PHILADELPHIA HOUSE PRICE INDICES

October 28, 2016



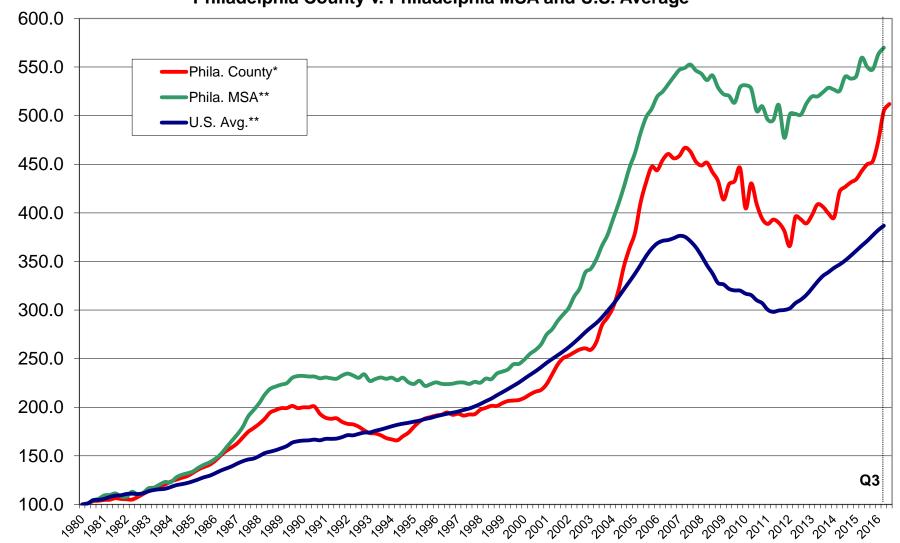
KEVIN C. GILLEN, Ph.D.

Kevin.C.Gillen@Drexel.edu

Disclaimers and Acknowledgments: The Lindy Institute for Urban Innovation at Drexel University provides this report free of charge to the public. The report is produced by Kevin C. Gillen Ph.D.. The author thanks Azavea.com, the Philadelphia Office of Property Assessment, the Federal Housing Finance Agency, Case-Shiller MacroMarkets LLC, RealtyTrac, Zillow.com, Trulia.com and the NAHB for making their data publicly available. © 2016, Drexel University, All Rights Reserved.



House Price Indices 1980-2016: 1980Q1=100 Philadelphia County v. Philadelphia MSA and U.S. Average



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

HPIs are available through 2016Q2 only.

"MSA"=Metropolitan Statistical Area, which is the entire 9-county region.



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

Total House Price Appreciation Rates by Geographic Market

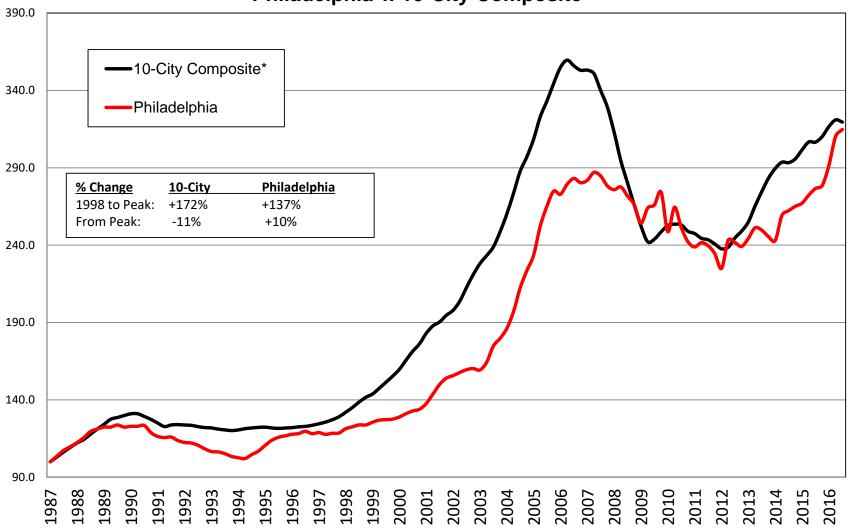
Period	Philadelphia County*	Philadelphia MSA**	U.S.A.**
37-Year	163.3%	174.0%	135.3%
10-Year	10.6%	8.3%	4.1%
1-Year	12.9%	1.8%	5.5 %
1-Quarter	1.4%	1.2%	1.2%

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



^{**}Source: U.S. Federal Housing Finance Agency (FHFA). These numbers are through 2016Q2 only. "MSA"="Metropolitan Statistical Area", which is the entire 10-county region.

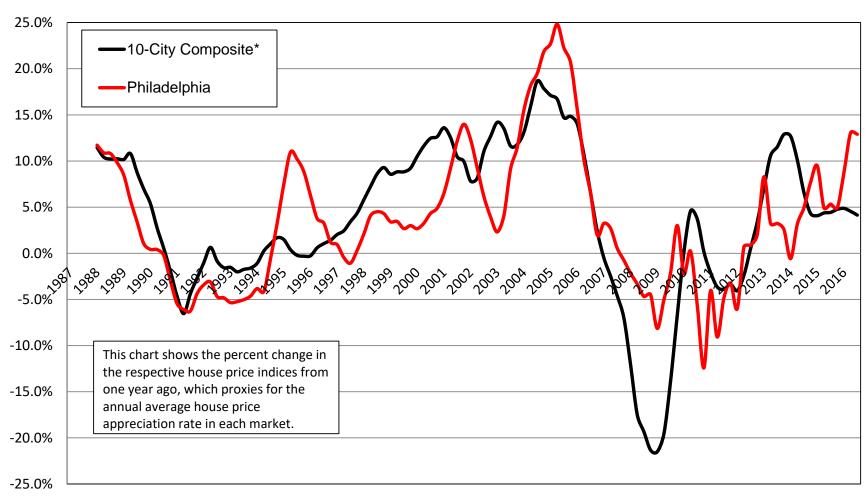
House Price Appreciation 1987-2016: Philadelphia v. 10-City Composite





^{*}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.

