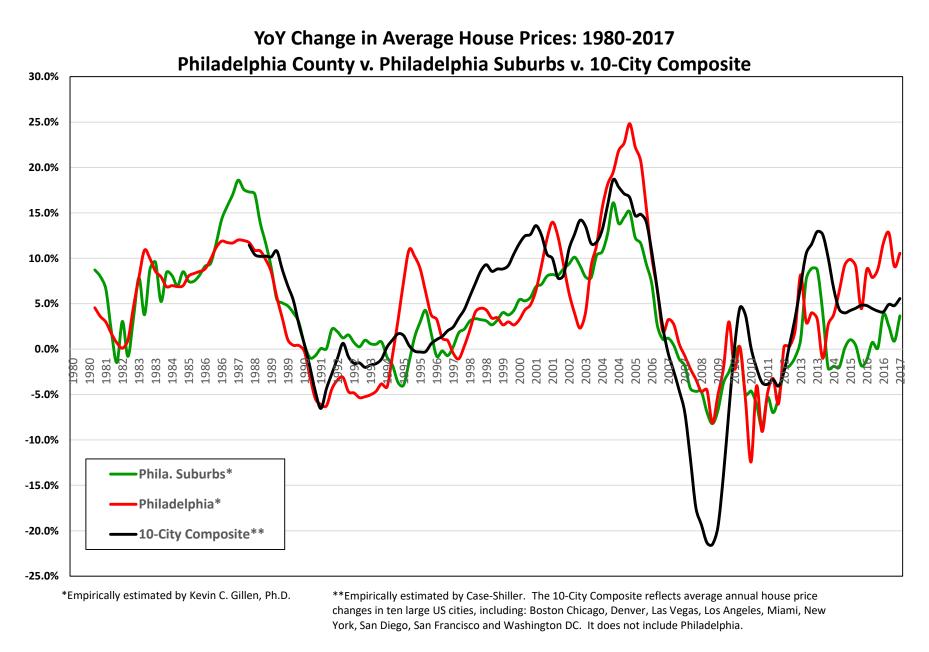
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Total House Price Appreciation Rates by Philadelphia Area Submarket and U.S.

Period	Philadelphia Region*	Philadelphia County*	Philadelphia Suburbs*	U.S.A. **	
38-Year	152.9%	172.6%	144.8%	141.3%	
10-Year	-1.1%	19.3%	-9.4%	9.1%	
1-Year	5.8%	10.6%	3.7%	6.4%	
1-Quarter	2.1%	2.9%	1.7%	1.6%	

*Empirically estimated by Kevin C. Gillen Ph.D.

**Source: Federal Housing Finance Agency (FHFA). FHFA numbers are through 2017 Q2 only.

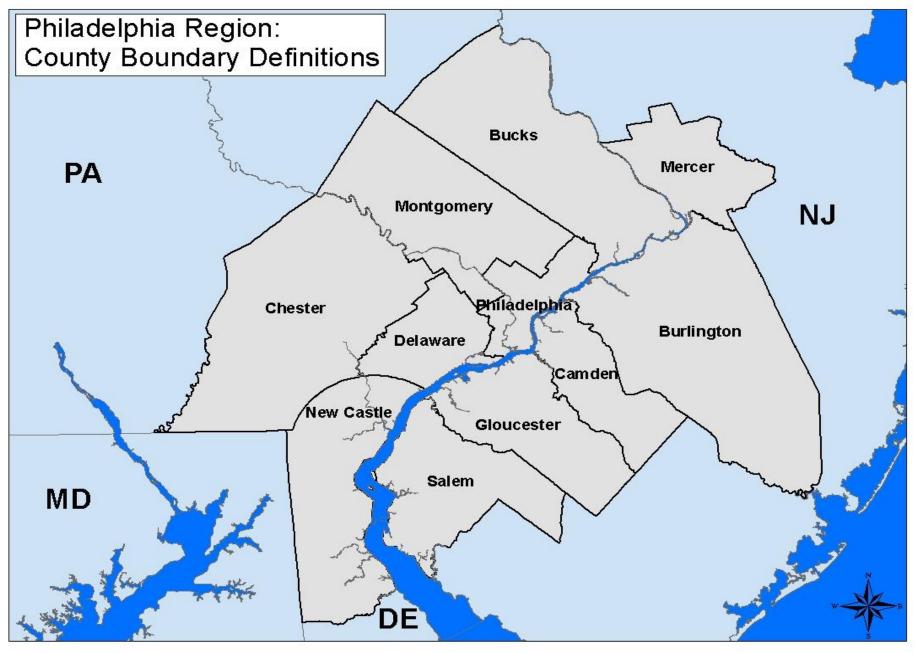


Philadelphia Region House Price Appreciation Rates by County

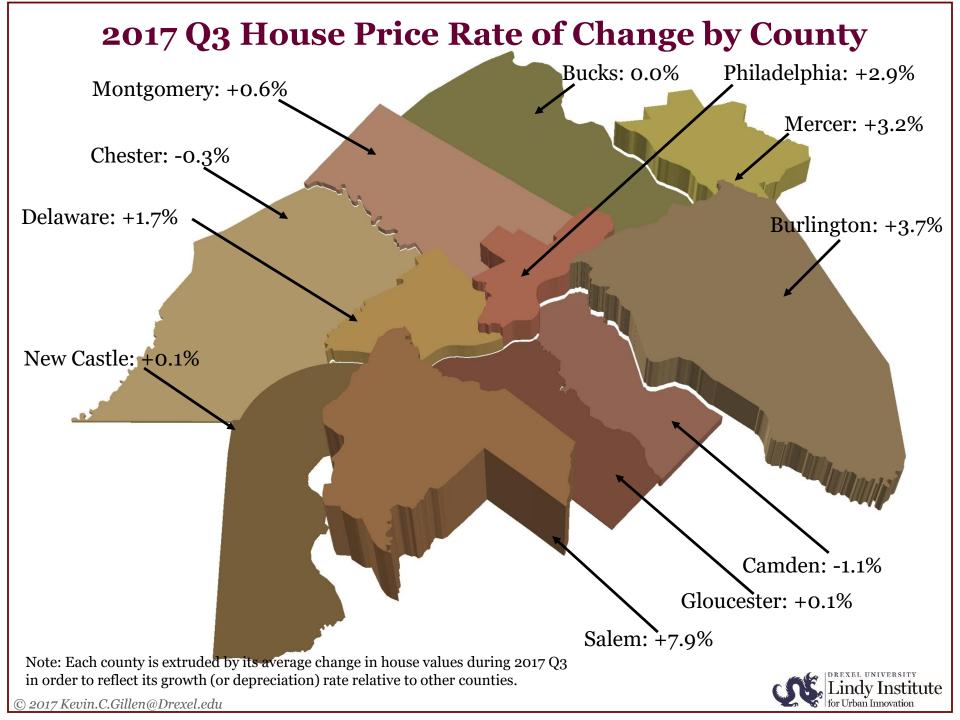
Period	Philadelphia	Bucks	Chester	Delaware	Montgomery	New Castle	Mercer	Burlington	Camden	Gloucester	Salem
38-Year	173%	164%	159%	138%	150%	137%	163%	124%	118%	134%	112%
10-Year	19.3%	-2.4%	0.3%	-12.3%	-6.5%	-13.5%	-11.2%	-24.6%	-29.1%	-20.9%	-43.3%
1-Year	10.6%	6.6%	4.0%	4.5%	5.5%	3.6%	4.3%	2.0%	1.7%	-0.9%	1.2%
1-Quarter	2.9%	0.0%	-0.3%	1.7%	0.6%	0.1%	3.2%	3.7%	-1.1%	0.1%	7.9%

