PHILADELPHIA HOUSE PRICE INDICES

May 2, 2017

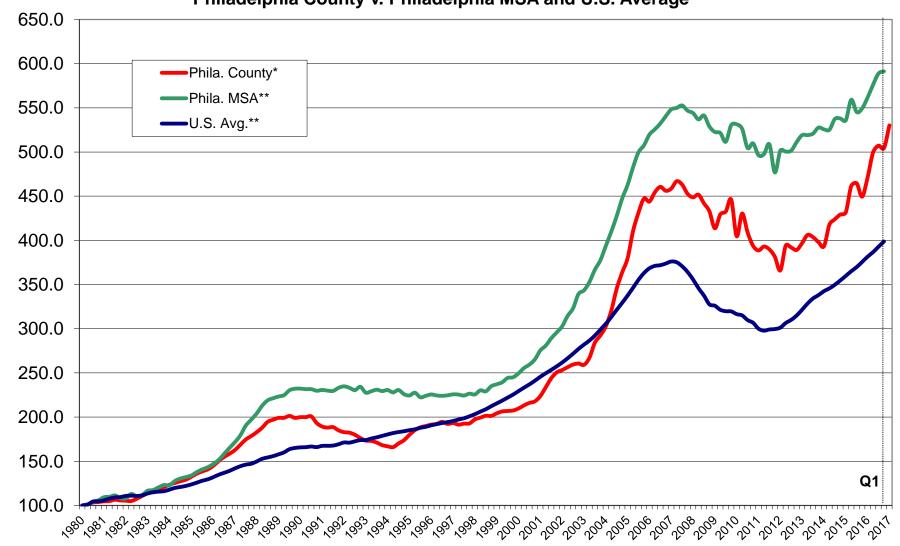


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House Price Indices 1980-2017: 1980Q1=100 Philadelphia County v. Philadelphia MSA and U.S. Average



These HPIs are current through 2016Q4 only.

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

^{**}Courtesy of the Federal Housing Finance Agency (FHFA).

[&]quot;MSA"=Metropolitan Statistical Area, which is the entire 10-county region."

Total House Price Appreciation Rates by Geographic Market

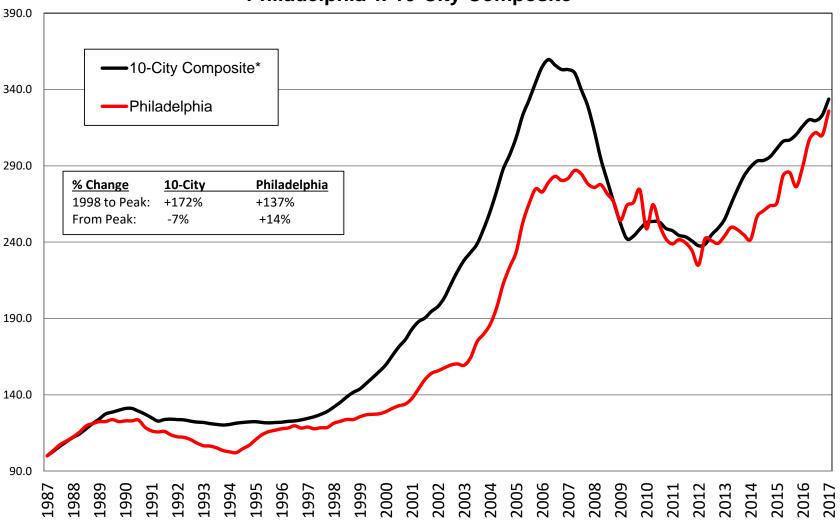
Period	Philadelphia County*	Philadelphia MSA**	U.S.A.**
38-Year	166.8%	177.7%	138.3%
10-Year	14.5%	9.0%	6.4%
1-Year	11.8%	7.4%	6.0%
1-Quarter	5.0%	0.4%	1.5%

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



^{**}Source: U.S. Federal Housing Finance Agency (FHFA). These numbers are through 2016Q4 only. "MSA"="Metropolitan Statistical Area", which is the entire 10-county region.

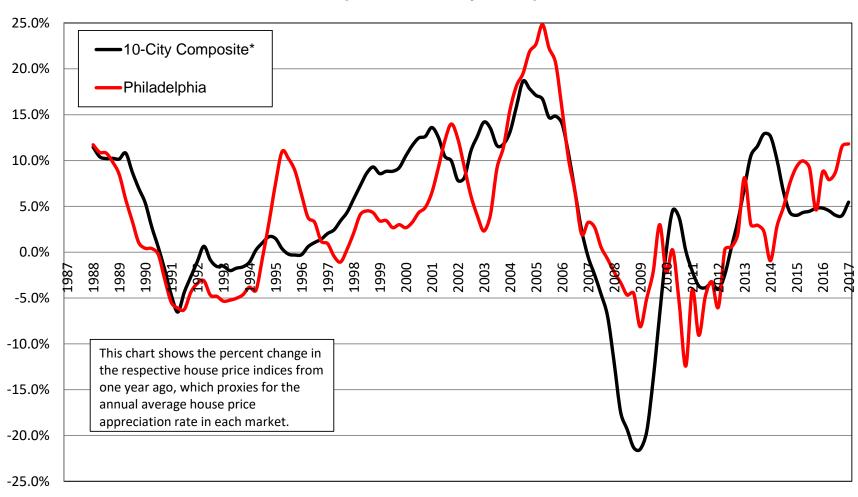
House Price Appreciation 1987-2017: Philadelphia v. 10-City Composite





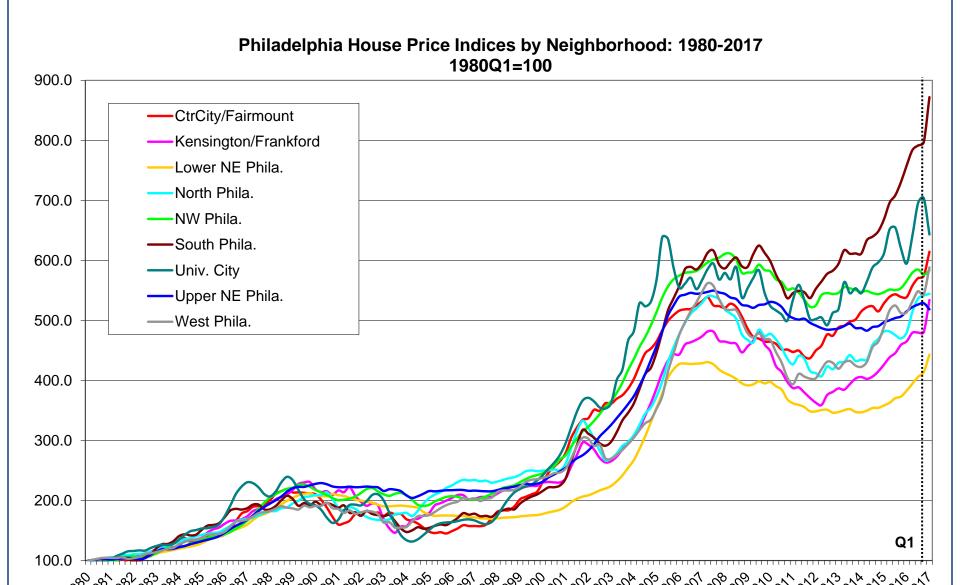
^{*}Source: S&P/Case-Shiller. The 10-City Composite index includes Boston, Chicago, Denver, Las Vegas, Los Angeles, Miami, New York, San Diego, San Francisco, and Washington, DC. It does not include Philadelphia.