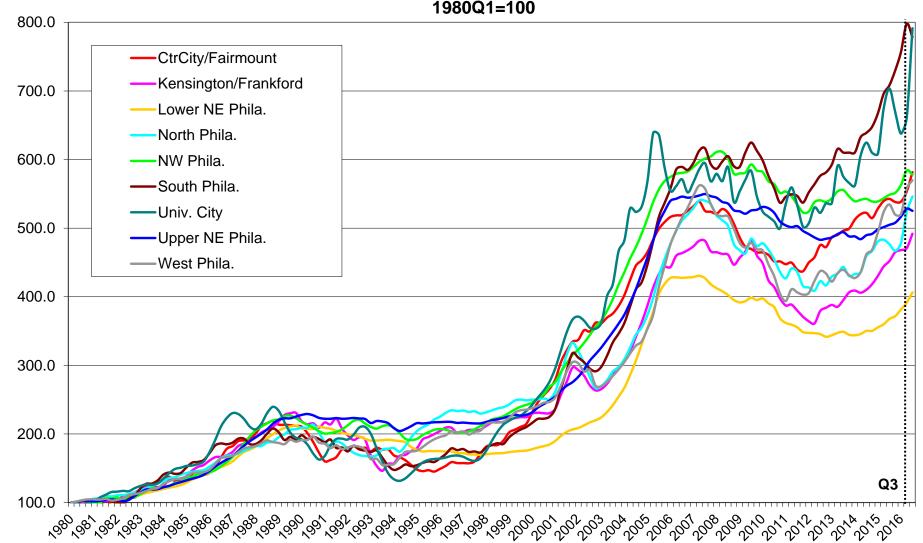
YoY House Price Change (%) 1987-2016: Philadelphia v. 10-City Composite



*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: 1980-2016 1980Q1=100



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





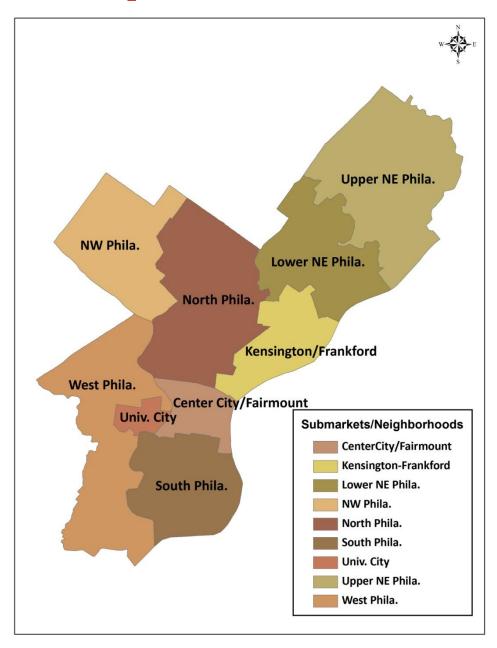
Philadelphia House Price Appreciation Rates by Neighborhood

Period	Center City/ Fairmount	Kensington /Frankford	Lower NE Phila.	North Phila.	NW Phila.	South Phila.	Univ. City	Upper NE Phila.	West Phila.
37-year	176.1%	159.3%	140.2%	169.8%	175.4%	205.2%	206.9%	165.9%	174.0%
10-year	11.4%	5.9%	-5.1%	6.6%	-0.4%	27.9%	32.6%	-3.9%	10.1%
1-Year	7.0%	8.4%	10.0%	13.6%	5.2%	9.5%	11.8%	4.0%	6.4%
1-Quarter	5.0%	4.4%	3. 7%	4.3%	-1.0%	-2.4%	18.0%	-0.6%	2.1%

This table gives the total % change in average house prices by neighborhood, through 2016 Q3, from different starting points in time.

