PHILADELPHIA HOUSE PRICE INDICES

August 2, 2018



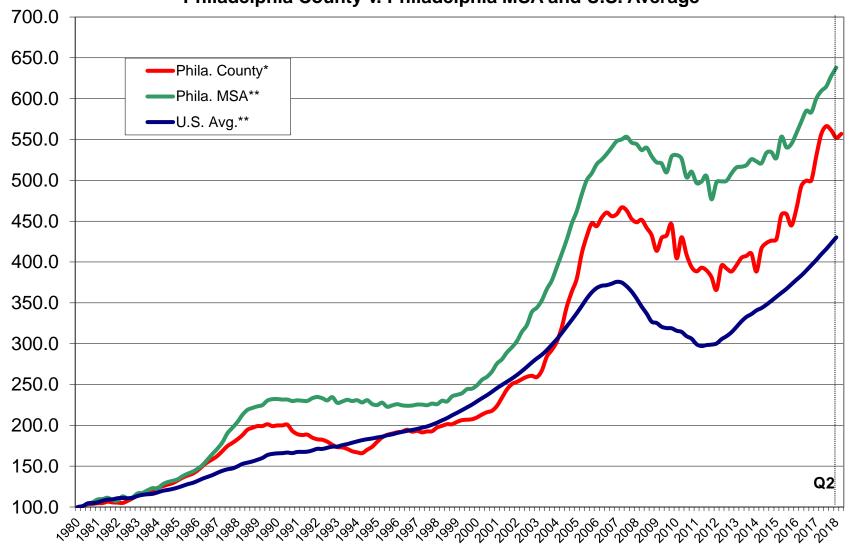
KEVIN C. GILLEN, Ph.D.

Kevin.C.Gillen@Drexel.edu

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House Price Indices 1980-2018: 1980Q1=100 Philadelphia County v. Philadelphia MSA and U.S. Average



^{*} Empirically estimated by Kevin C. Gillen, Ph.D.

"MSA"=Metropolitan Statistical Area, which is the entire 10-county region.



^{**}Courtesy of the Federal Housing Finance Agency (FHFA). These HPIs are current through 2016Q4 only.

Total House Price Appreciation Rates by Geographic Market

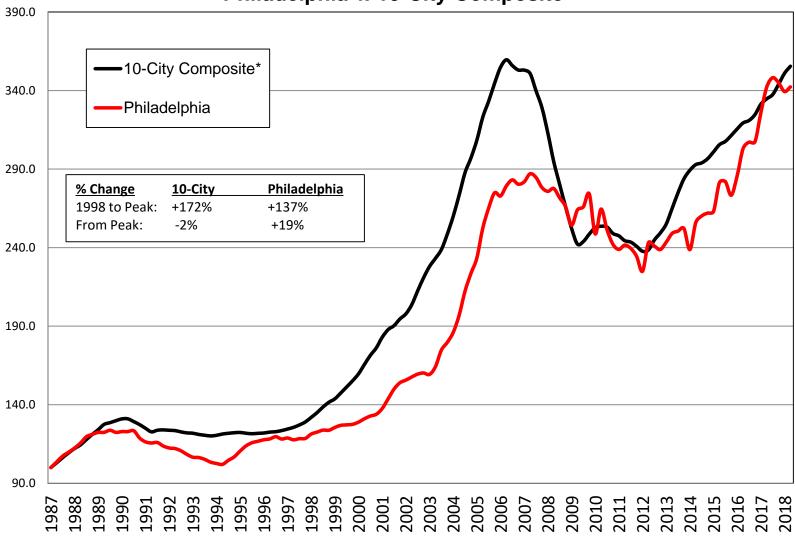
Period	Philadelphia County*	Philadelphia MSA**	U.S.A.**
38-Year	171.7%	183.7%	144.2%
10-Year	21.0%	13.9%	15.1%
1-Year	0.0%	7.4%	6.6%
1-Quarter	0.9%	2.1%	1.7%

^{*}Empirically estimated by Kevin C. Gillen Ph.D.



^{**}Source: U.S. Federal Housing Finance Agency (FHFA). These numbers are through 2018Q1 only. "MSA"="Metropolitan Statistical Area", which is the entire 10-county region.

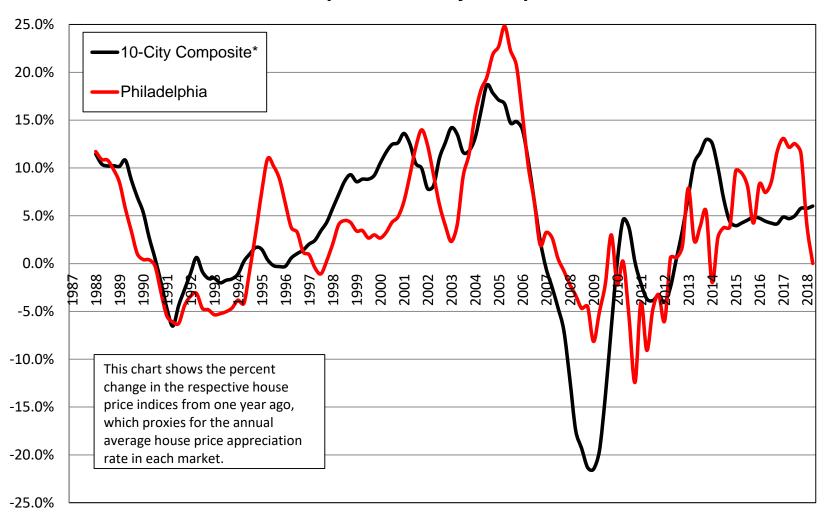
House Price Appreciation 1987-2018: Philadelphia v. 10-City Composite



*Source: S&P/Case-Shiller. The 10-City Composite index includes Boston, Chicago, Denver, Las Vegas, Los Angeles, Miami, New York, San Diego, San Francisco, and Washington, DC. It does not include Philadelphia.



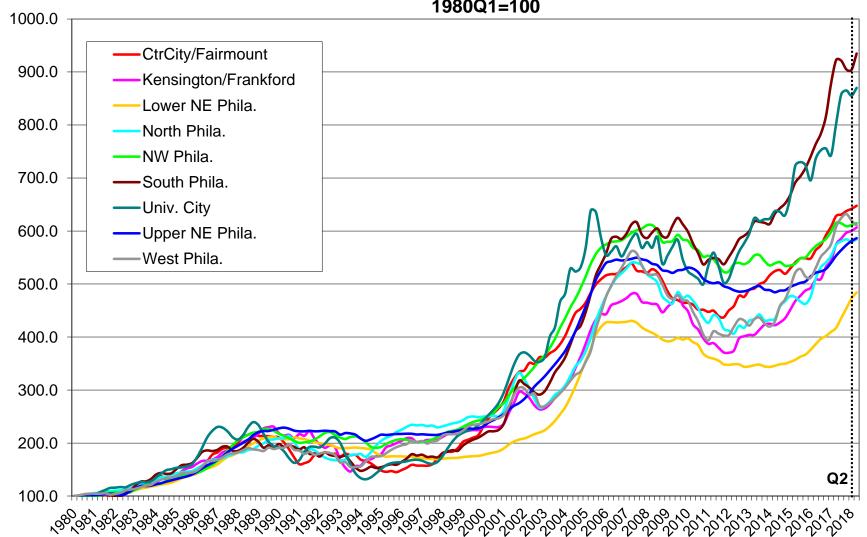
YoY House Price Change (%) 1987-2018: Philadelphia v. 10-City Composite





^{*}Source: S&P/Case-Shiller. The 10-City Composite index includes Boston, Chicago, Denver, Las Vegas, Los Angeles, Miami, New York, San Diego, San Francisco, and Washington, DC. It does not include Philadelphia.