YoY House Price Change (%) 1987-2017: 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.







^{*} All indices empirically estimated by Kevin C. Gillen, Ph.D.

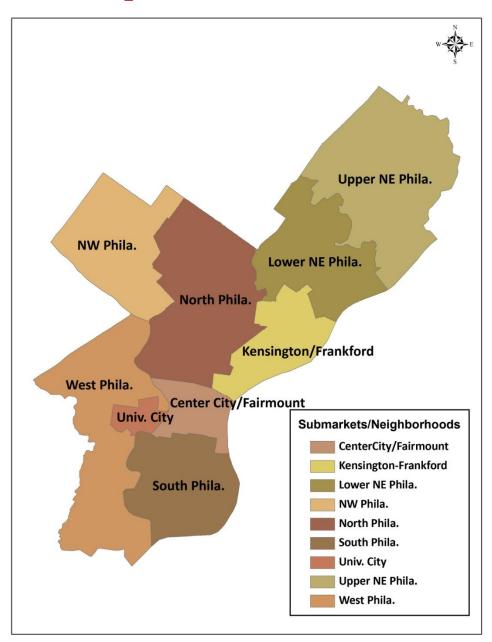
Philadelphia House Price Appreciation Rates by Neighborhood

Period	Center City/ Fairmount	Kensington /Frankford	Lower NE Phila.	North Phila.	NW Phila.	South Phila.	Univ. City	Upper NE Phila.	West Phila.
38-year	181.6%	167.5%	148.8%	169.4%	176.4%	216.6%	186.1%	164.6%	177.2%
10-year	14.4%	12.0%	3.3%	2.7%	-1.0%	38.2%	12.6%	-5.1%	7.2%
1-Year	13.1%	13.8%	14.6%	12.6%	3.0%	14.0%	7.8%	0.6%	13.6%
1-Quarter	6.7%	10.5%	6.7%	0.5%	1.2%	9.0%	-9.0%	-1.9%	7.9%

This table gives the total % change in average house values by neighborhood, through 2017 Q1, from different starting points in time.

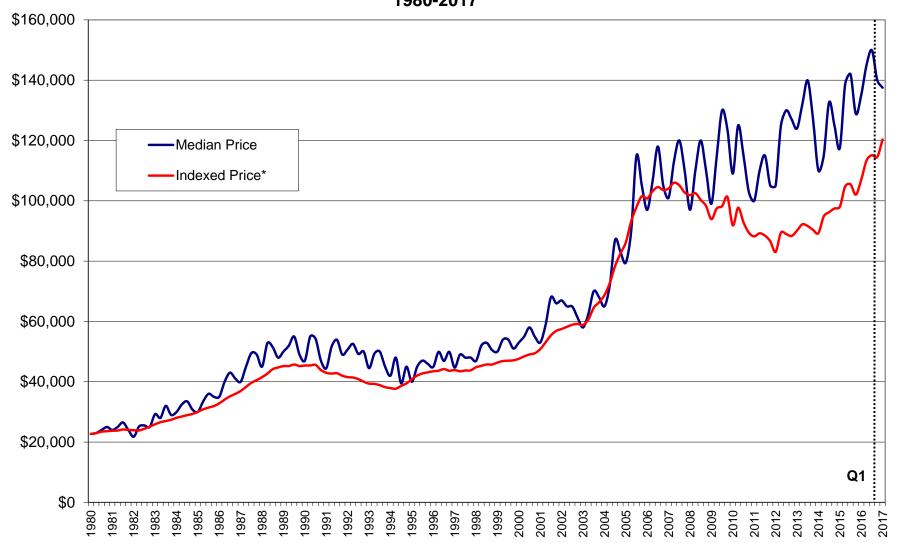


Philadelphia Submarket Boundaries





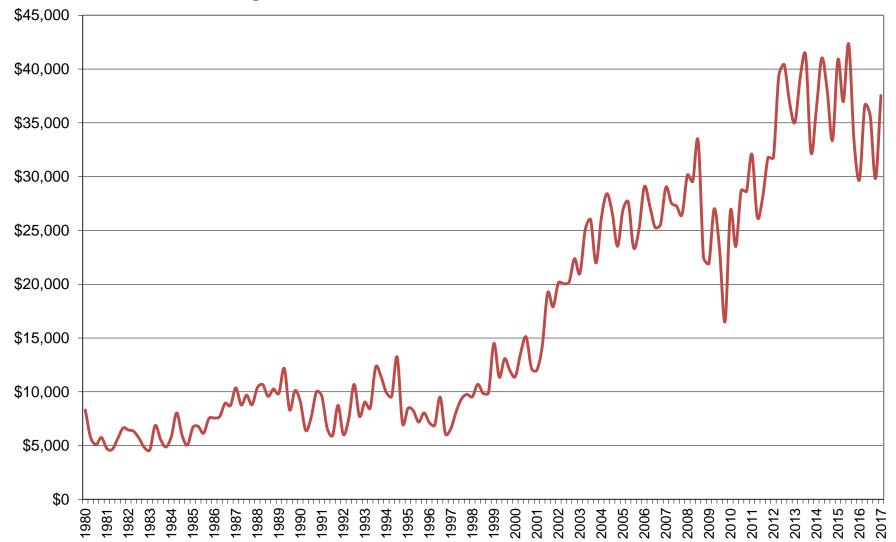
Median Philadelphia House Price v. Indexed Philadelphia House Price 1980-2017





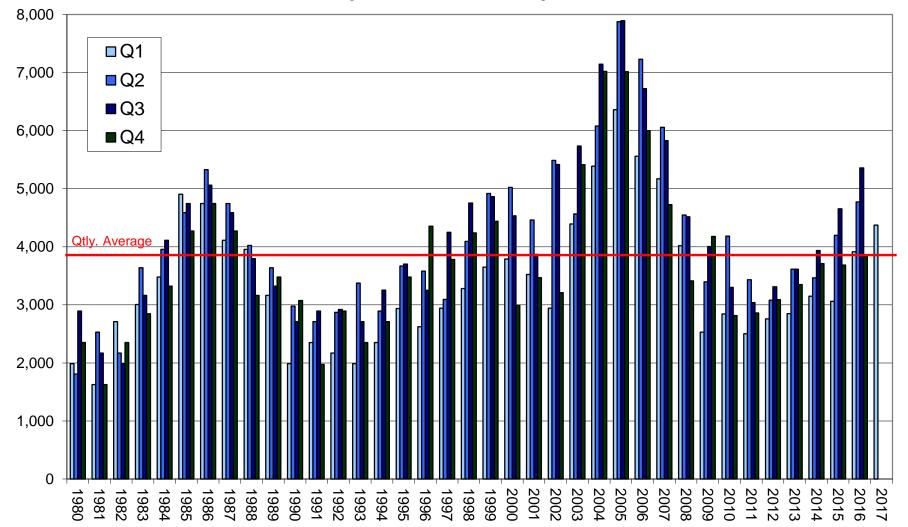
^{*} Empirically estimated by Kevin C. Gillen, PhD © 2017 Drexel University | Kevin.C.Gillen@Drexel.edu