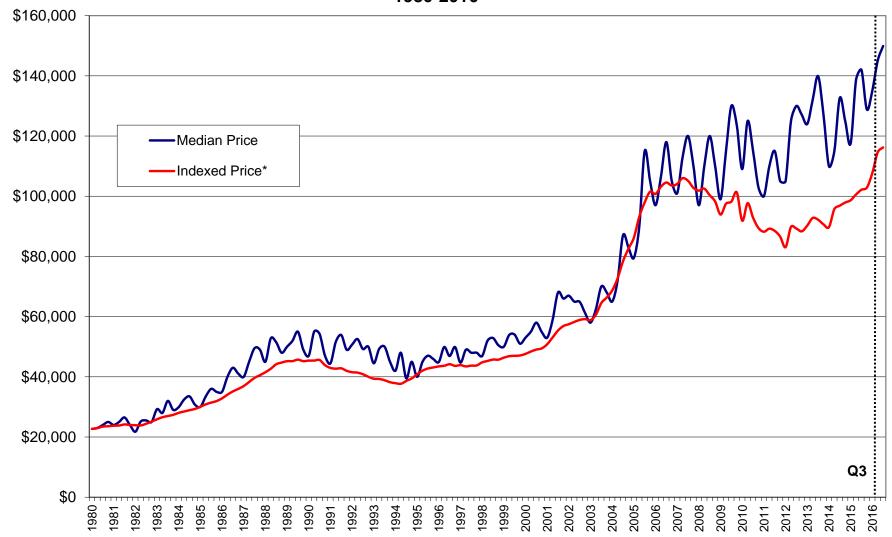


Philadelphia Submarket Boundaries



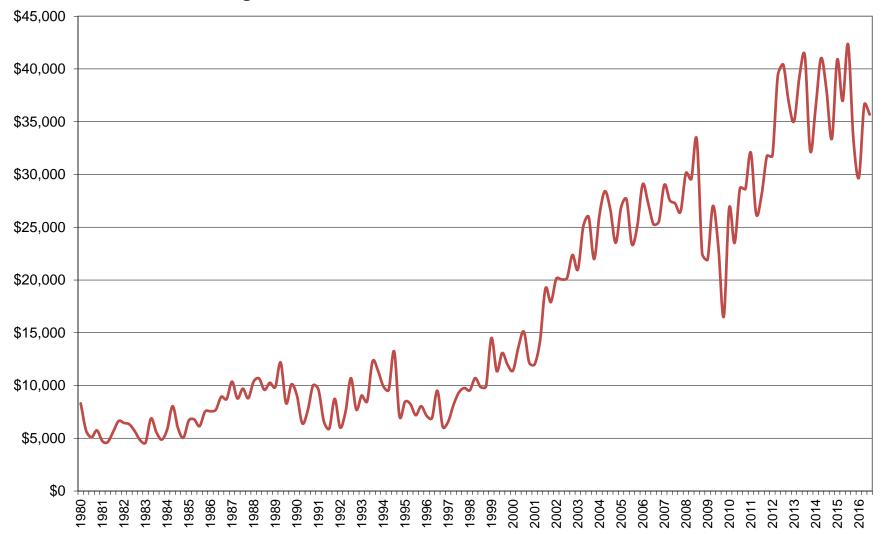


Median Philadelphia House Price v. Indexed Philadelphia House Price 1980-2016



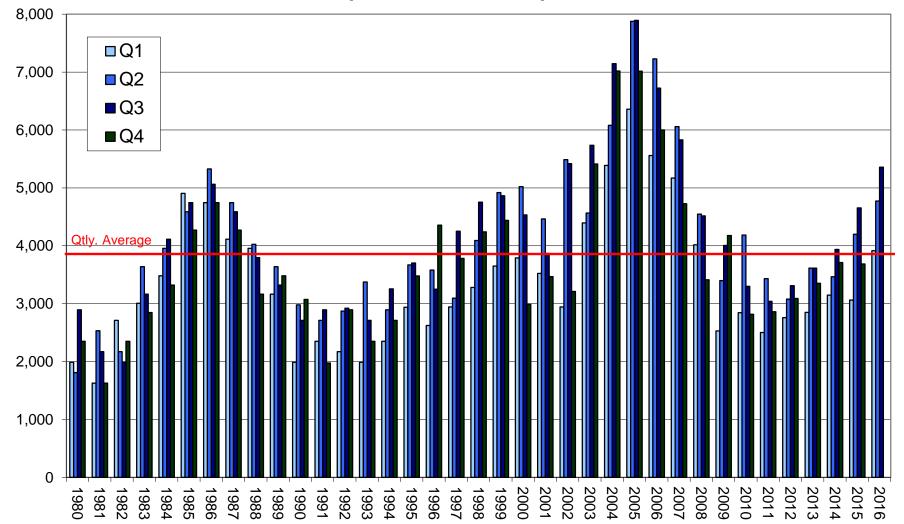


Average House Price Minus Median House Price: 1980-2016



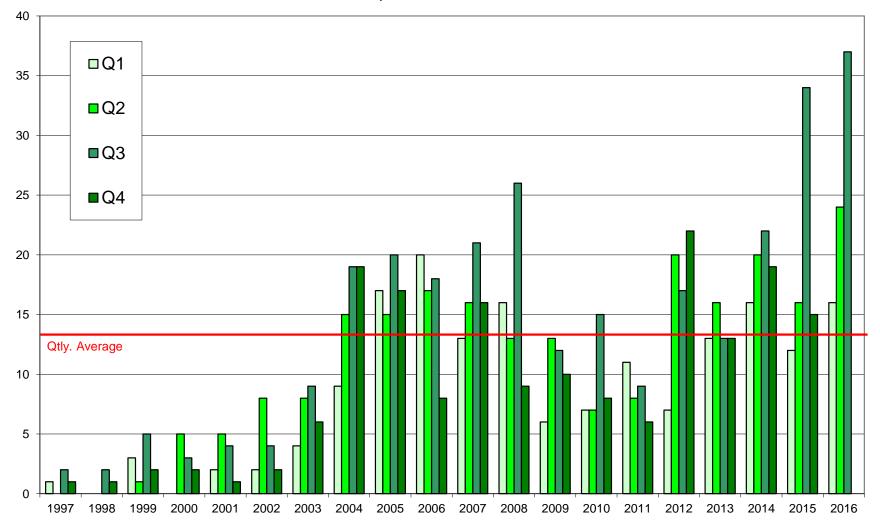


Number of Philadelphia House Sales* per Quarter: 1980-2016



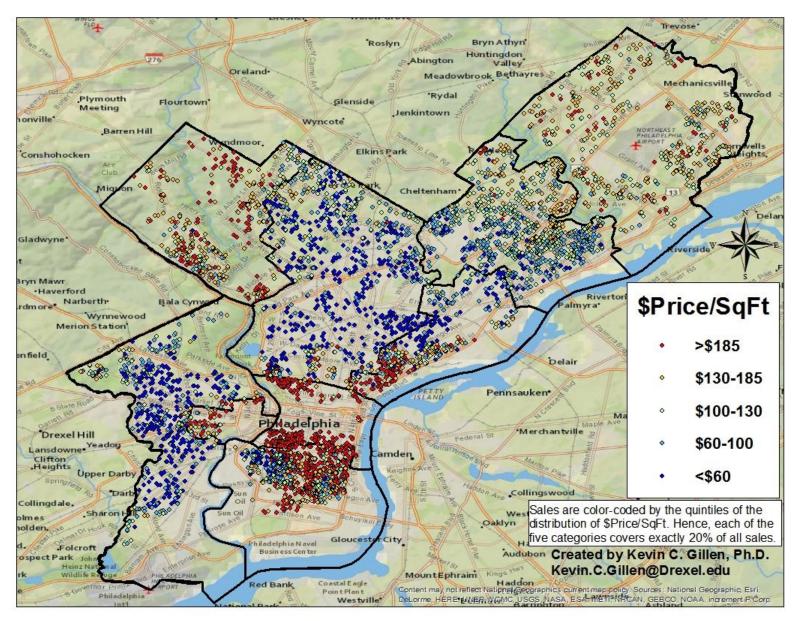


Number of Philadelphia Home Sales* per Quarter with Price>=\$1 Million: 1997-2016