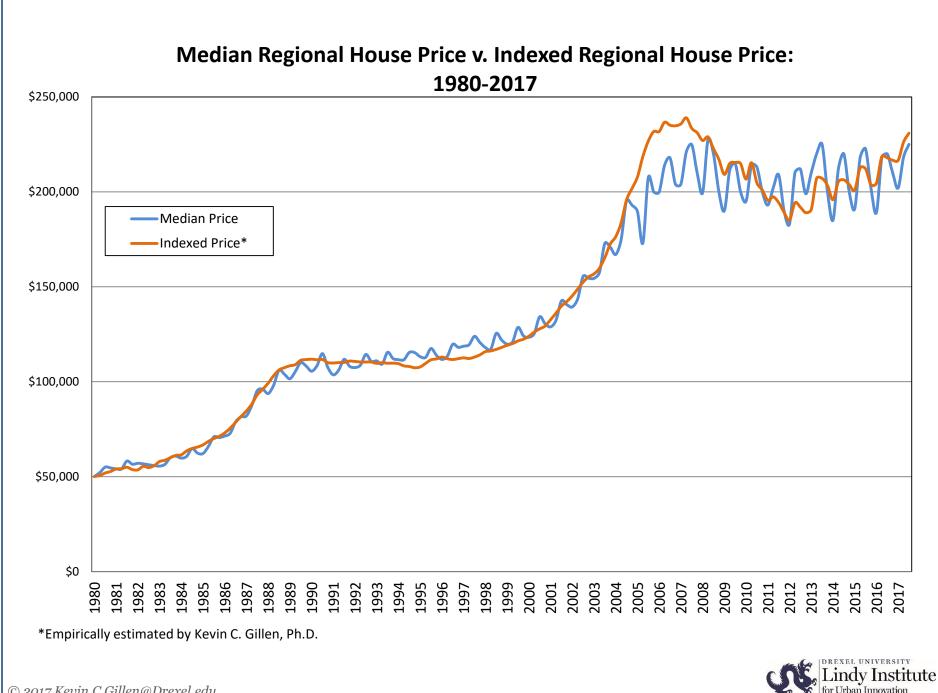
All county-level indices and appreciation rates estimated by Kevin C. Gillen, Ph.D.