Philadelphia House Price Indices by Neighborhood: 1980-2018 1980Q1=100





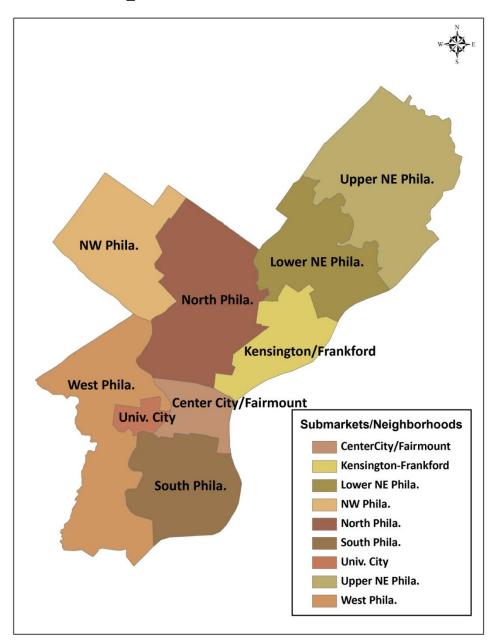
Philadelphia House Price Appreciation Rates by Submarket

Period	Center City/ Fairmount	Kensington /Frankford	Lower NE Phila.	North Phila.	NW Phila.	South Phila.	Univ. City	Upper NE Phila.	West Phila.
38-year	186.8%	180.3%	157.7%	176.6%	181.6%	223.5%	216.3%	176.9%	181.0%
10-year	20.5%	27.2%	17.1%	13.3%	0.6%	44.8%	42.5%	8.6%	16.6%
1-Year	3.0%	5.4%	14.8%	1.9%	-0.1%	1.3%	8.0%	5.8%	0.4%
1-Quarter	0.9%	1.0%	2.3%	0.8%	0.6%	3.3%	1.7%	0.9%	-1.5%

This table gives the total % change in average house values by submarket, through 2018 Q2, from different starting points in time.