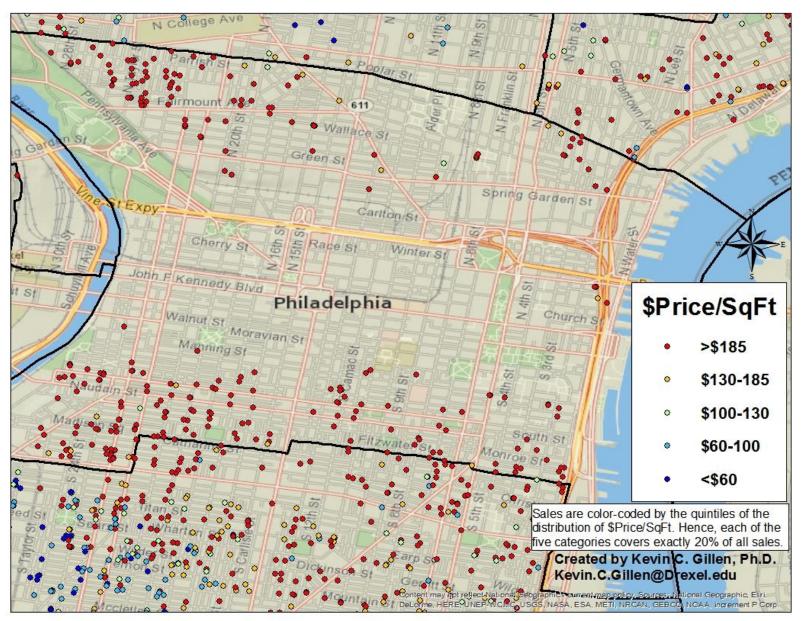


Philadelphia House Sales in 2016 Q3



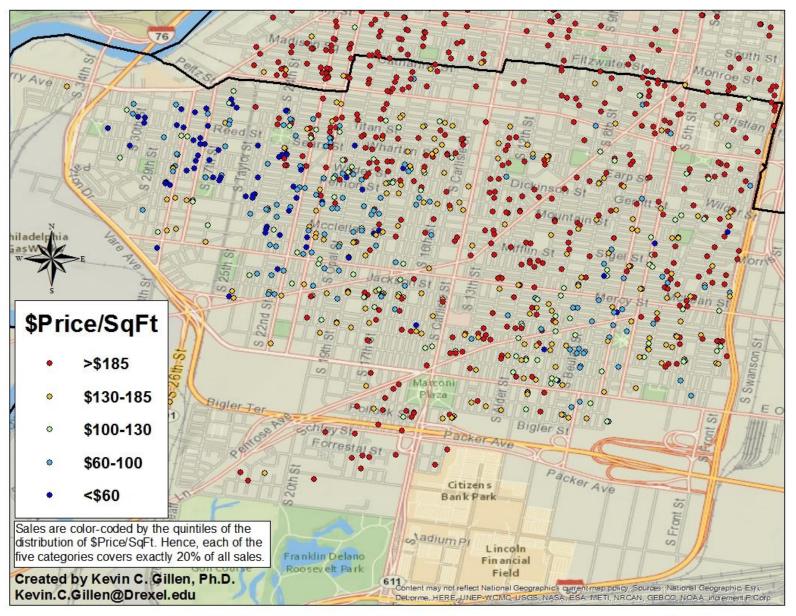


Center City House Sales in 2016 Q3

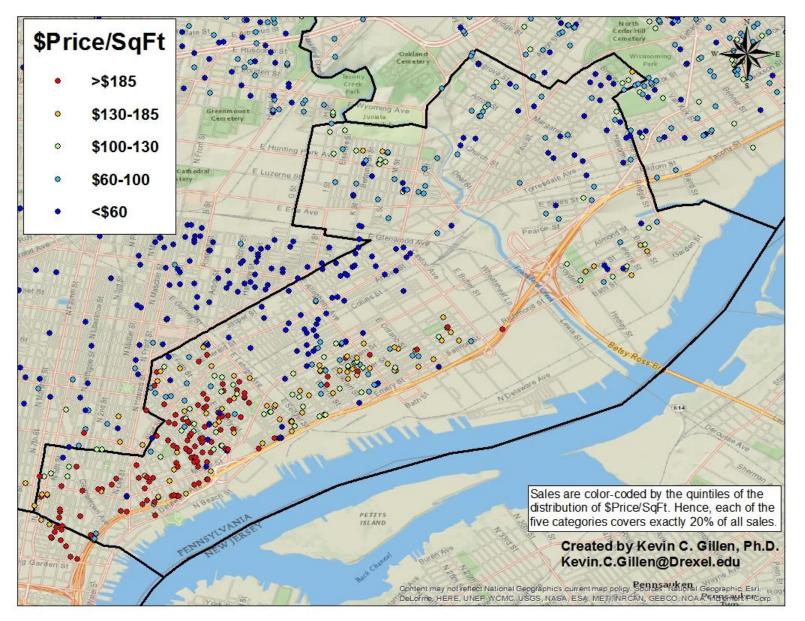




South Philadelphia House Sales in 2016 Q3

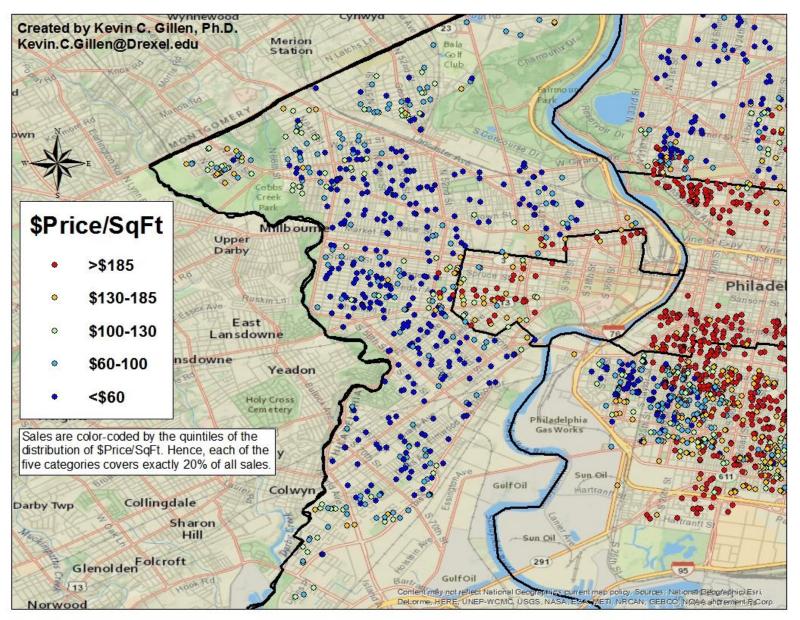


Kensington/Frankford House Sales in 2016 Q3