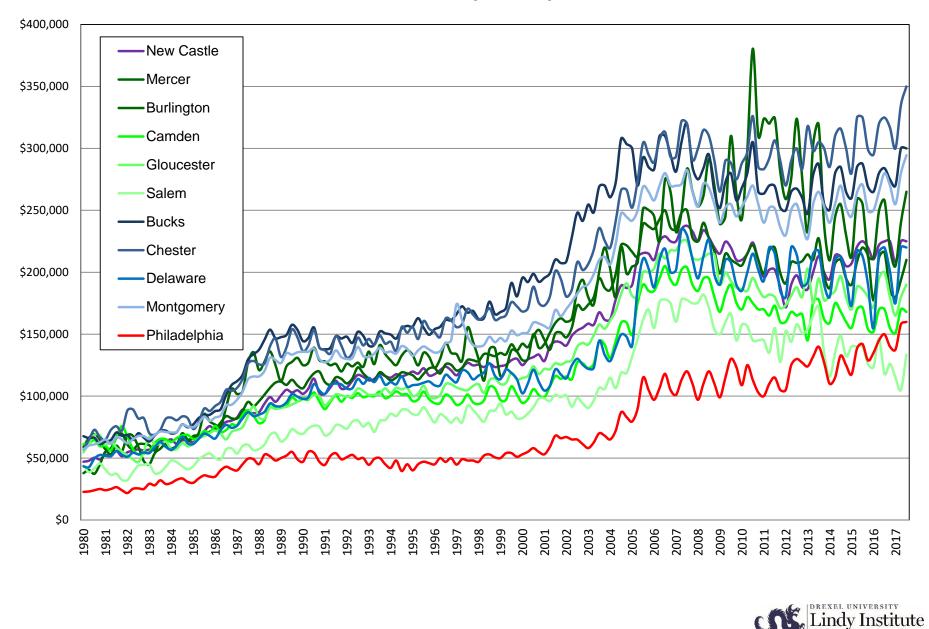




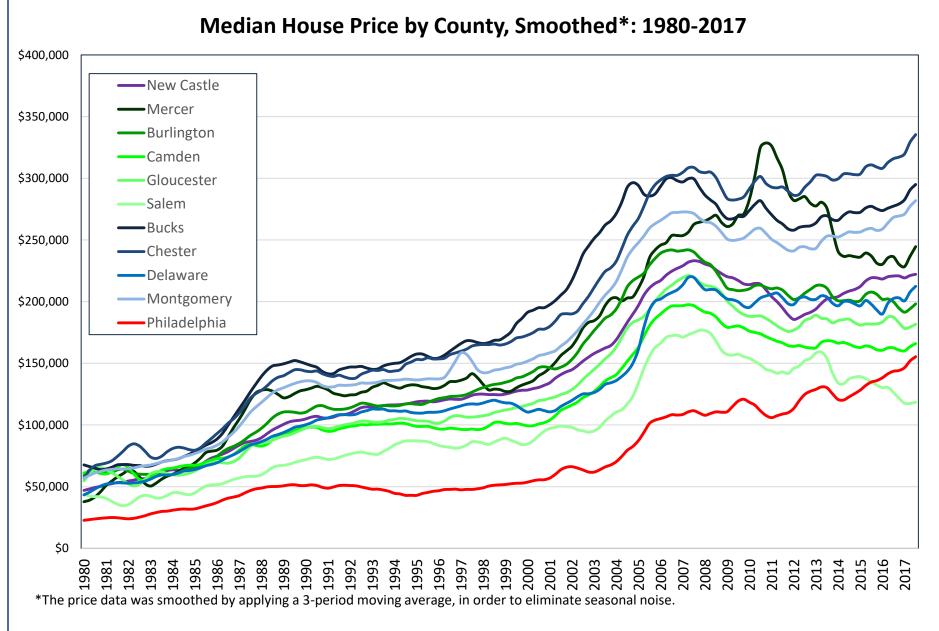




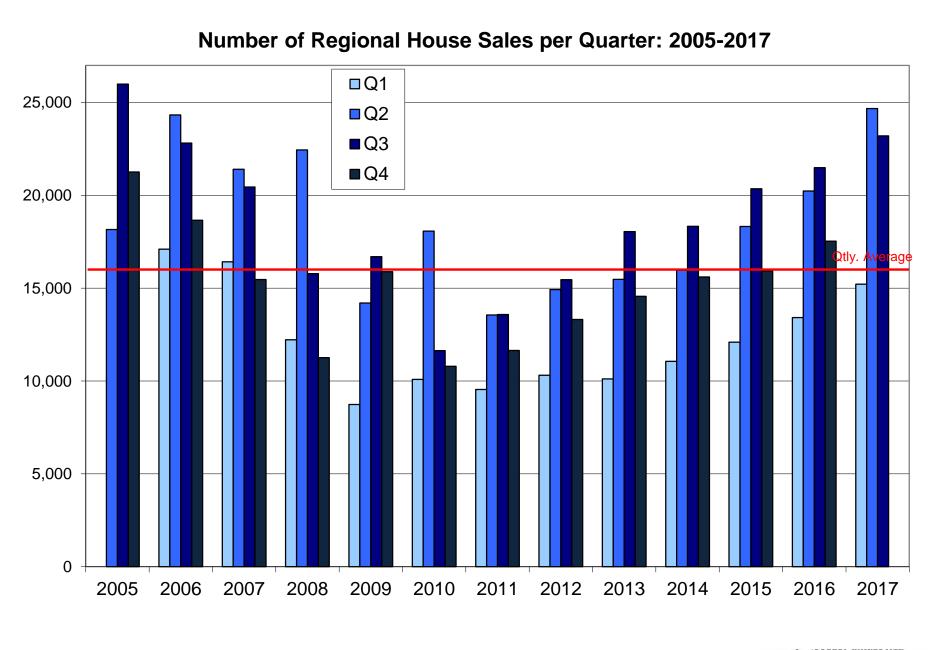
Median House Price by County: 1980-2017



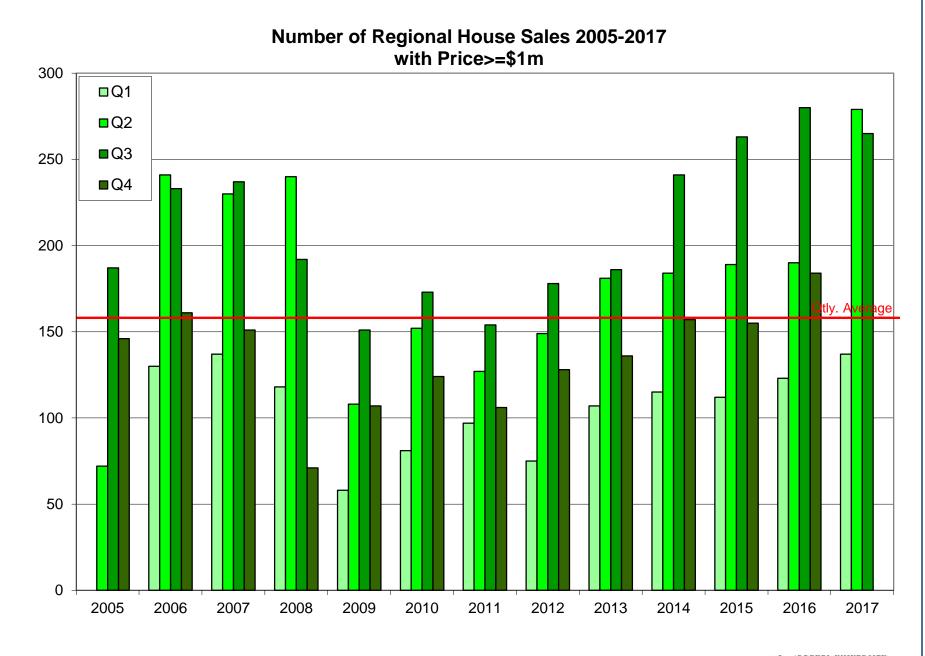
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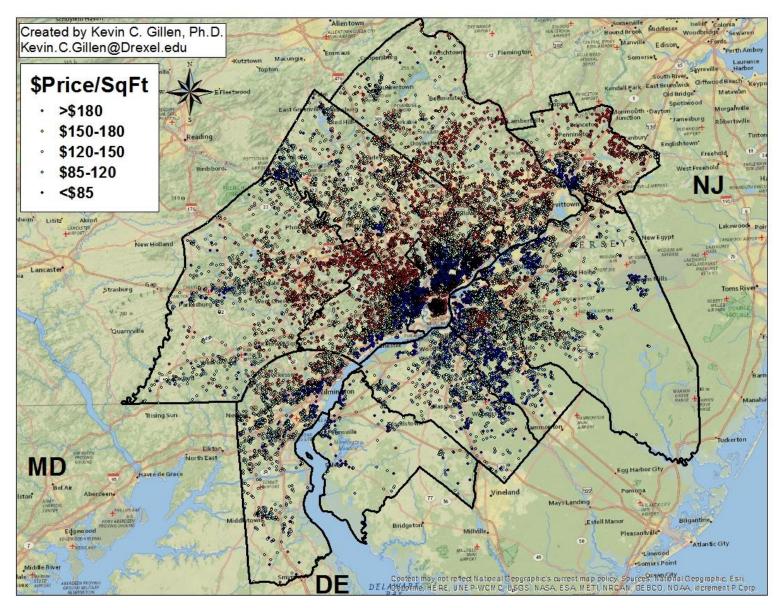