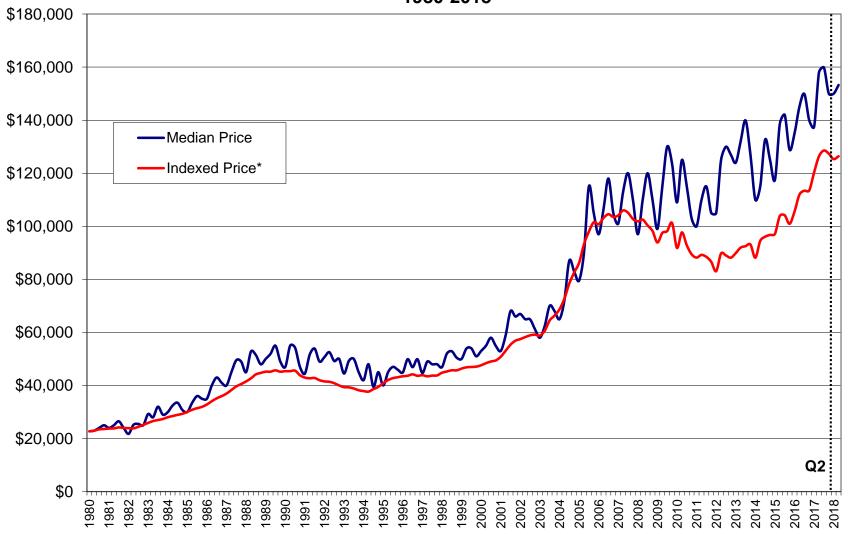


Philadelphia Submarket Boundaries



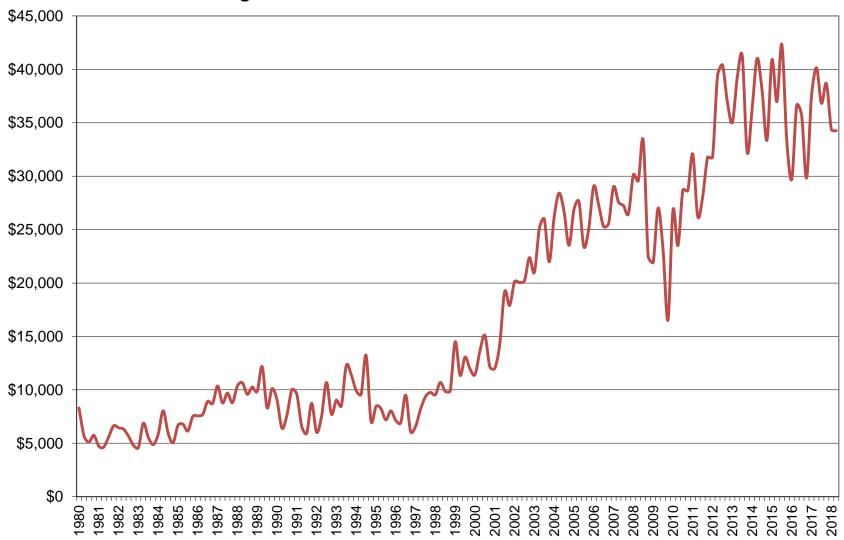


Median Philadelphia House Price v. Indexed Philadelphia House Price 1980-2018



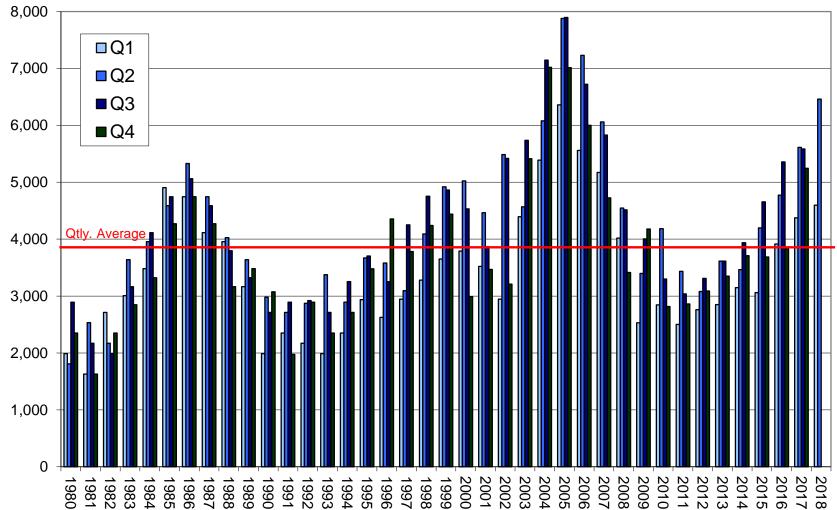


Average House Price Minus Median House Price: 1980-2018



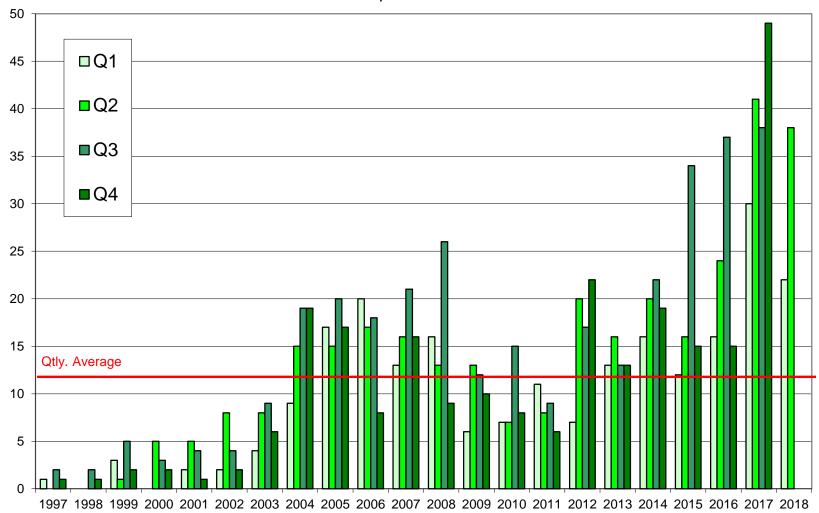


Number of Philadelphia House Sales* per Quarter: 1980-2018



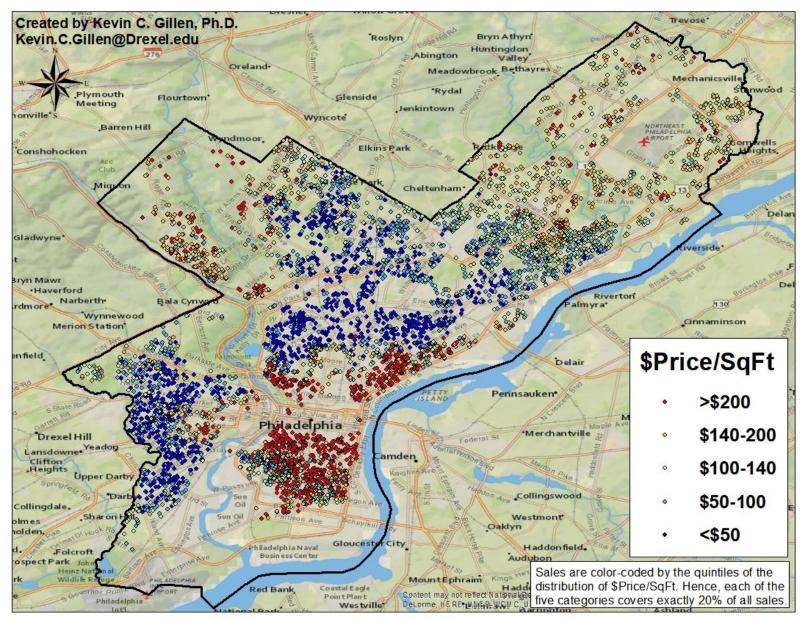


Number of Philadelphia Home Sales* per Quarter with Price>=\$1 Million: 1997-2018