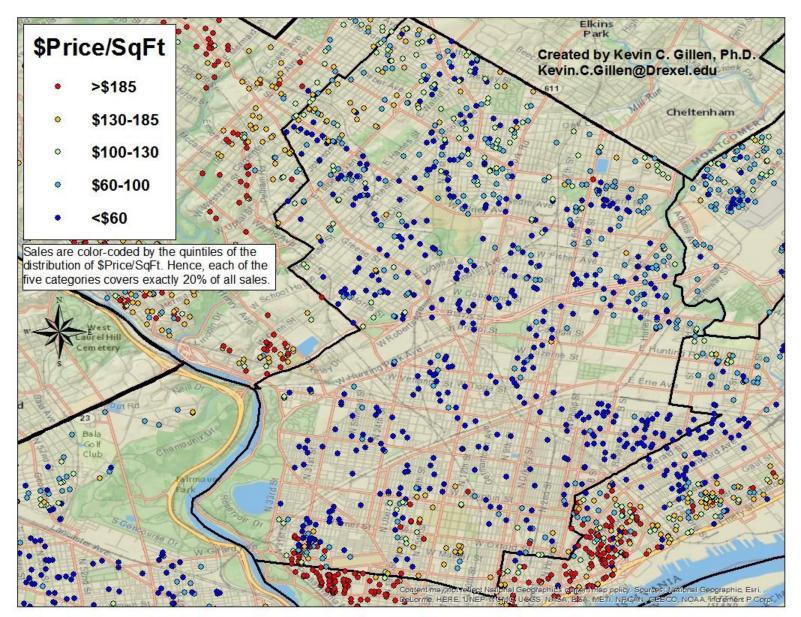




West Philadelphia House Sales in 2016 Q3

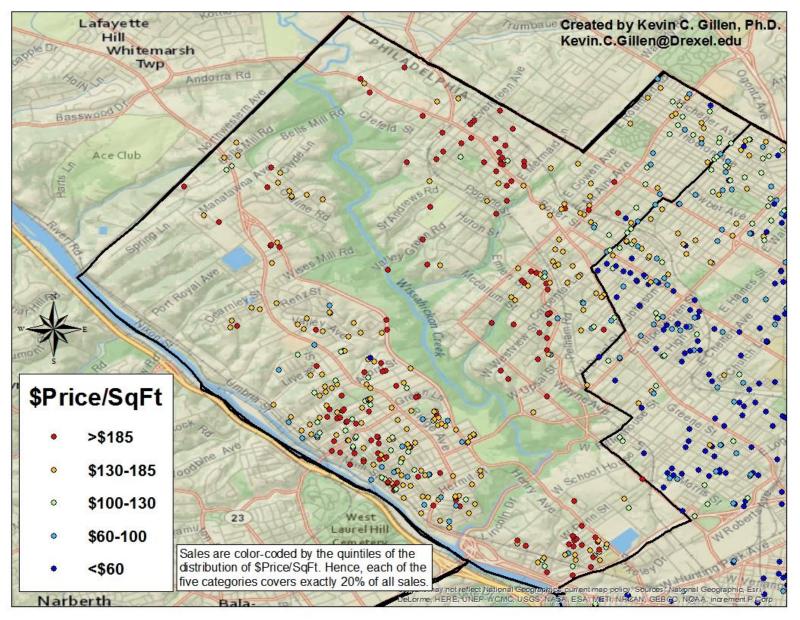


North Philadelphia House Sales in 2016 Q3

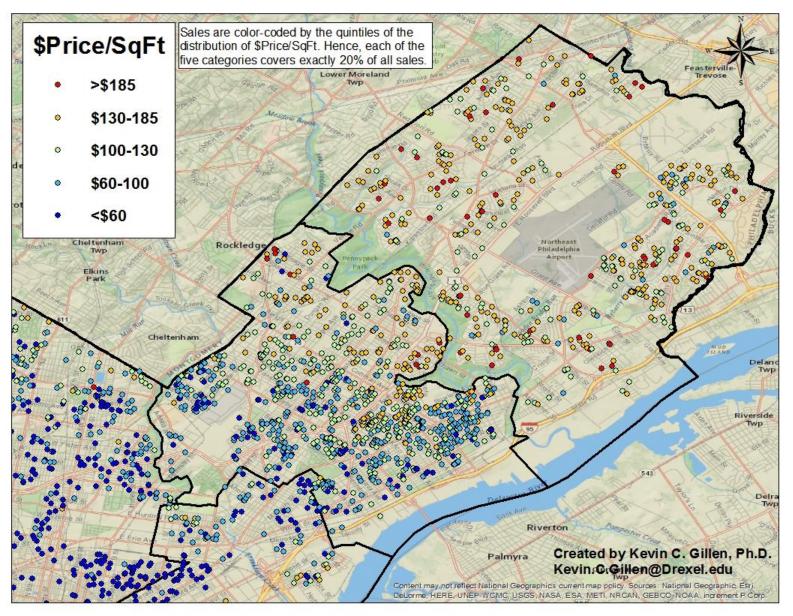




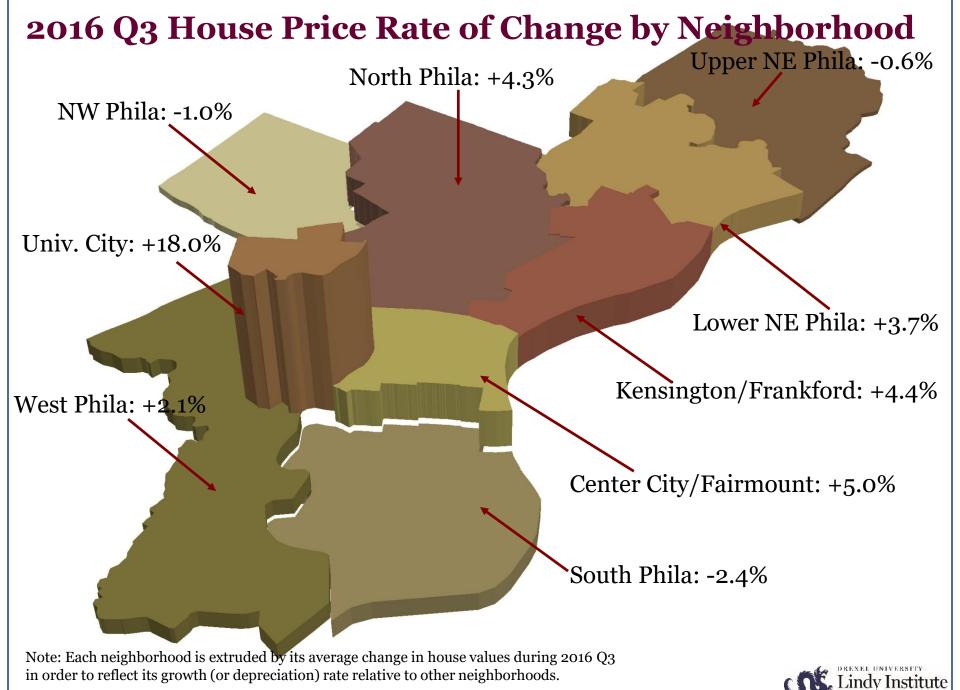
Northwest Philadelphia House Sales in 2016 Q3