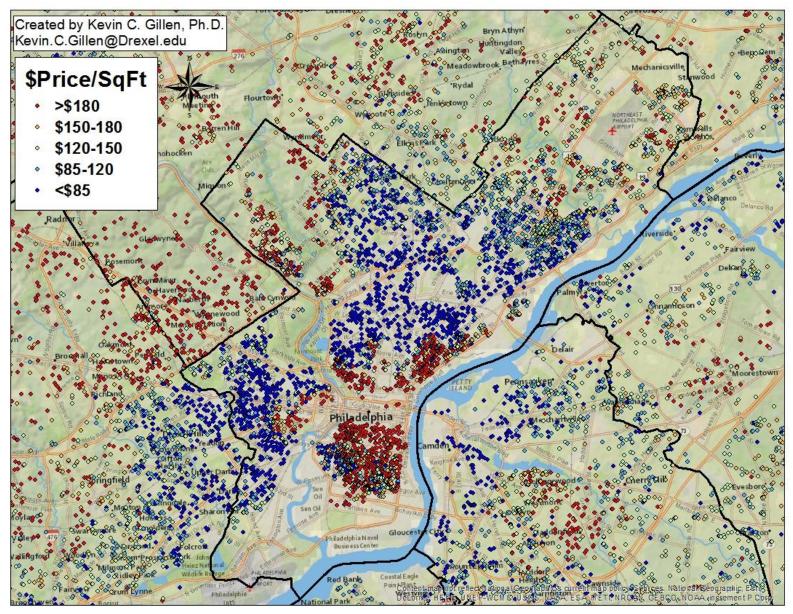
Philadelphia Region House Sales in 2017 Q3



Note: the categories for \$price/sqft are based upon the quintiles of its distribution. Hence, exactly 20% of all sales fall into each one of the five categories.