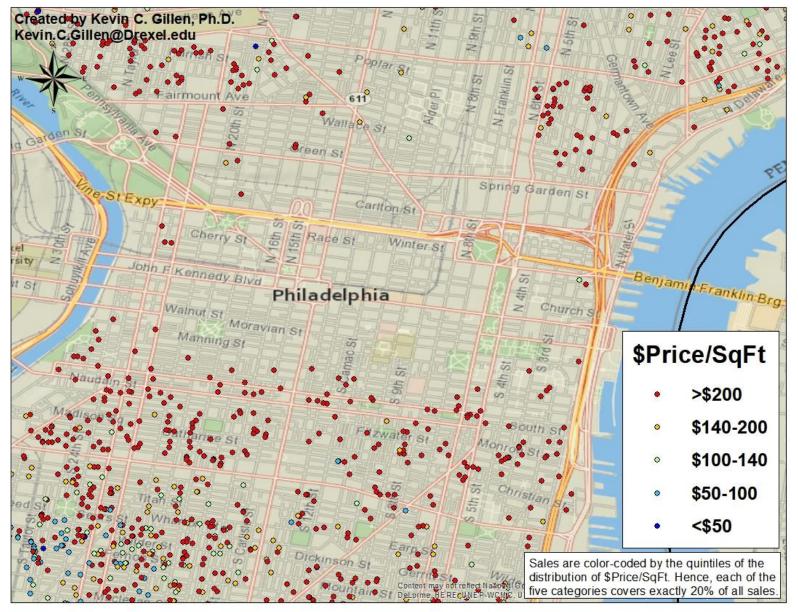




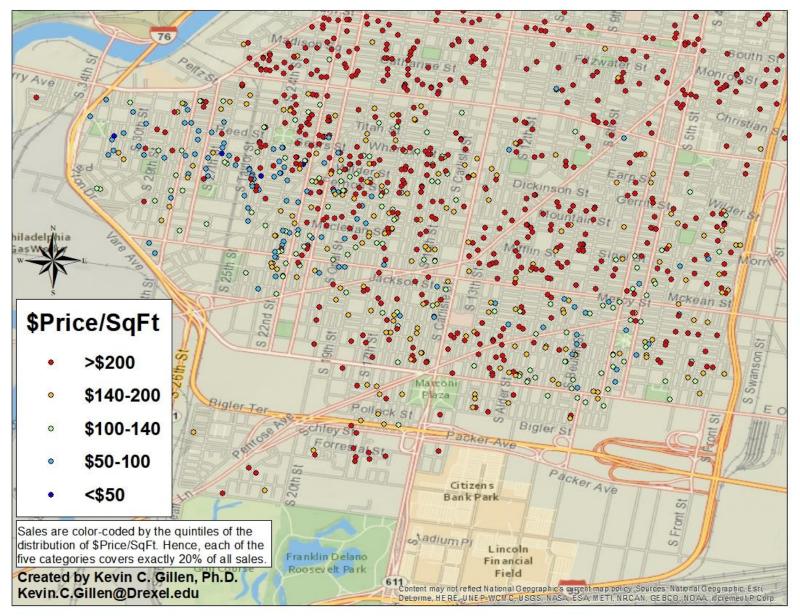
Philadelphia House Sales in 2018 Q2



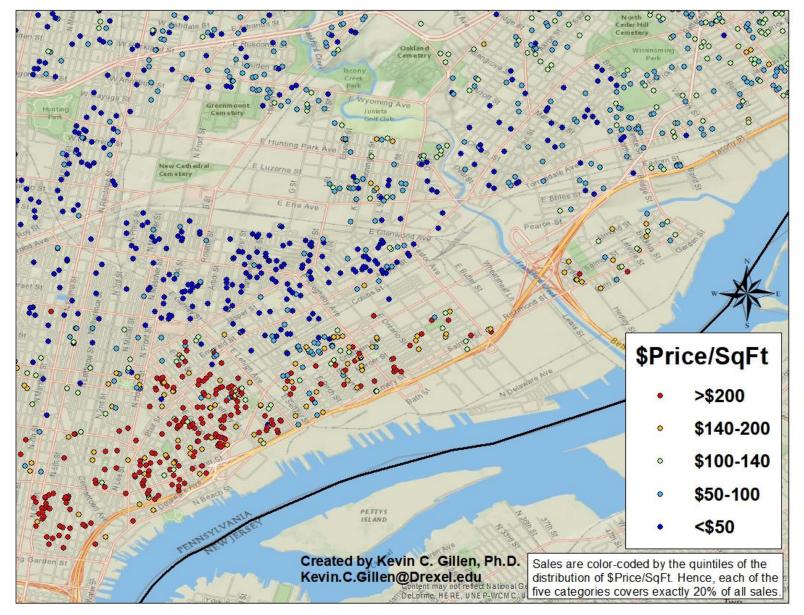
Center City House Sales in 2018 Q2



South Philadelphia House Sales in 2018 Q2

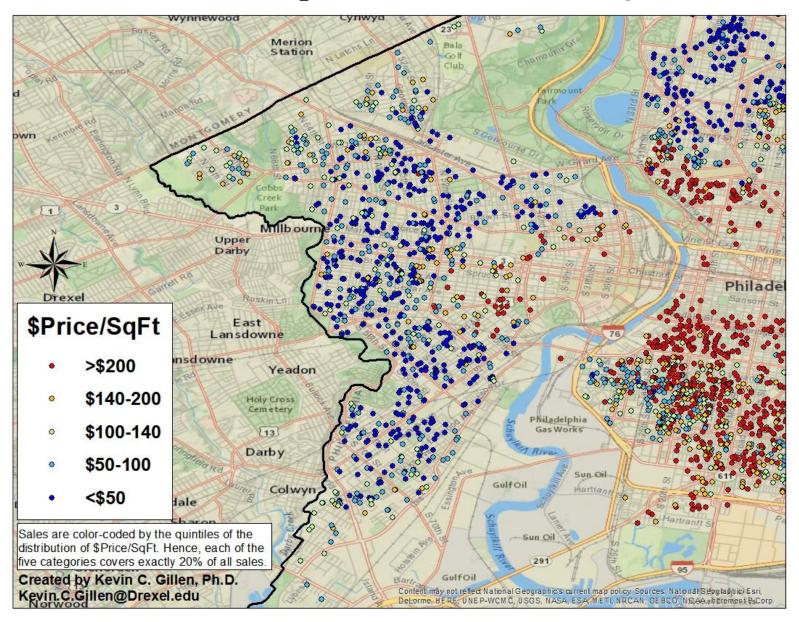


Kensington/Frankford House Sales in 2018 Q2



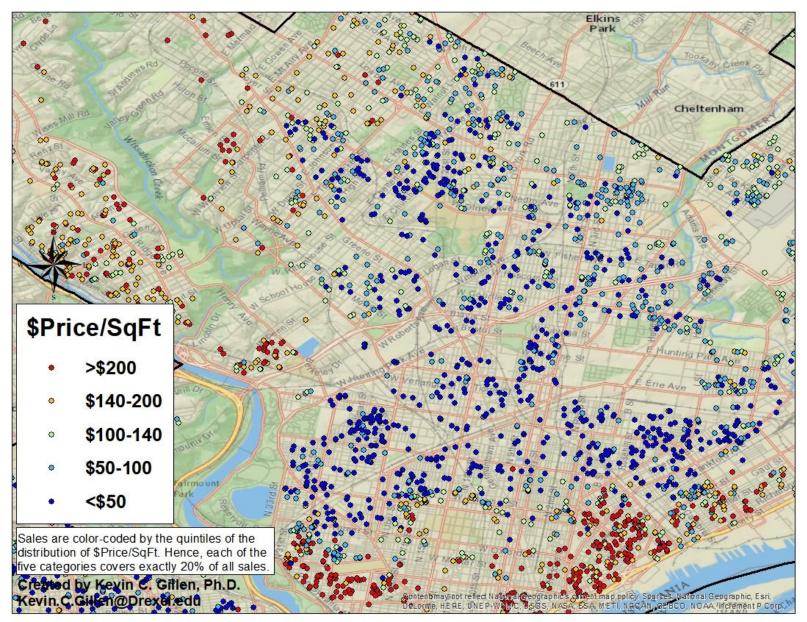


West Philadelphia House Sales in 2018 Q2