Average House Price Minus Median House Price: 1980-2017



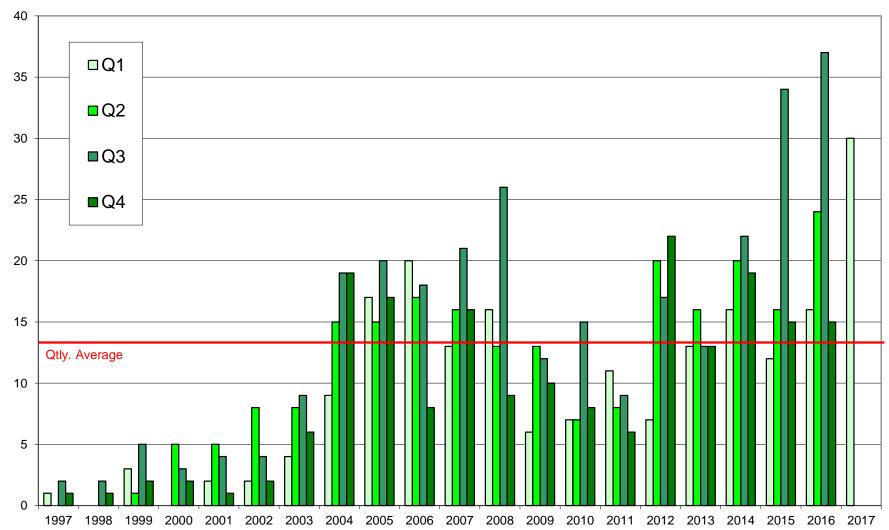


Number of Philadelphia House Sales* per Quarter: 1980-2017





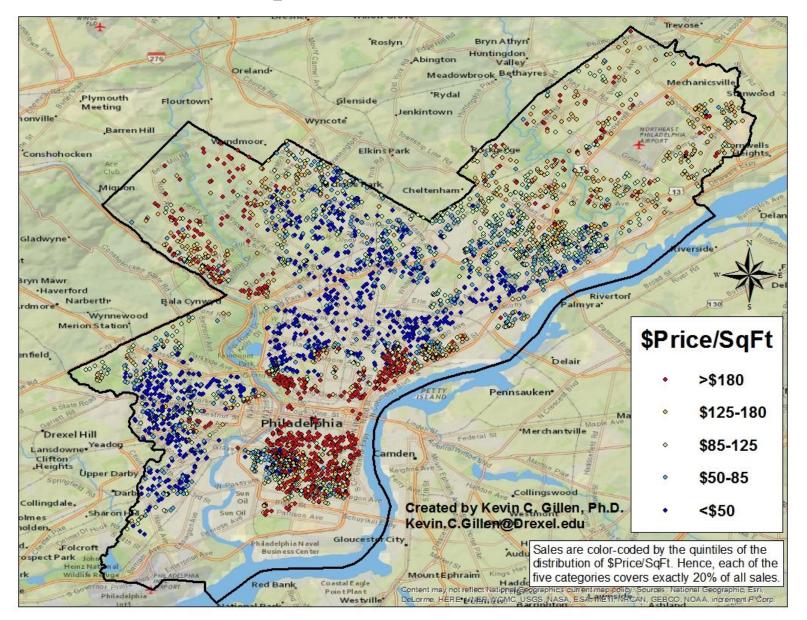
Number of Philadelphia Home Sales* per Quarter with Price>=\$1 Million: 1997-2017



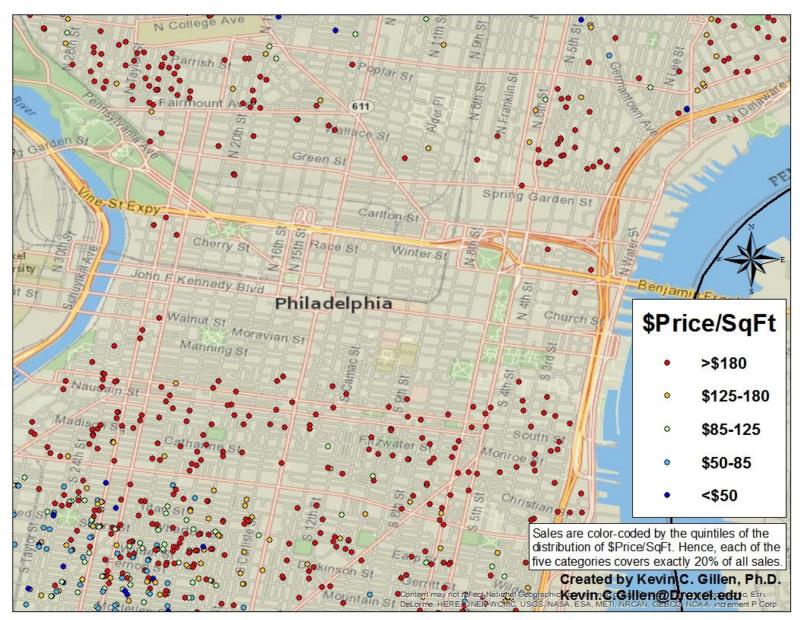


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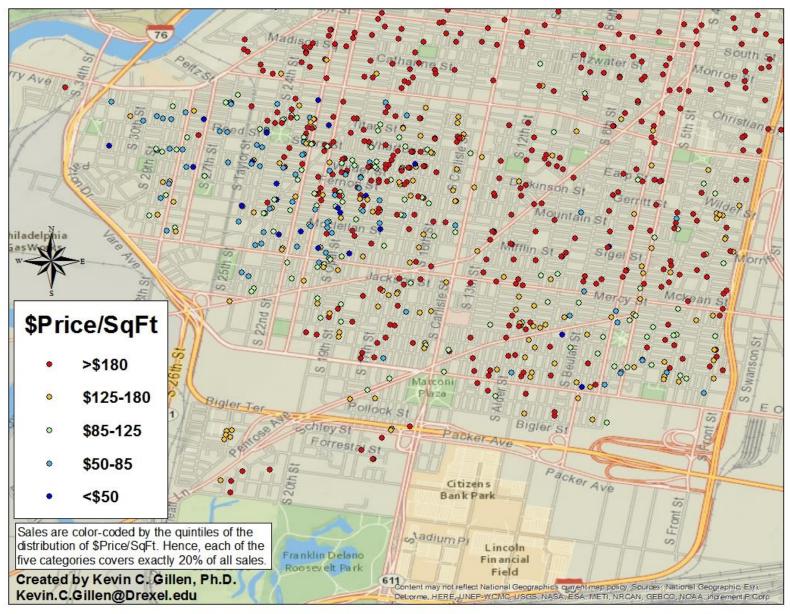
Philadelphia House Sales in 2017 Q1