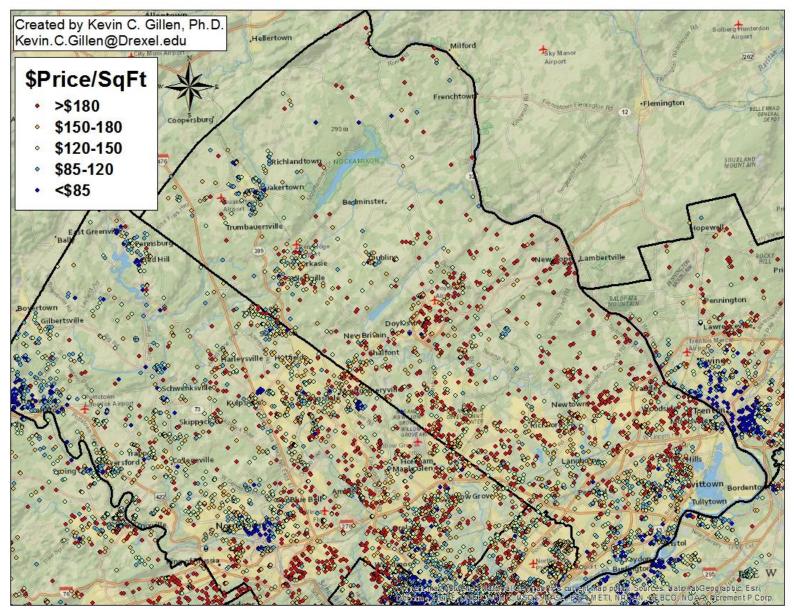


Philadelphia County House Sales in 2017 Q3



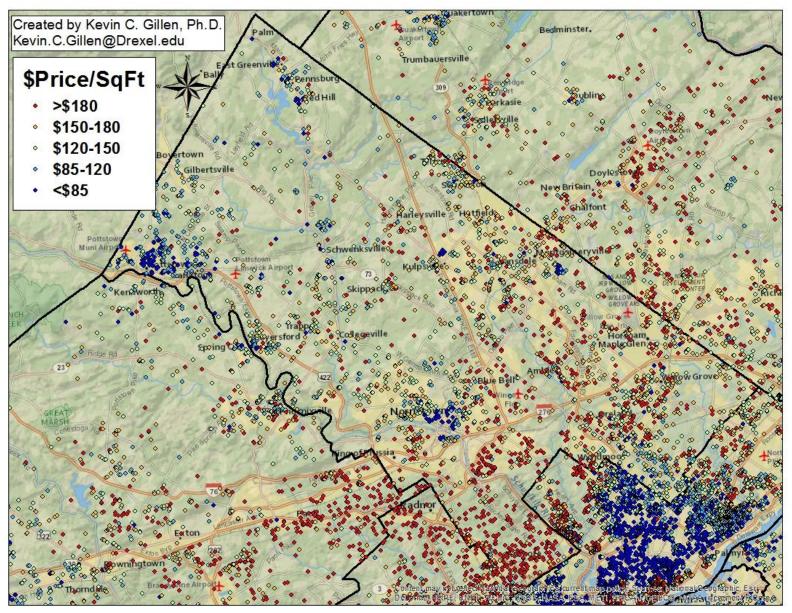


Bucks County House Sales in 2017 Q3



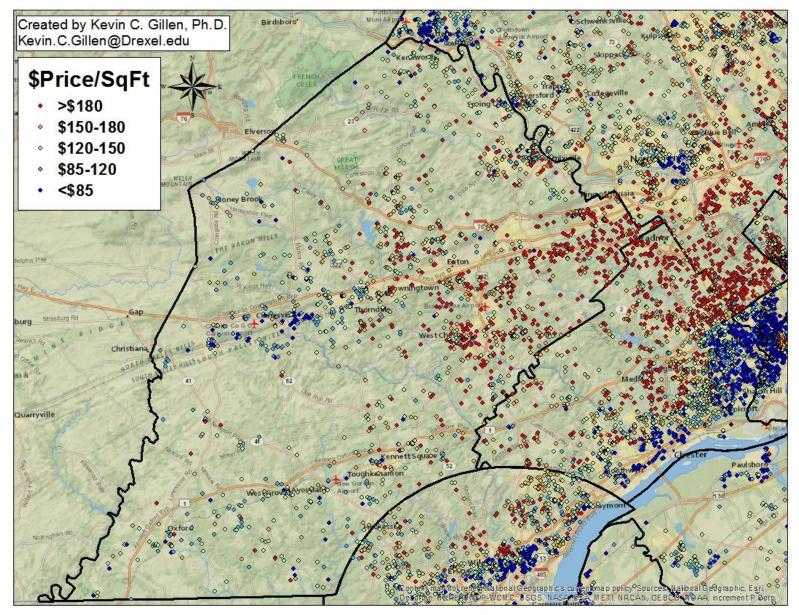


Montgomery County House Sales in 2017 Q3



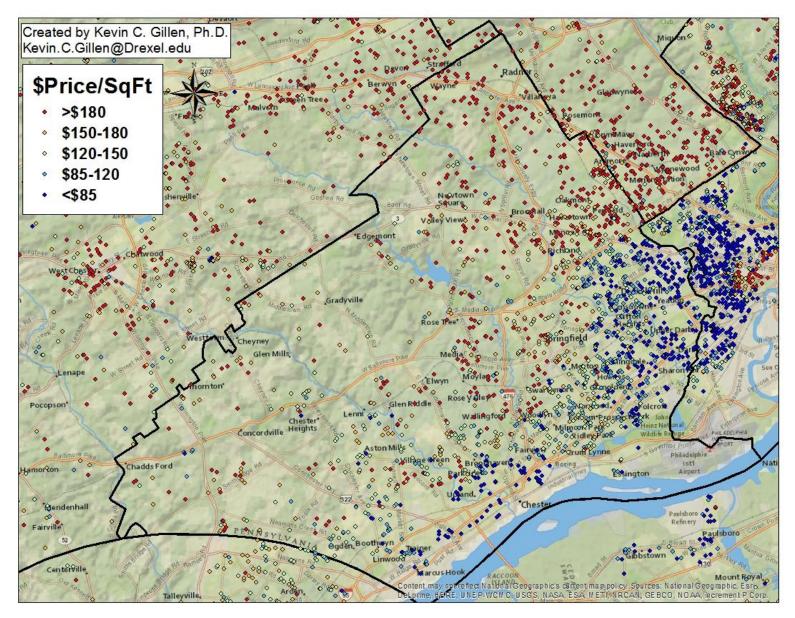


Chester County House Sales in 2017 Q3



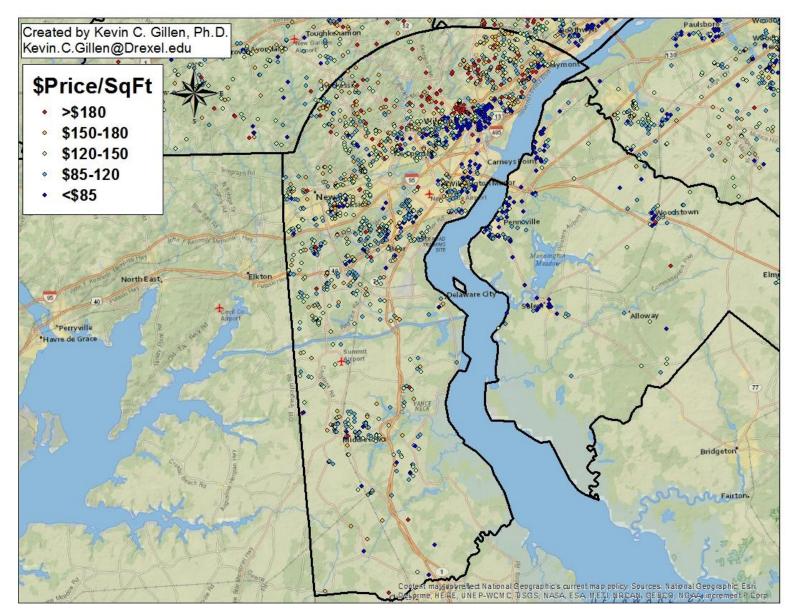


Delaware County House Sales in 2017 Q3



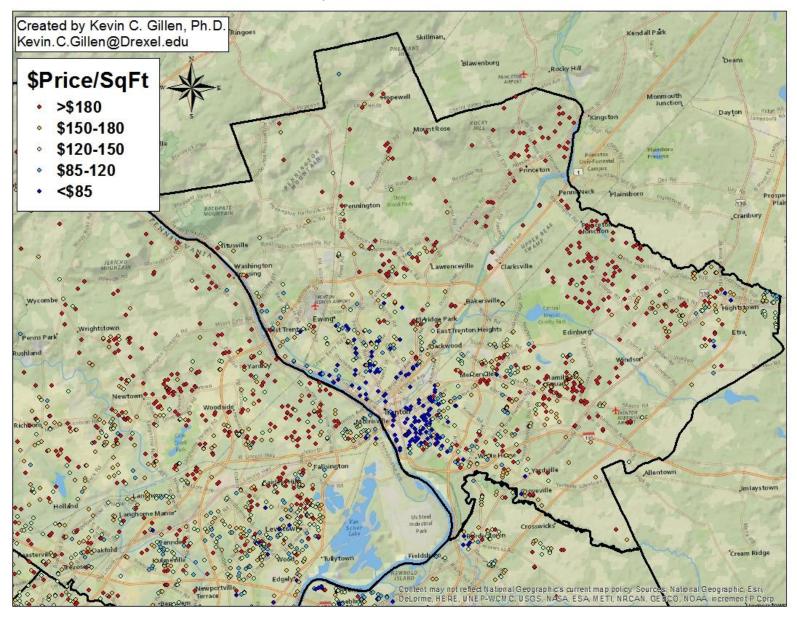


New Castle County House Sales in 2017 Q3



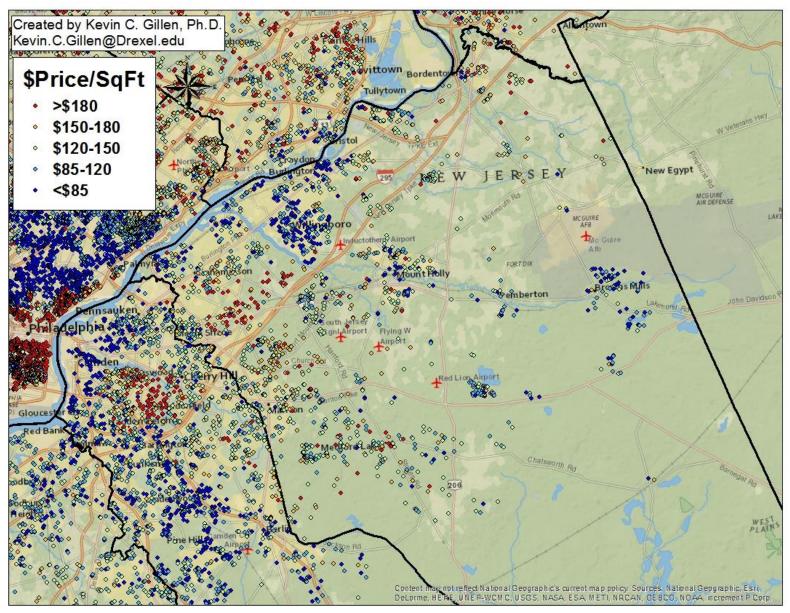


Mercer County House Sales in 2017 Q3



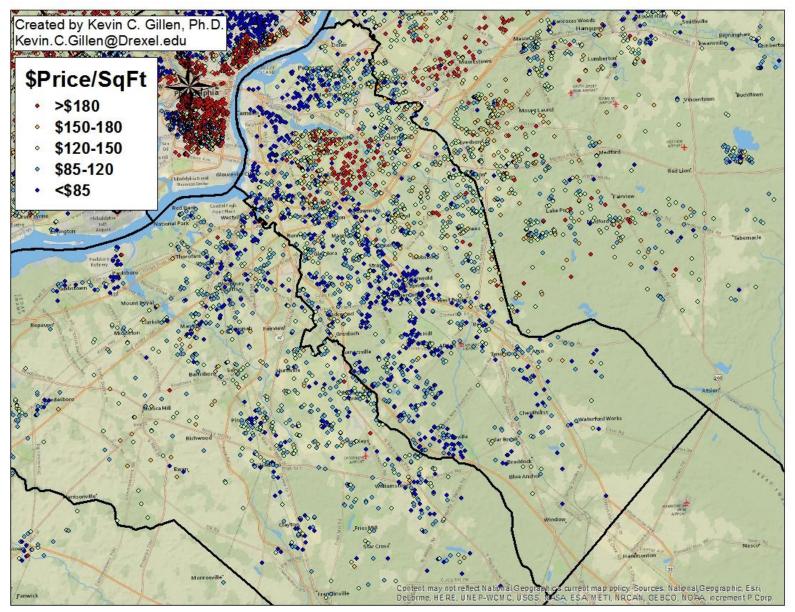