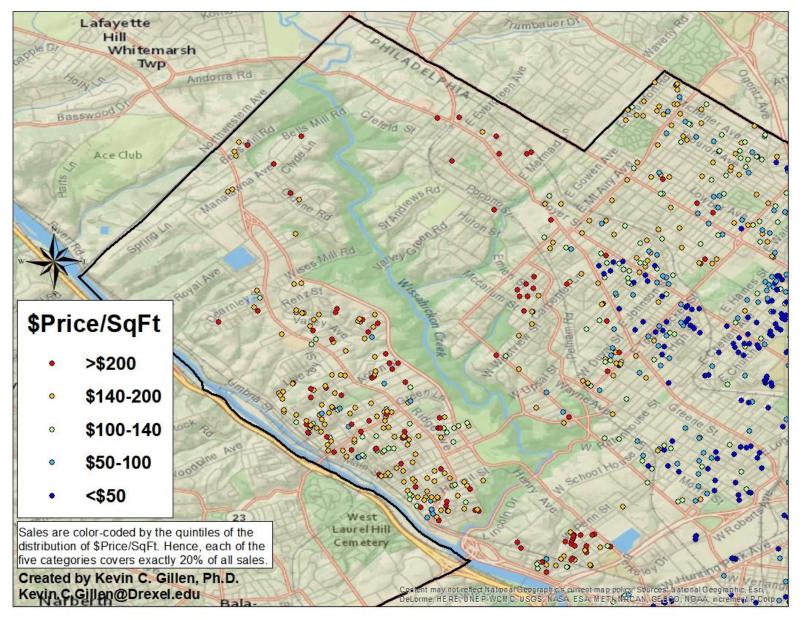




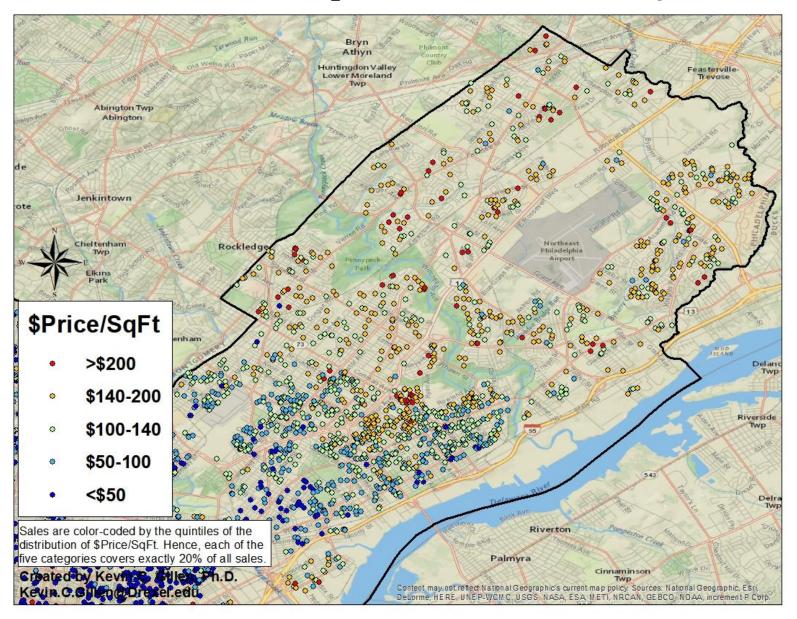
North Philadelphia House Sales in 2018 Q2



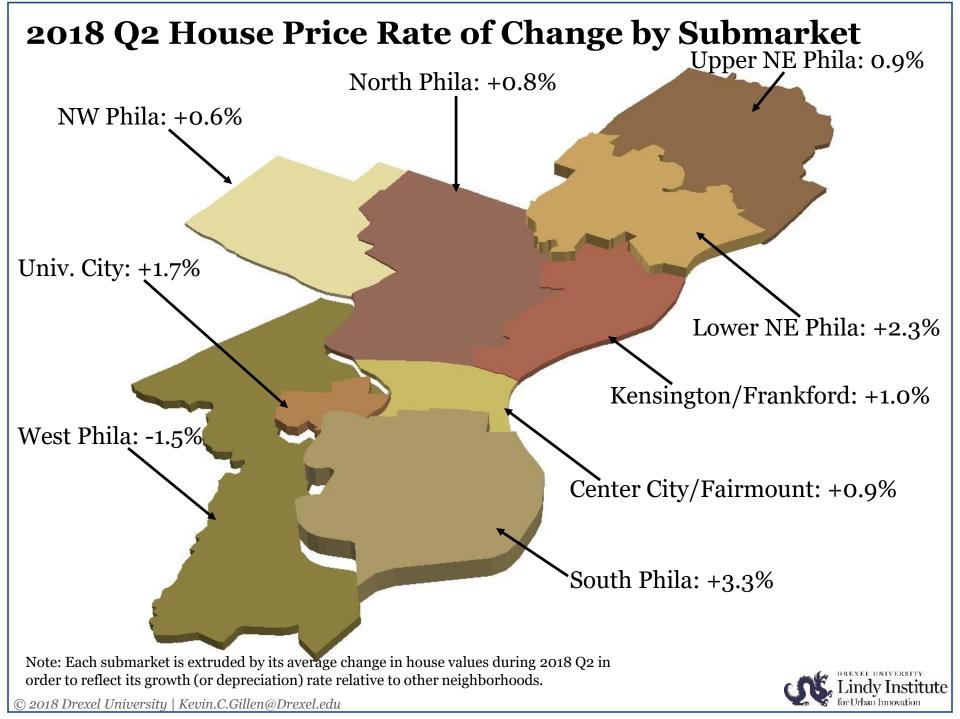
Northwest Philadelphia House Sales in 2018 Q2



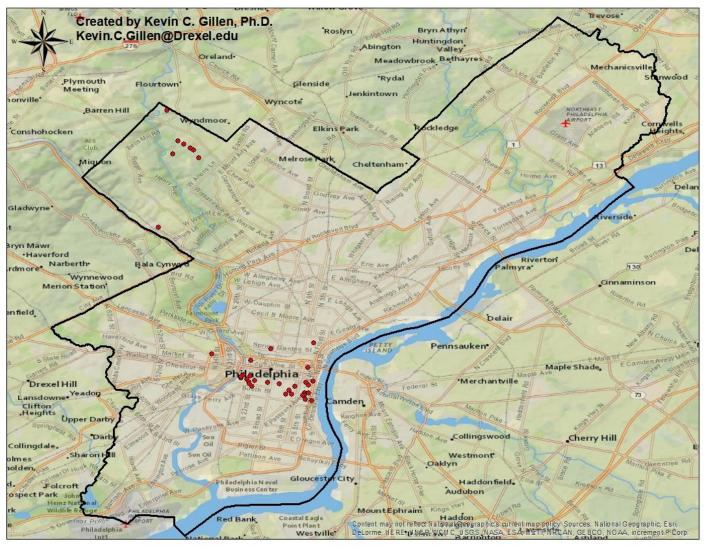
Northeast Philadelphia House Sales in 2018 Q2







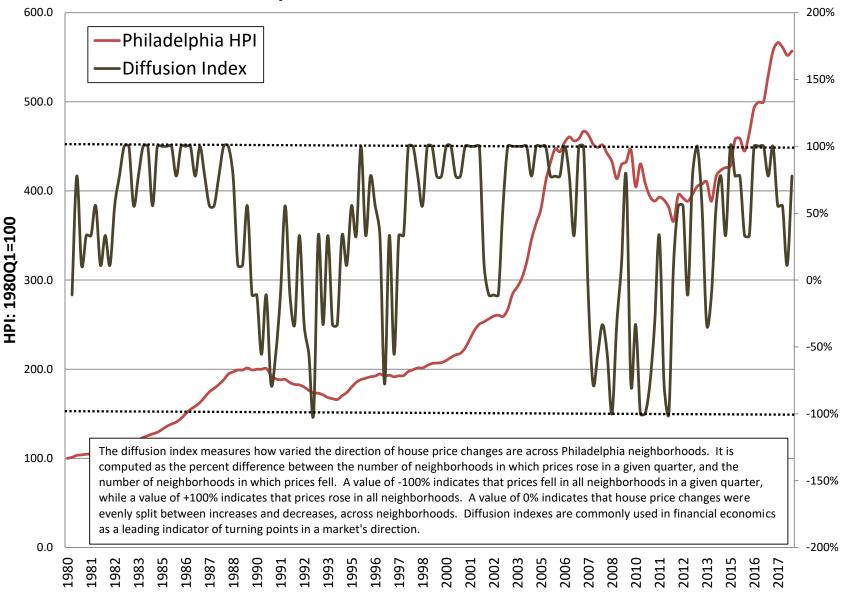
+\$1 Million Dollar House Sales in 2018 Q2