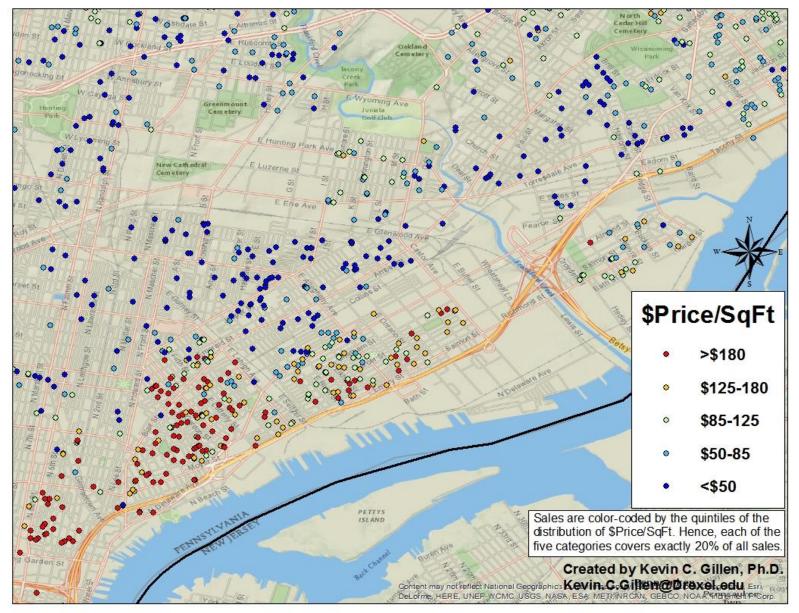
Center City House Sales in 2017 Q1



South Philadelphia House Sales in 2017 Q1

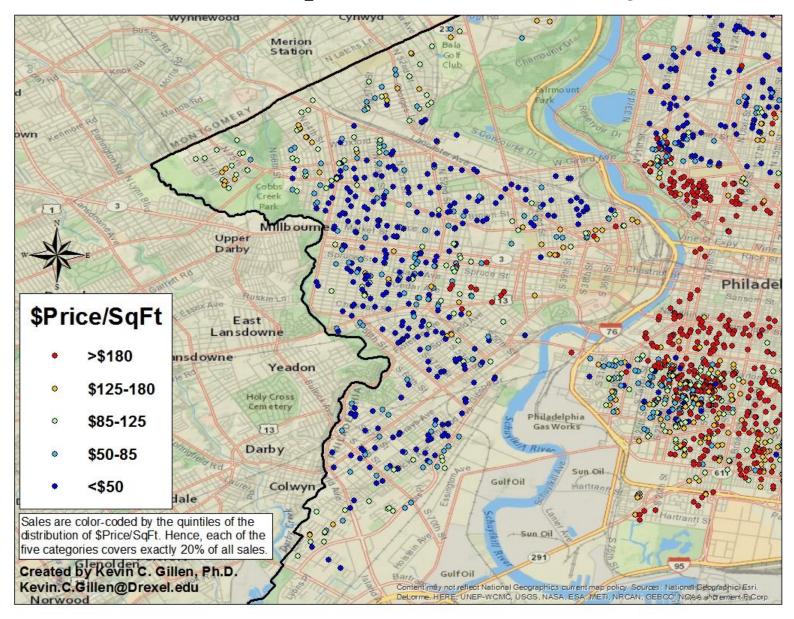


Kensington/Frankford House Sales in 2017 Q1



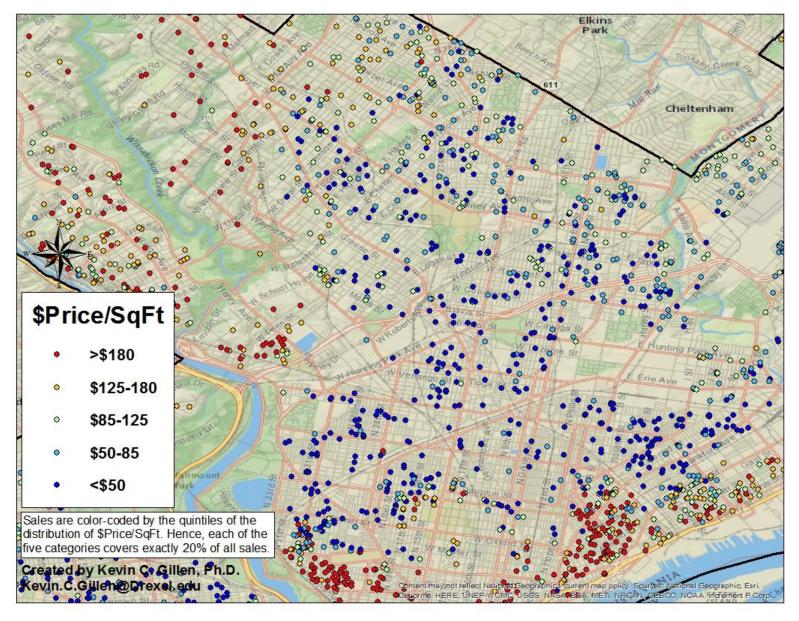