Burlington County House Sales in 2017 Q3



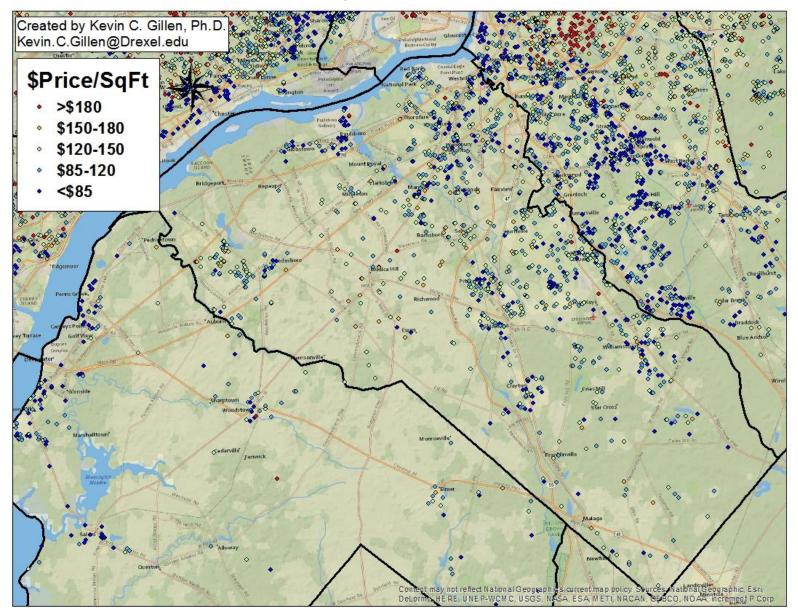


Camden County House Sales in 2017 Q3



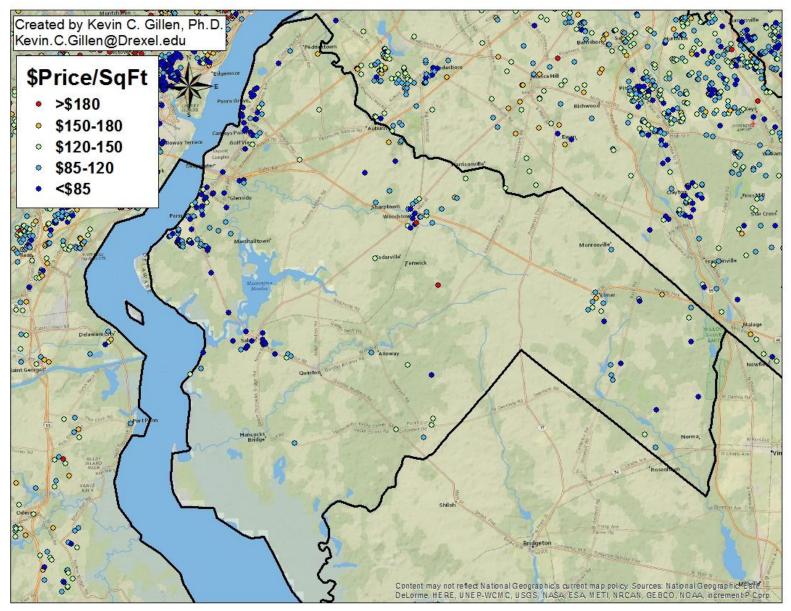


Gloucester County House Sales in 2017 Q3



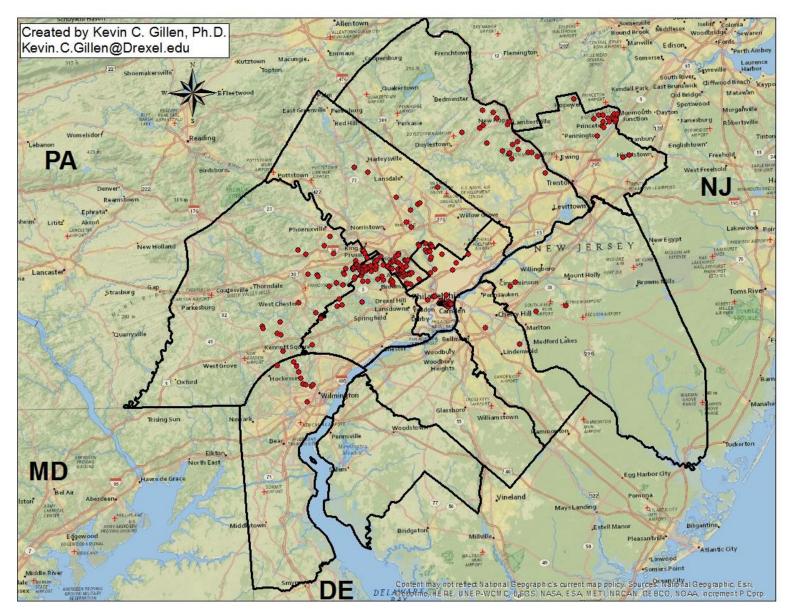


Salem County House Sales in 2017 Q3

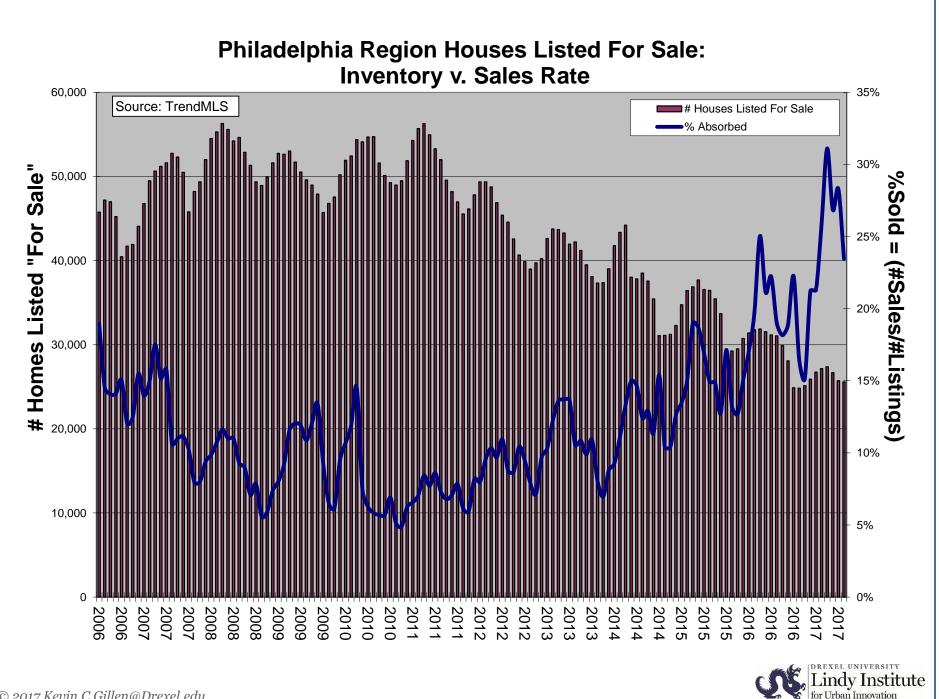


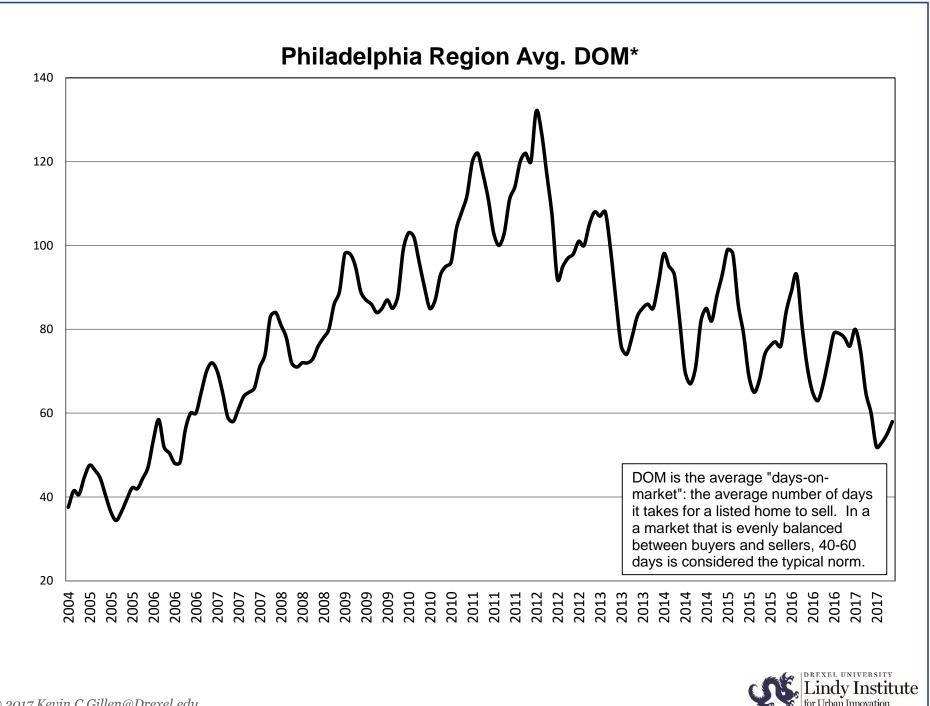


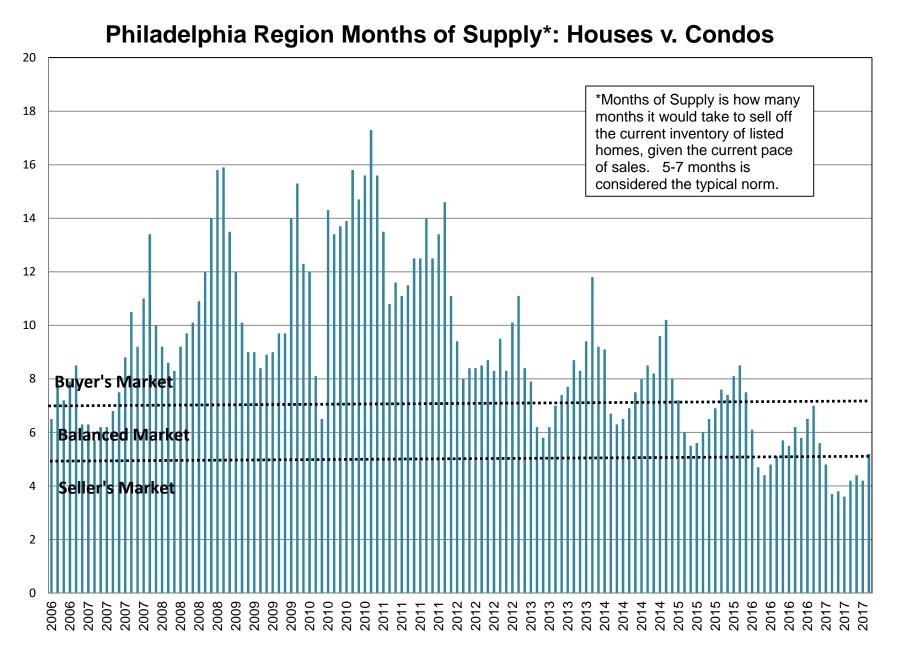
+\$1 Million Dollar House Sales in 2017 Q3













Pennsylvania Foreclosure Rates

October 2017

FORECLOSURE RATES FOR PENNSYLVANIA

Pennsylvania 1 in every 1912

Top 5 Counties

Delaware 1 in every 783

Berks 1 in every 1090

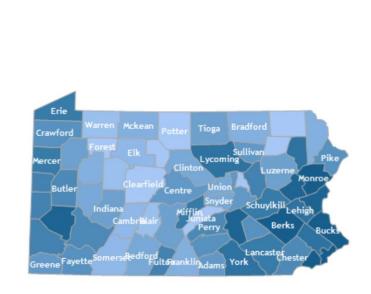