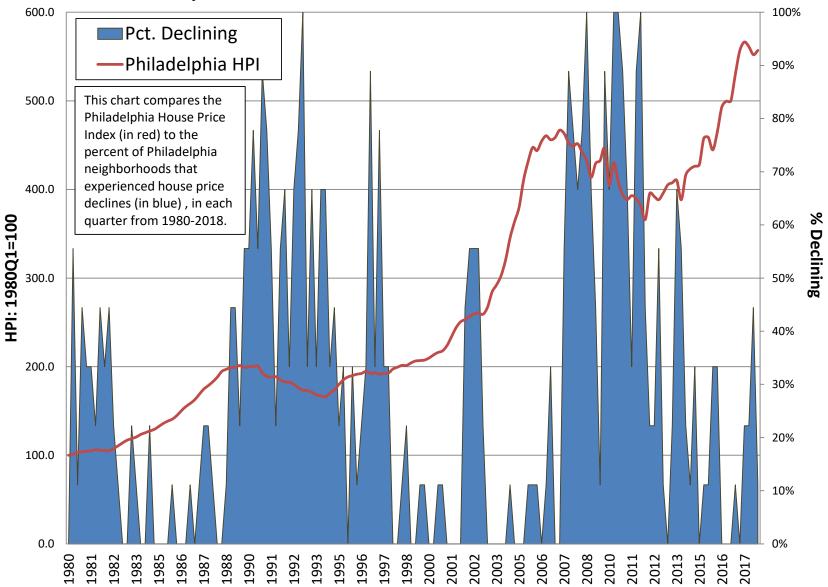
\$1,025,000	PRICE	ADDRESS
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\$2,225,000 318 RACE S \$2,500,000 138 S FRONT S	\$2,000,000	8703 SEMINOLE AVE
\$2,500,000 138 S FRONT S		156 CONARROE ST
		318 RACE ST
		138 S FRONT ST
\$2,597,000 2100 LOCUST S	\$2,597,000	2100 LOCUST ST