West Philadelphia House Sales in 2017 Q1



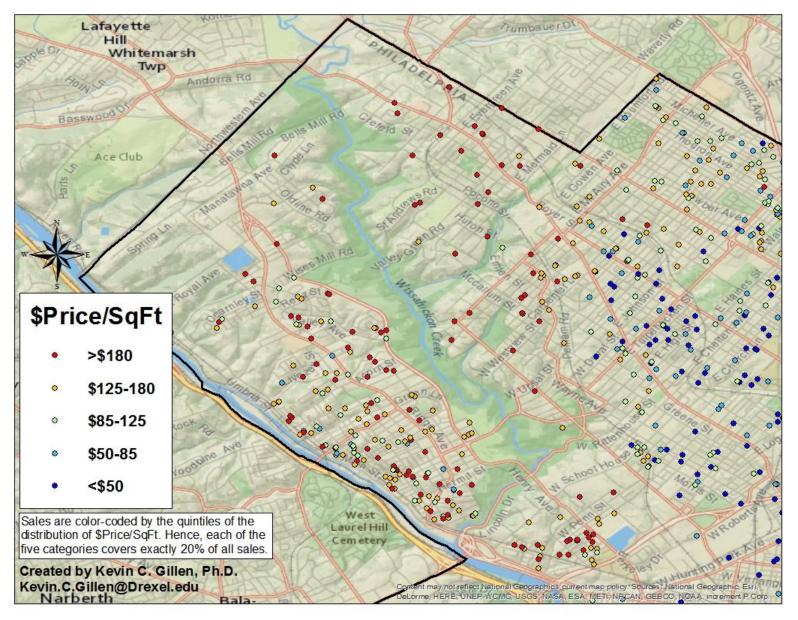


North Philadelphia House Sales in 2017 Q1

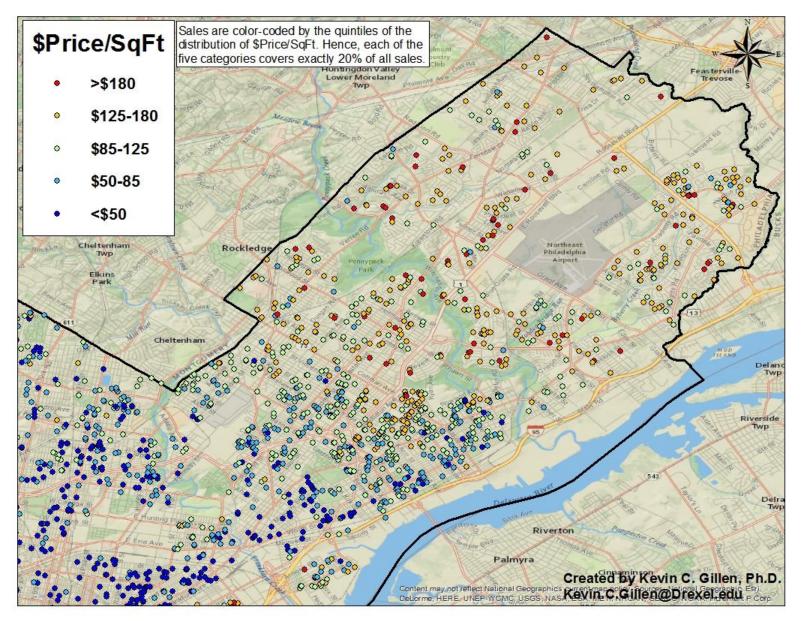




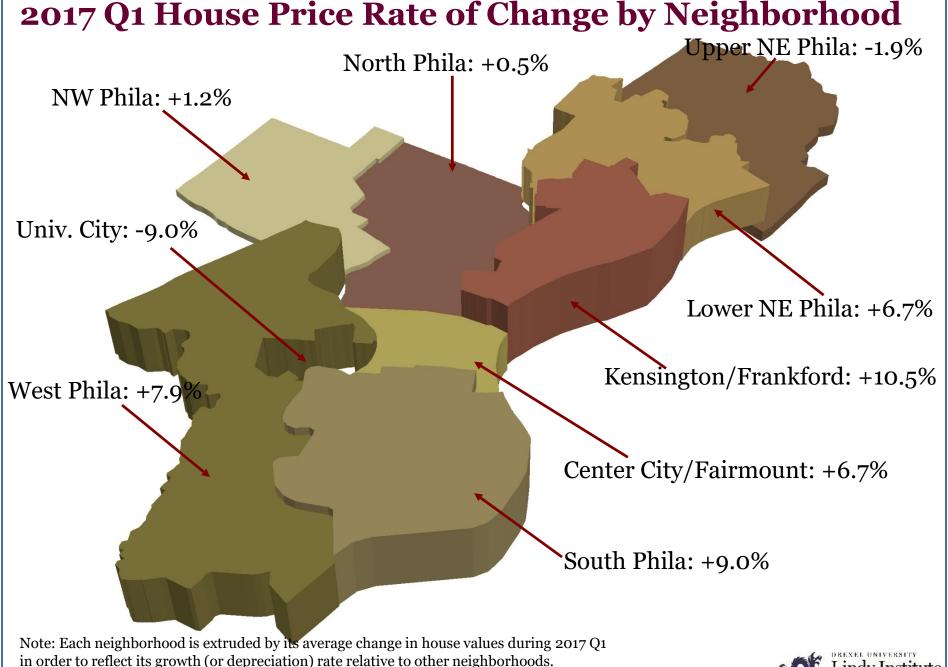
Northwest Philadelphia House Sales in 2017 Q1