Philadelphia 1 in every 1105

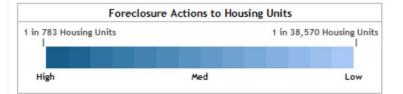
Bucks 1 in every 1128

Monroe 1 in every 1218

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1 out of every 1,105 homes in Philadelphia is currently in the process of foreclosure, which is down from 1 out of every 1,062 homes in the previous quarter.

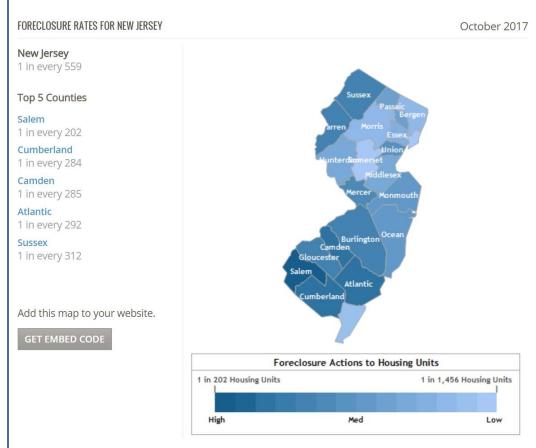
In the entire

Commonwealth, 1 out of every 1,912 homes in Pennsylvania is in the process of foreclosure, which is also down from 1 out of every 1,895 homes in the previous quarter.



Source: http://www.realtytrac.com/statsandtrends/foreclosuretrends/pa © 2017 Kevin.C.Gillen@Drexel.edu