Northeast Philadelphia House Sales in 2016 Q3

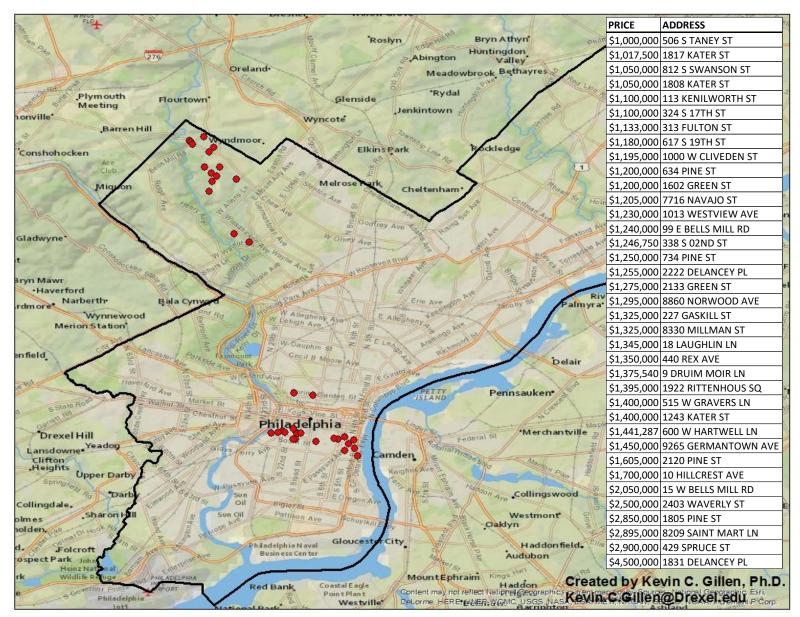




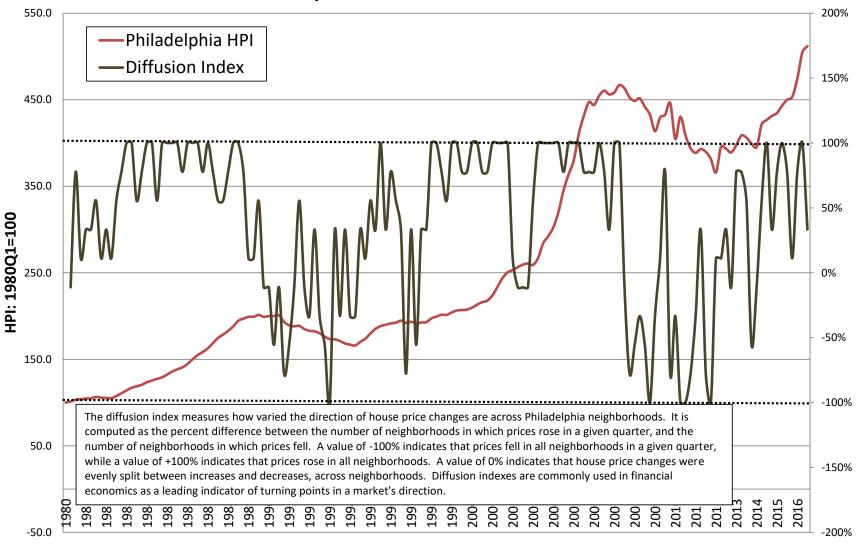




+\$1 Million Dollar House Sales in 2016 Q3

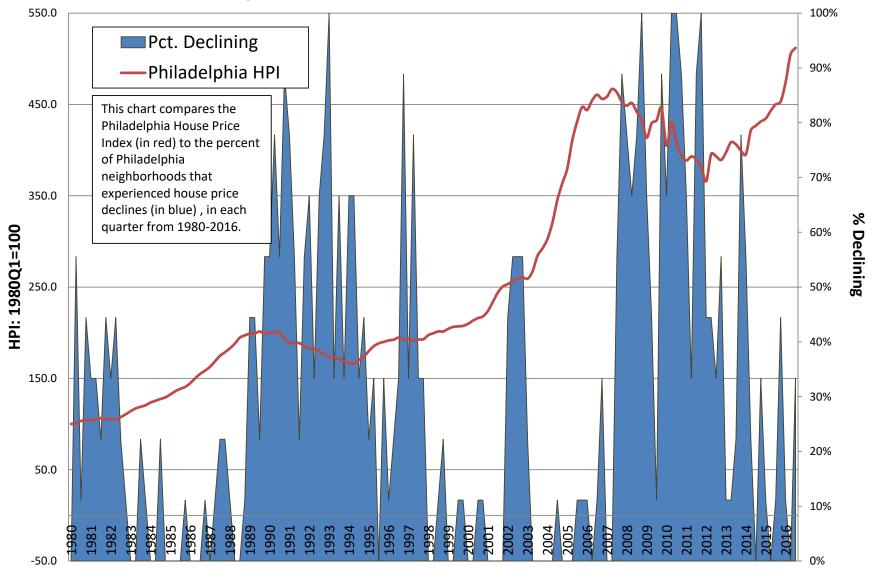


Philadelphia House Price Diffusion Index



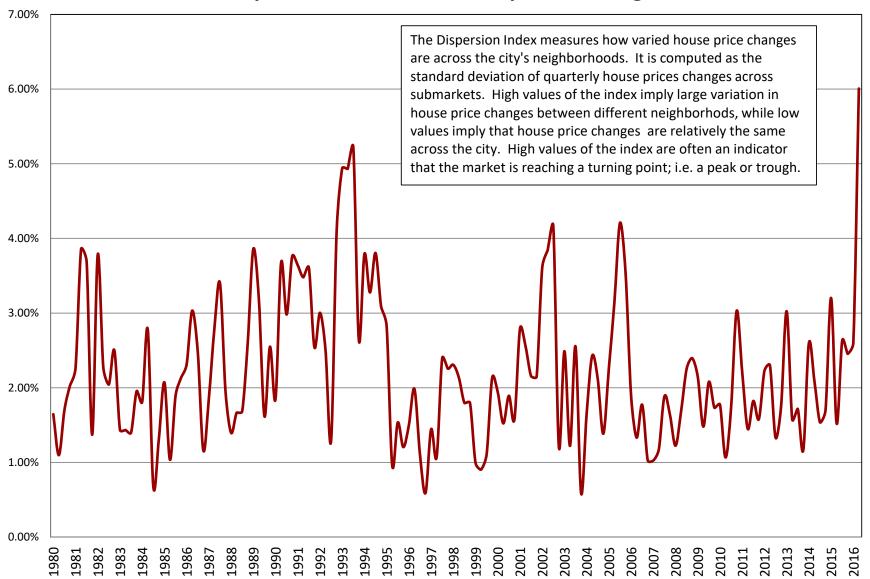


Philadelphia House Prices: Declines v. House Price Index

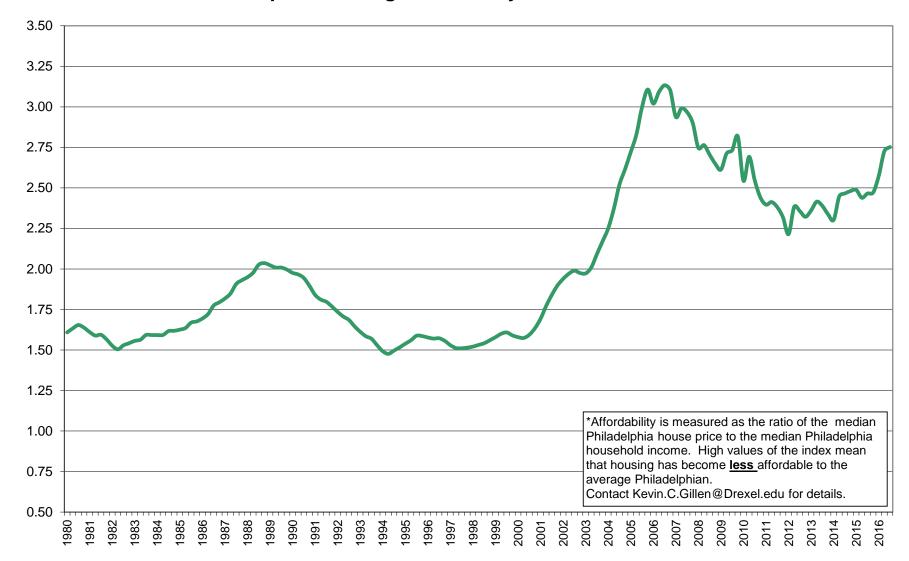