Northeast Philadelphia House Sales in 2017 Q1

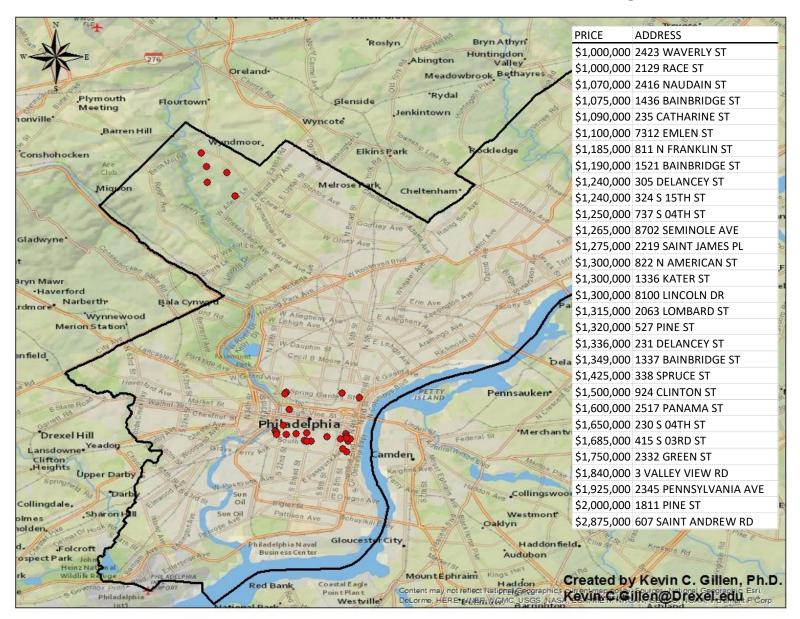




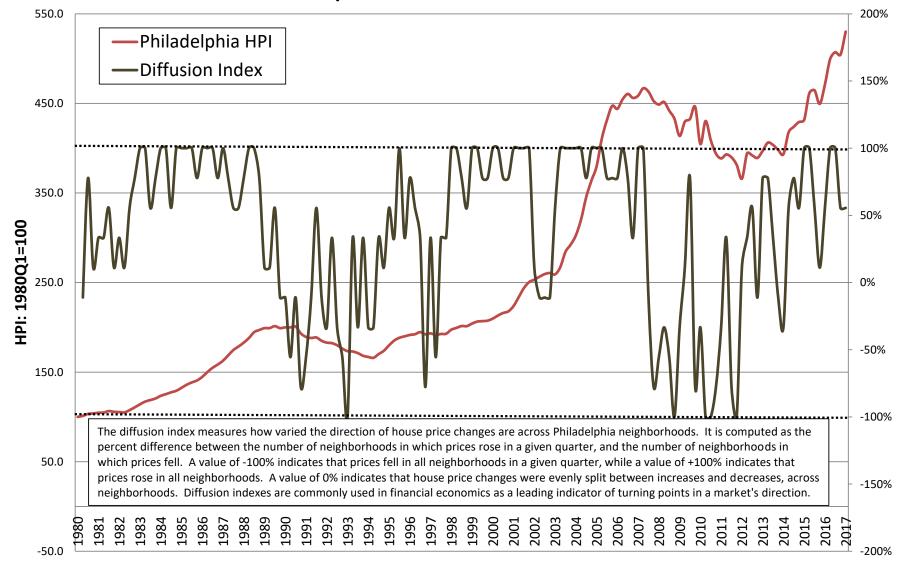




+\$1 Million Dollar House Sales in 2017 Q1

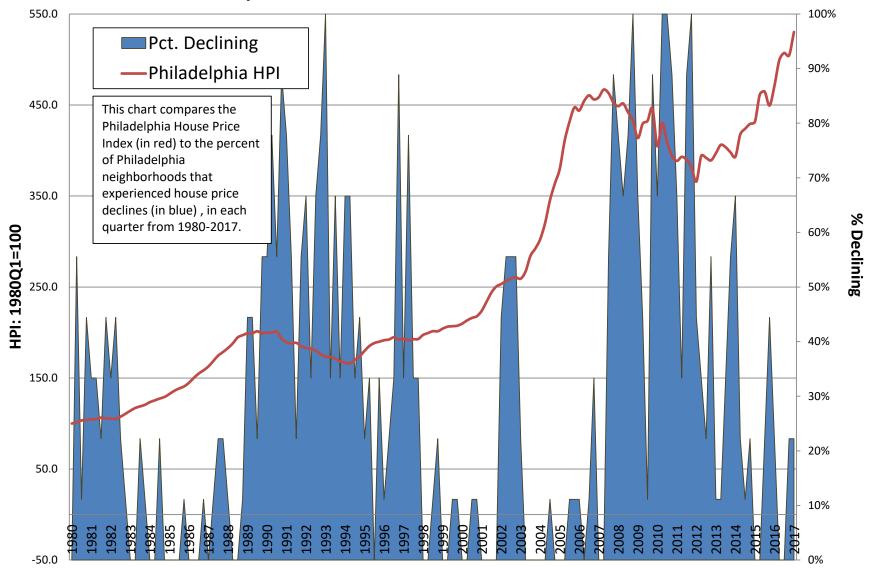


Philadelphia House Price Diffusion Index



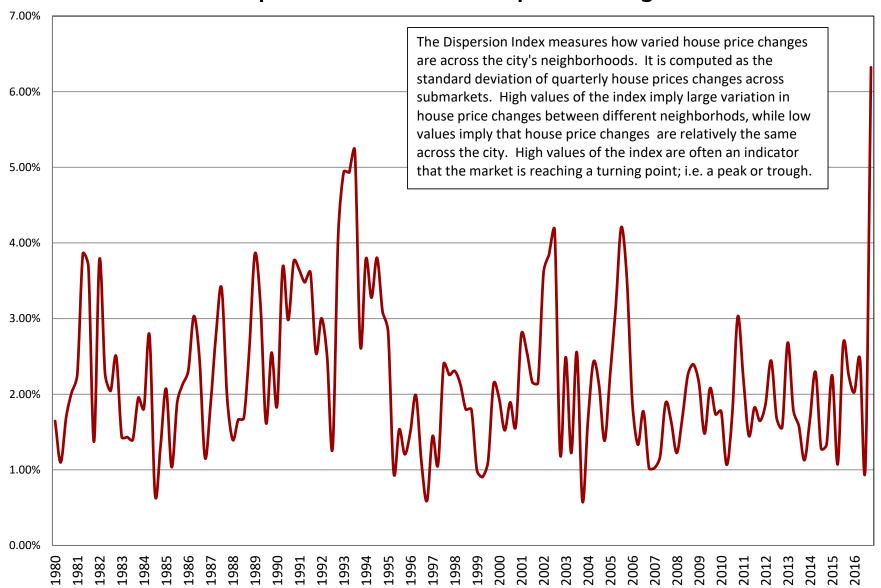


Philadelphia House Prices: Declines v. House Price Index



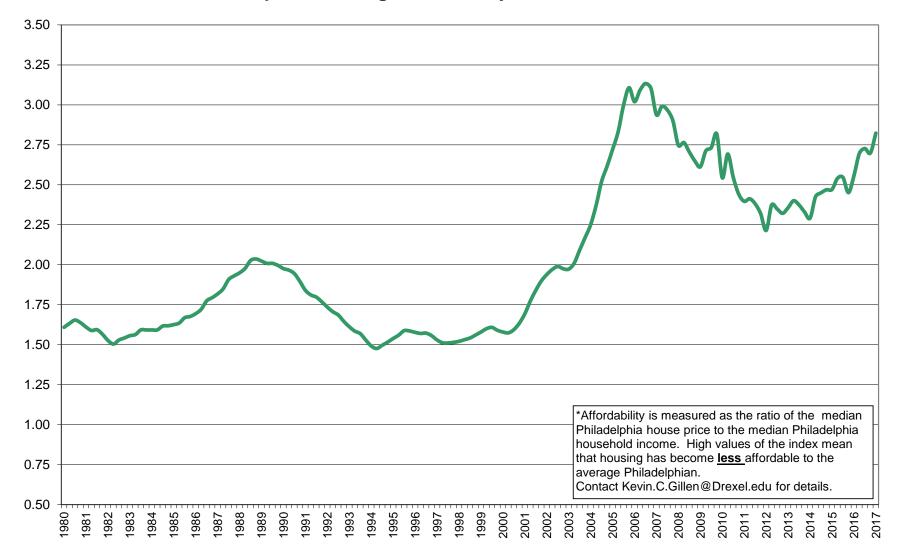


Dispersion Index of Philadelphia Housing

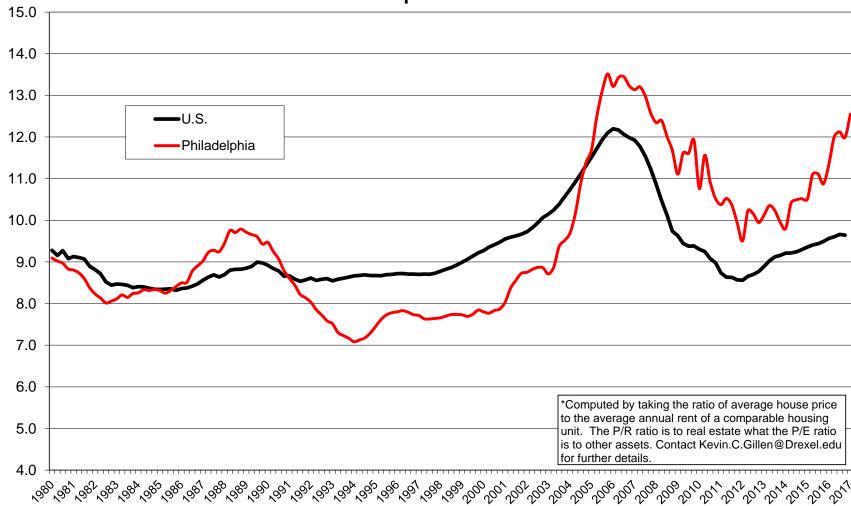