New Jersey Foreclosure Rates

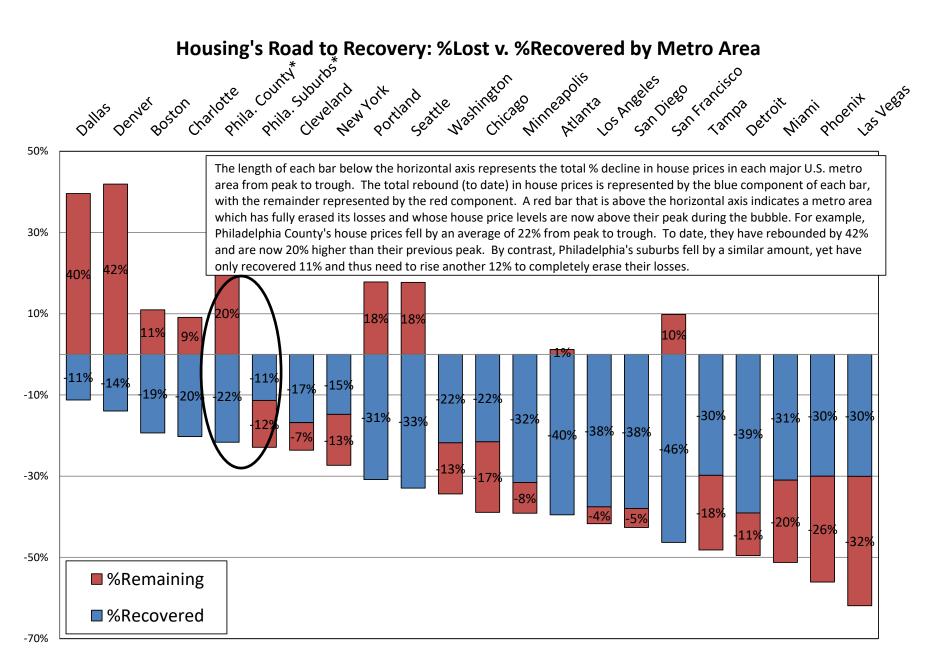


South Jersey's foreclosure rate continues to remain the highest in the region, and also showed further deterioration this quarter.

The six counties in Southern NJ (excluding Cape May) collectively have a foreclosure rate averaging one in every 285 homes. This is well above the statewide average of 1 in every 559 homes.

And, the foreclosure rate for South Jersey increased this quarter, up from its previous level of 1 in every 343 homes in the previous quarter.







*Empirically estimated by Kevin C. Gillen, Ph.D. All other metros courtesy of S&P Case-Shiller.