Dispersion Index of Philadelphia Housing

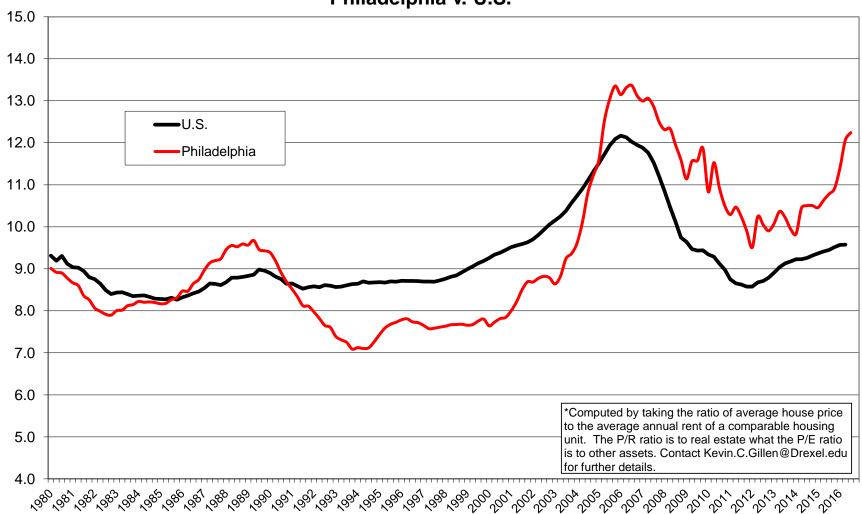


Philadelphia Housing Affordability* Index: 1980-2016



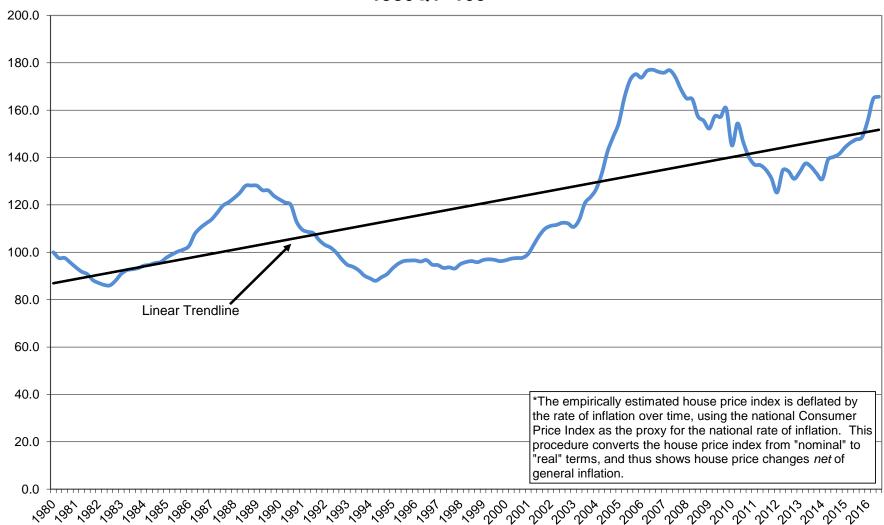


Average House Price-to-Rent Ratios*: 1980-2016 Philadelphia v. U.S.





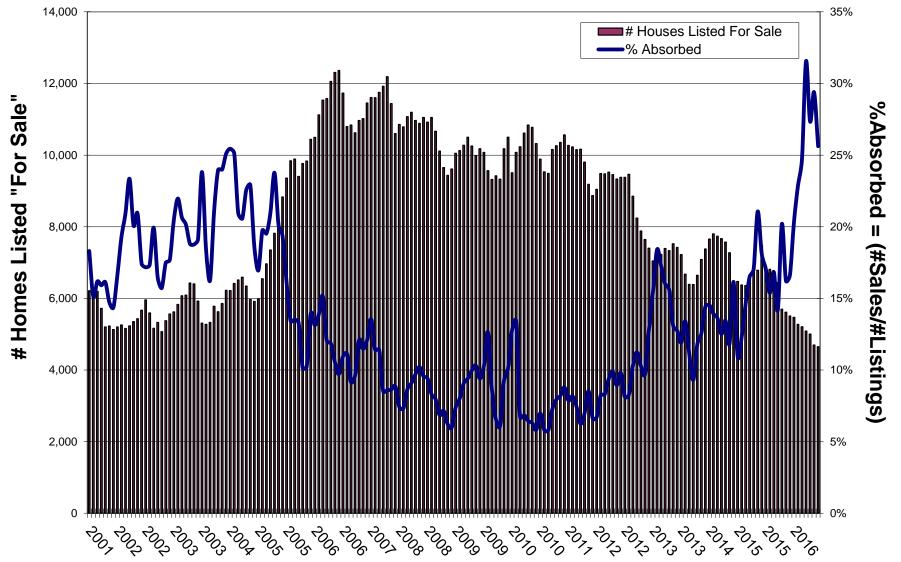
Inflation-Adjusted* Philadelphia House Price Index 1980-2016 1980Q1=100