Philadelphia Housing Affordability* Index: 1980-2017

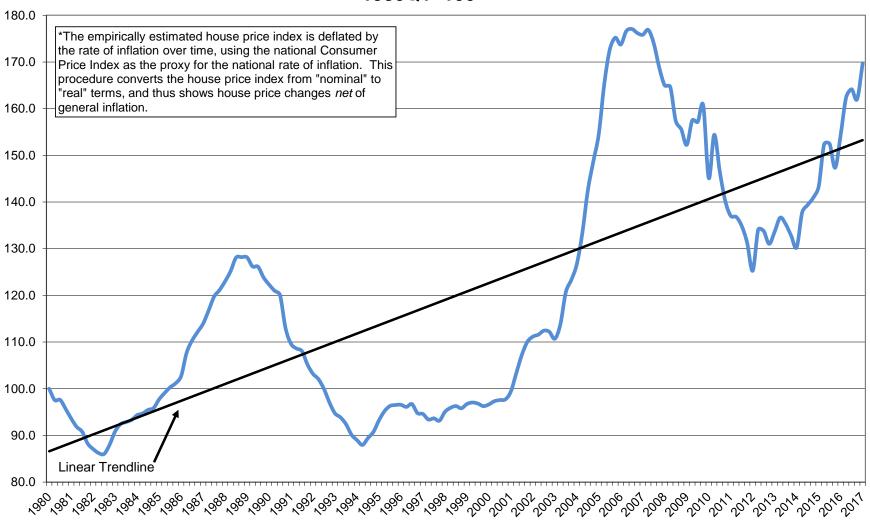


Average House Price-to-Rent Ratios*: 1980-2017 Philadelphia v. U.S.





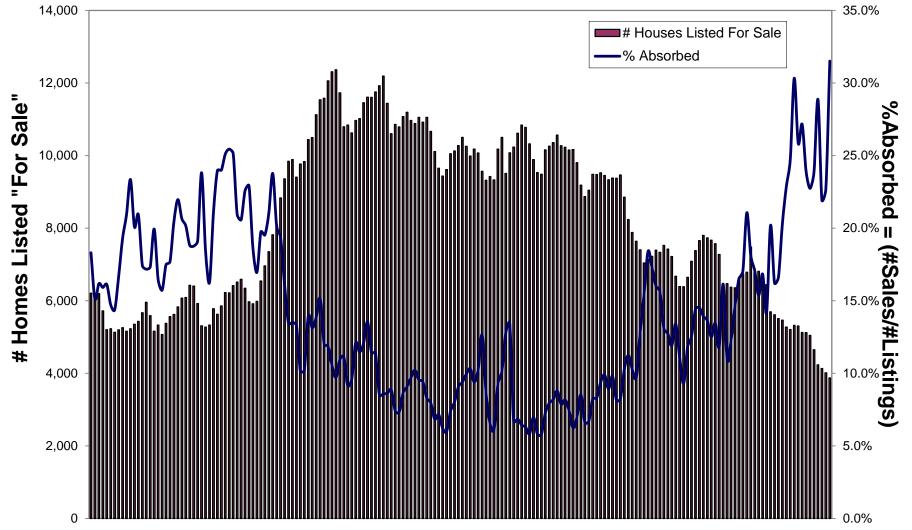
Inflation-Adjusted* Philadelphia House Price Index 1980-2017 1980Q1=100

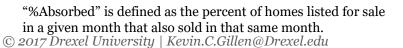


Source: US Bureau of Labor Statistics



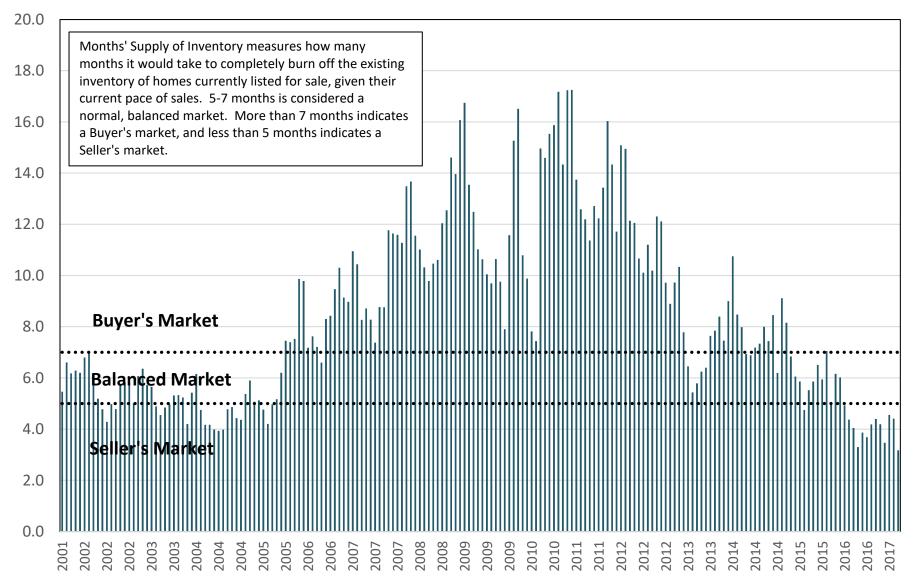
Philadelphia Houses Listed For Sale: Inventory v. Absorption Rate