Philadelphia House Price Diffusion Index 1980-2018

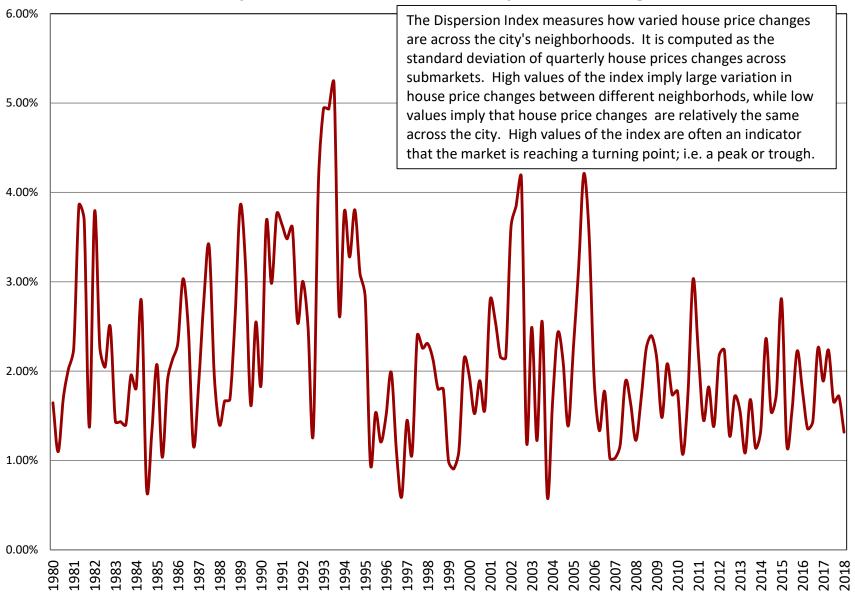


Philadelphia House Prices 1980-2018: Declines v. House Price Index

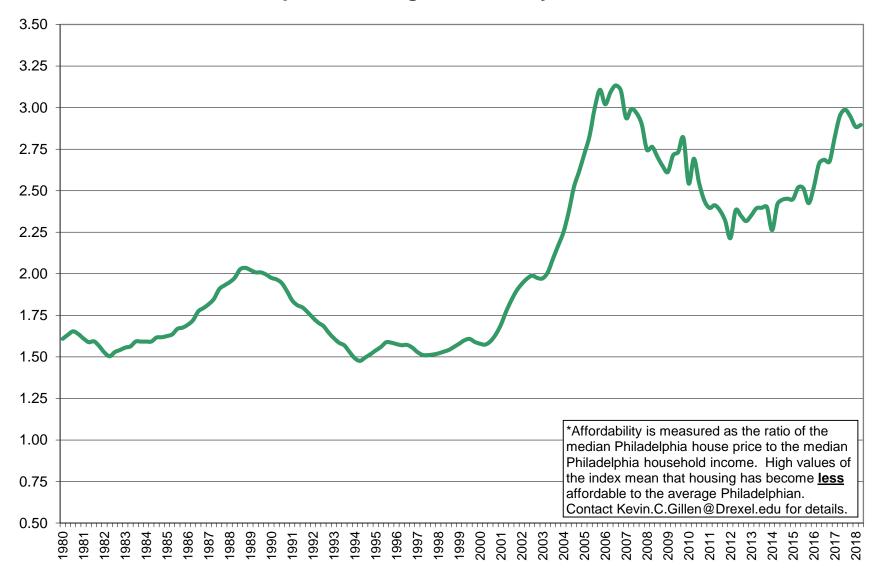




Dispersion Index of Philadelphia Housing

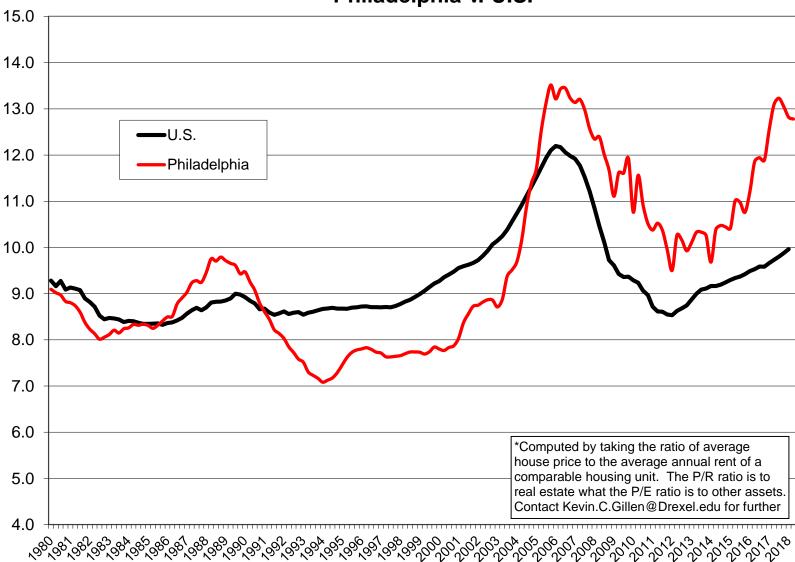


Philadelphia Housing Affordability* Index: 1980-2018



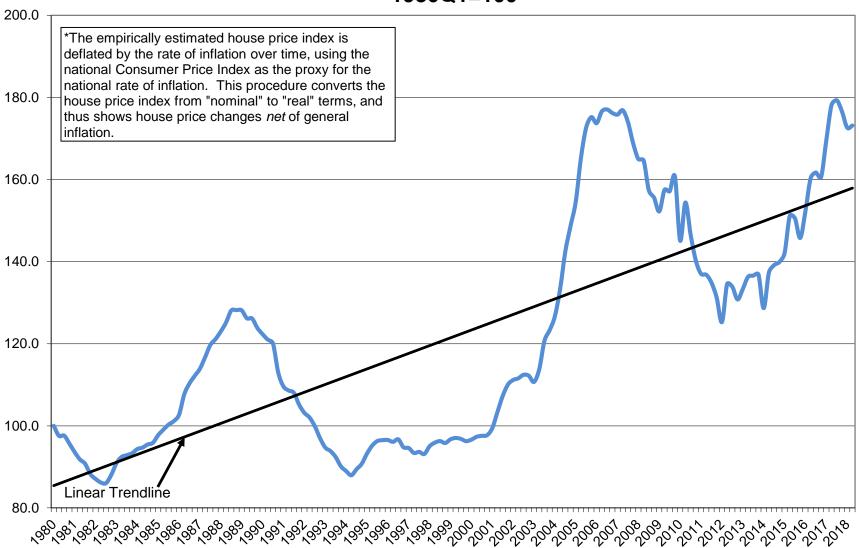


Average House Price-to-Rent Ratios*: 1980-2018 Philadelphia v. U.S.





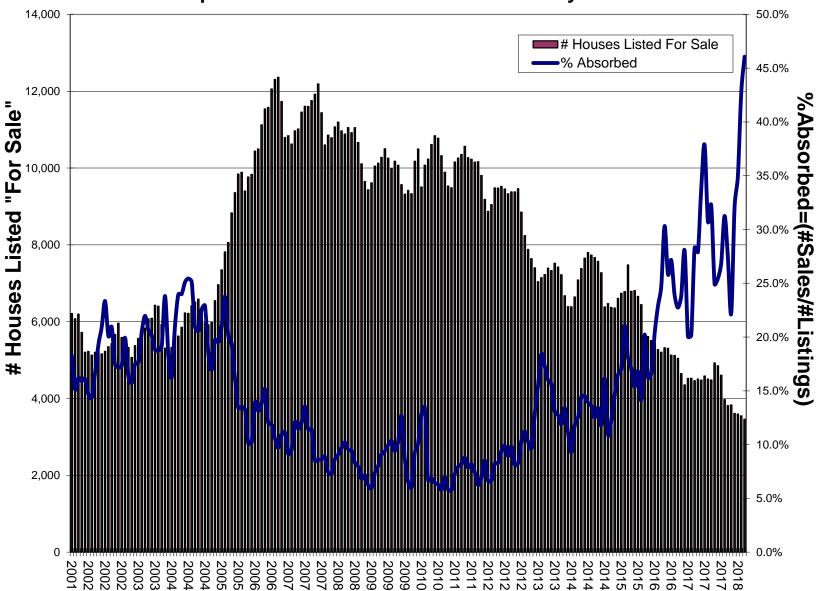
Inflation-Adjusted* Philadelphia House Price Index 1980-2018 1980Q1=100



Source: US Bureau of Labor Statistics



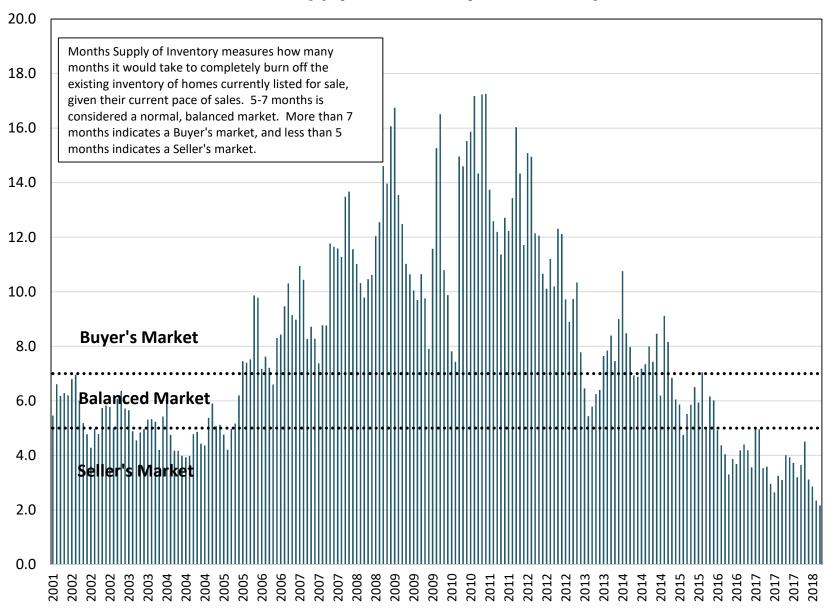
Philadelphia Houses Listed For Sale: Inventory v. Sales Rate



"%Absorbed" is defined as the percent of homes listed for sale in a given month that also sold in that same month.

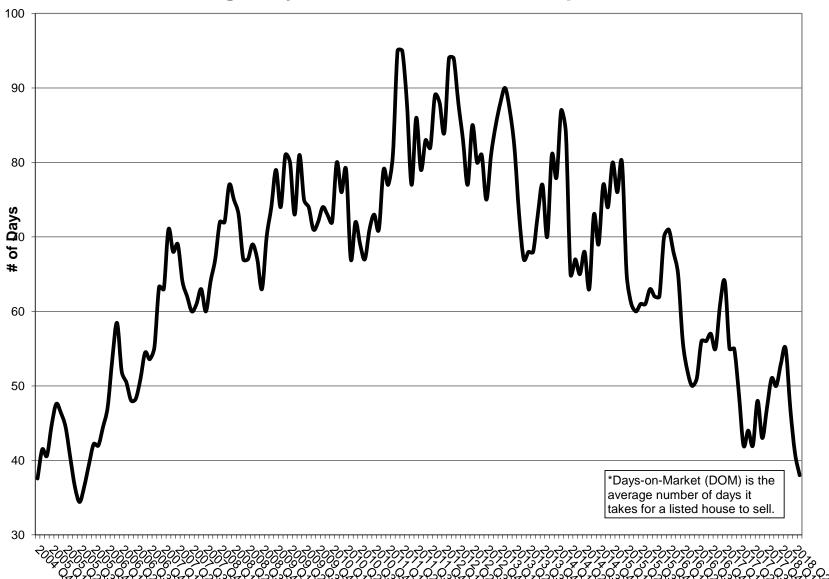


Months Supply of Inventory in Philadelphia



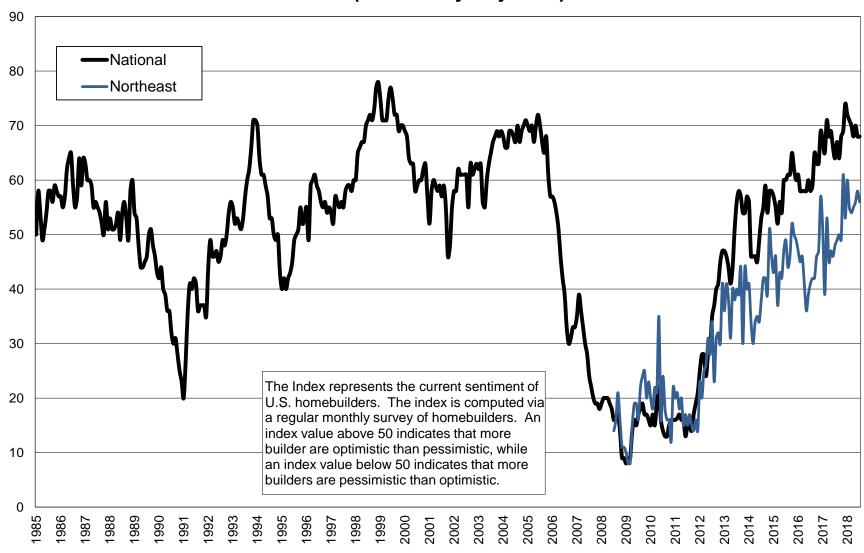


Average Days-on-Market* for Philadelphia Homes





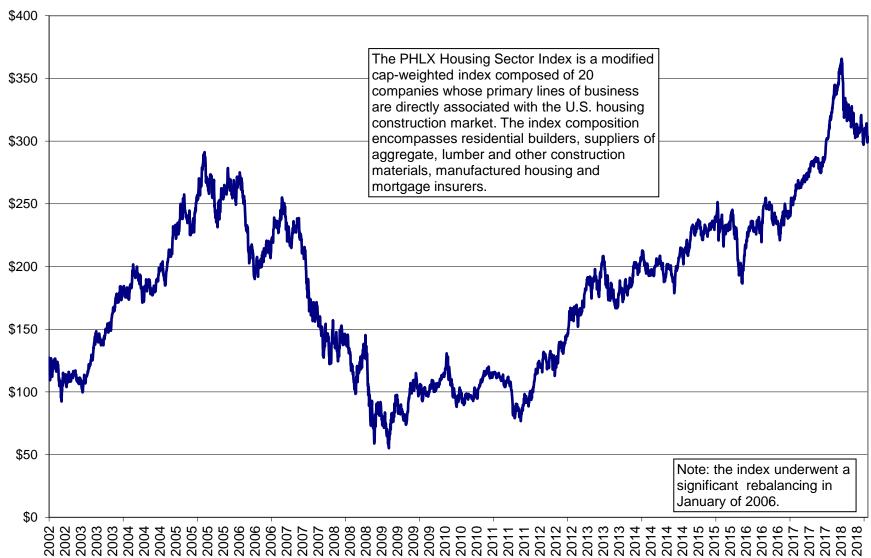
Index of Homebuilder Sentiment: 1985-2018 (Seasonally Adjusted)



Source: National Assoc. of Homebuilders (NAHB)/Wells Fargo



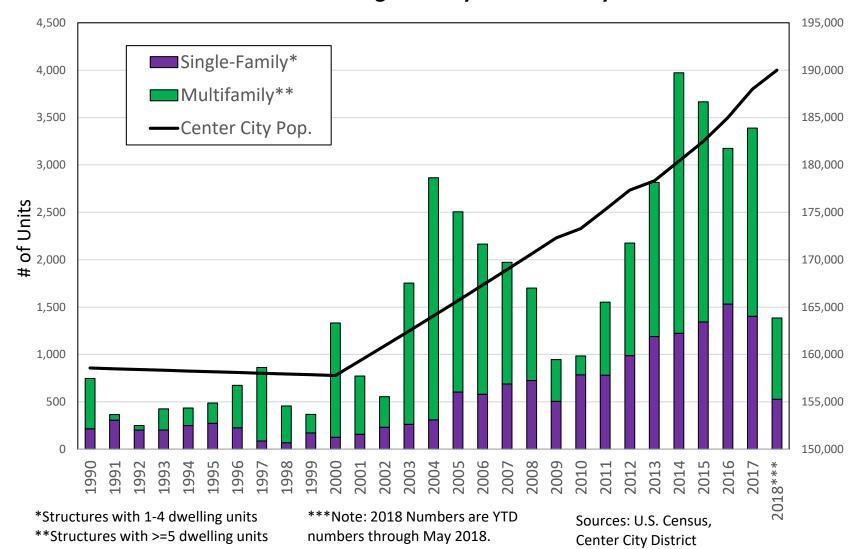
Philadelphia Stock Exchange Housing Sector Index: 2002-2018



Source: finance.yahoo.com



Building Permits Issued for Construction of Residential Units in Philadelphia: Single-Family v. Multifamily

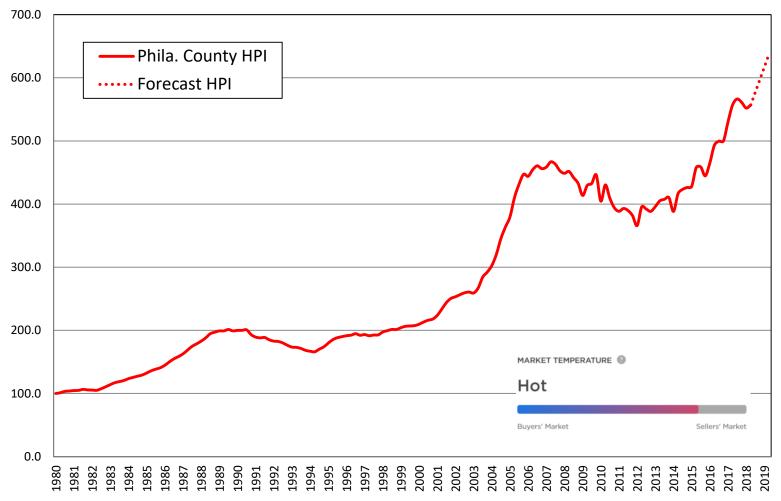




Population

Philadelphia House Price Index and 1-Year Forecast

Philadelphia House Price Index: Actual v. Forecast



Zillow.com is currently forecasting Philadelphia house prices to rise an average of 13.4% over the course of the next twelve months. This is a significant upgrade from its previous forecast of 3.7% made just three months ago. Zillow also currently rates the temperature of Philadelphia's housing market as "Hot", but its level of hotness is (confusingly) less than its level of three months' ago. Source: http://www.zillow.com/philadelphia-pa/home-values/