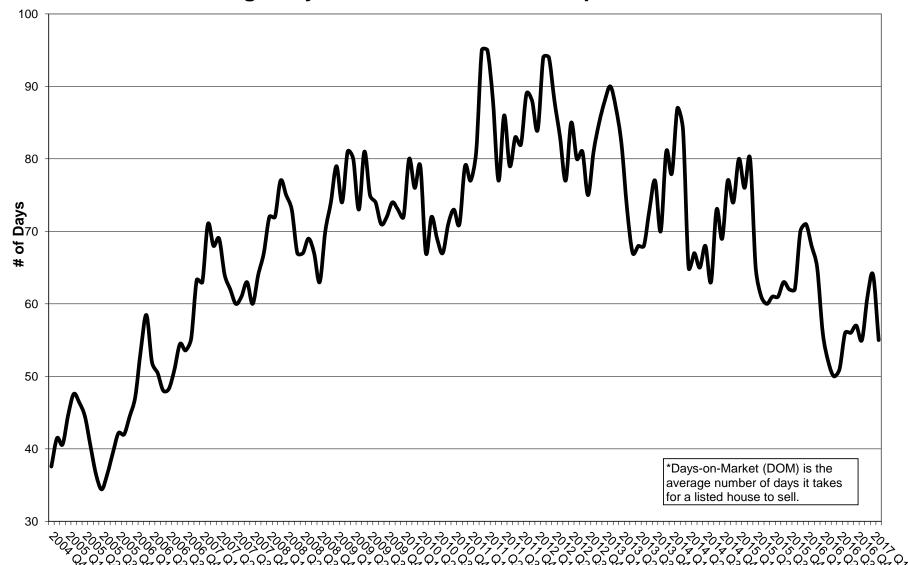


Months' Supply of Inventory in Philadelphia



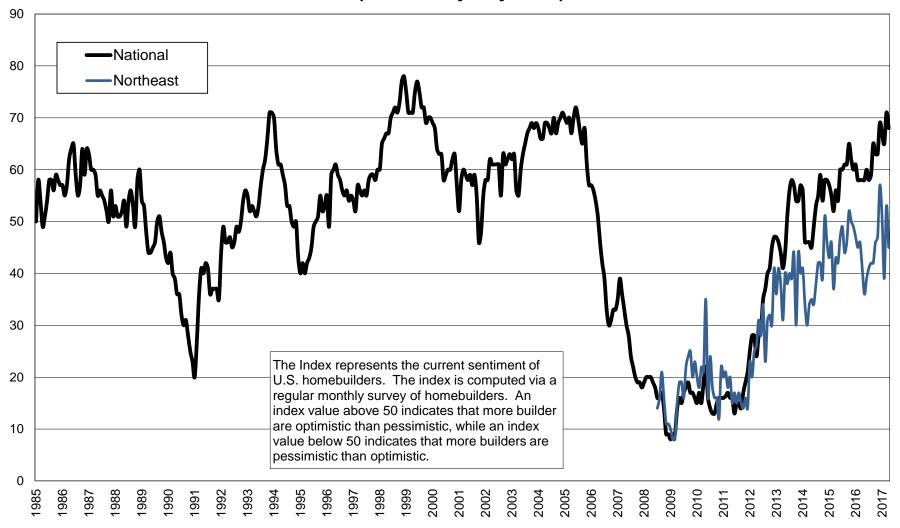


Average Days-on-Market* for Philadelphia Homes



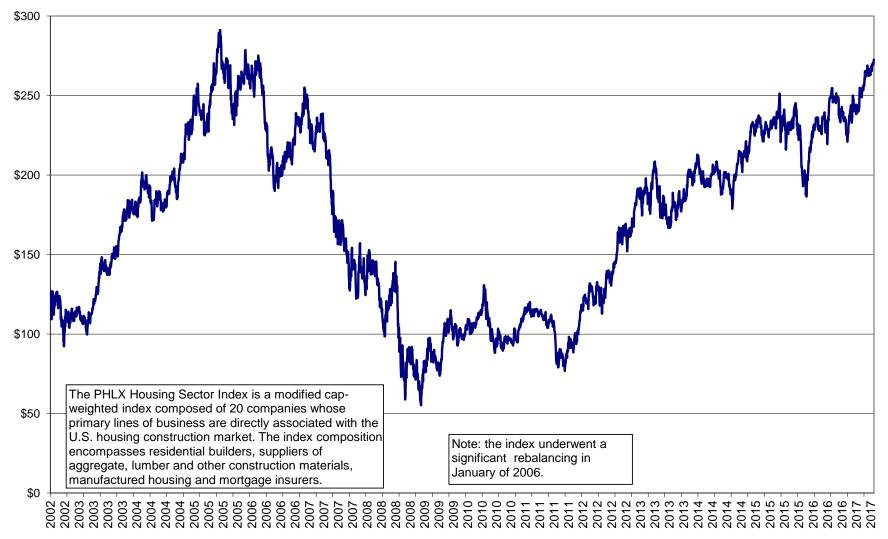


Index of Homebuilder Sentiment: 1985-2017 (Seasonally Adjusted)



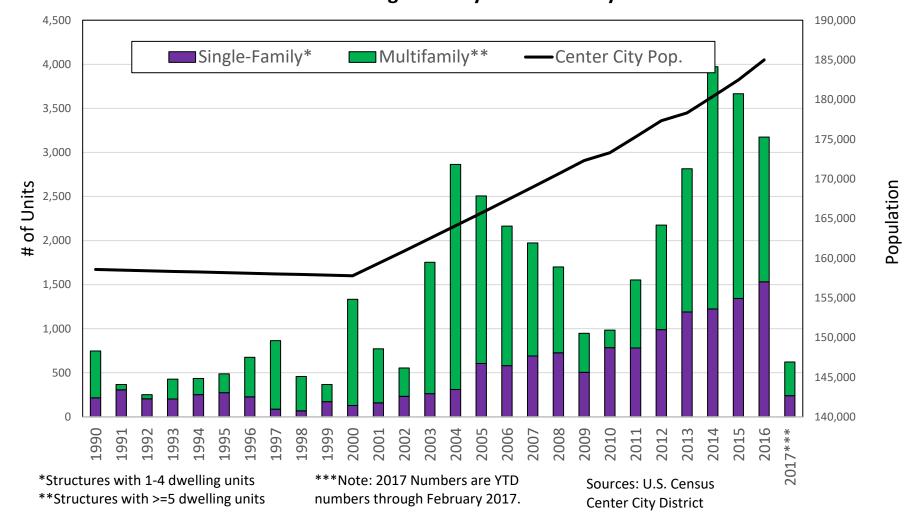


Philadelphia Stock Exchange Housing Sector Index: 2002-2017





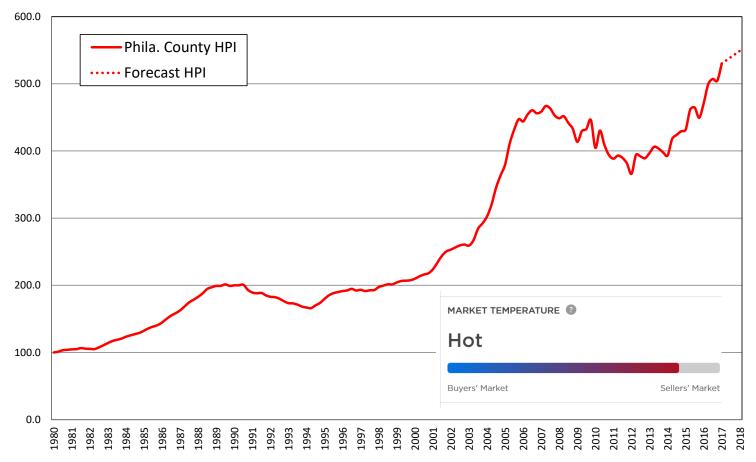
Building Permits Issued for Construction of Residential Units in Philadelphia: Single-Family v. Multifamily





Philadelphia House Price Index and 1-Year Forecast





Zillow.com is currently forecasting Philadelphia house prices to rise an average of 3.5% over the next year, which is a downgrade from its previous forecast of 4.0% made three months ago. However, it has also recently upgraded its rating of Philadelphia's market temperature from "Warm" to "Hot".

Source: http://www.zillow.com/philadelphia-pa/home-values/
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