Source: US Bureau of Labor Statistics



Philadelphia Houses Listed For Sale: Inventory v. Absorption Rate

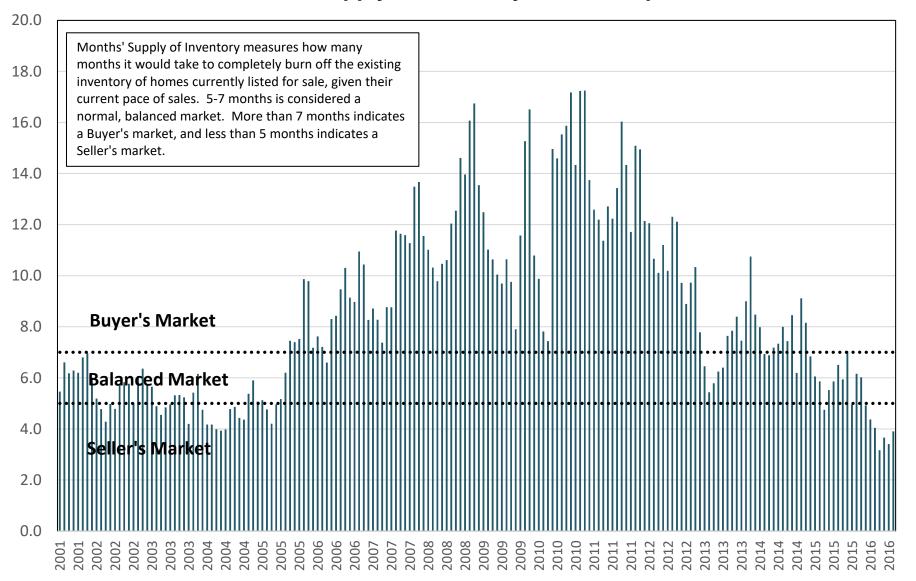


"%Absorbed" is defined as the percent of homes listed for sale in a given month that also sold in that same month.

© 2016 Drexel University | Kevin.C.Gillen@Drexel.edu

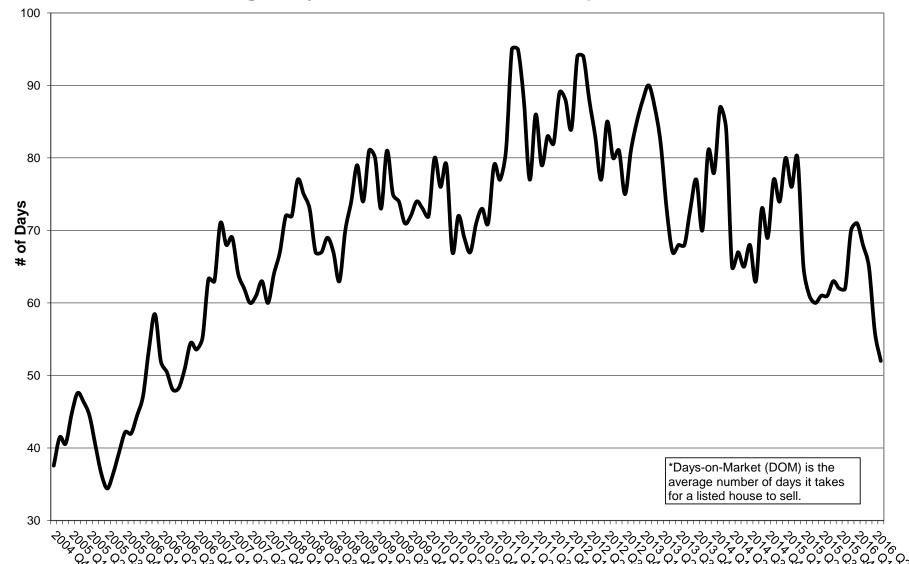
DREAGE UNIVERSITY
Lindy Institute
for Urban Innovation

Months' Supply of Inventory in Philadelphia



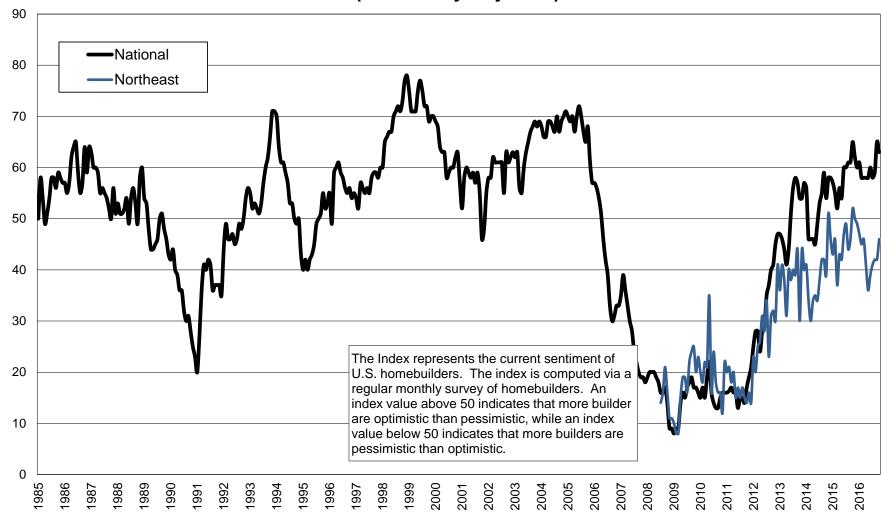


Average Days-on-Market* for Philadelphia Homes





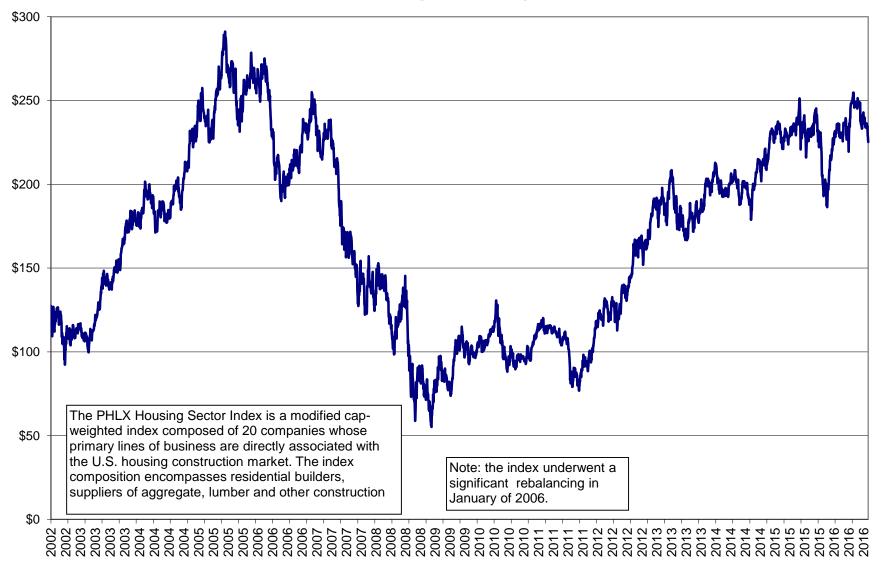
Index of Homebuilder Sentiment: 1985-2016 (Seasonally Adjusted)



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

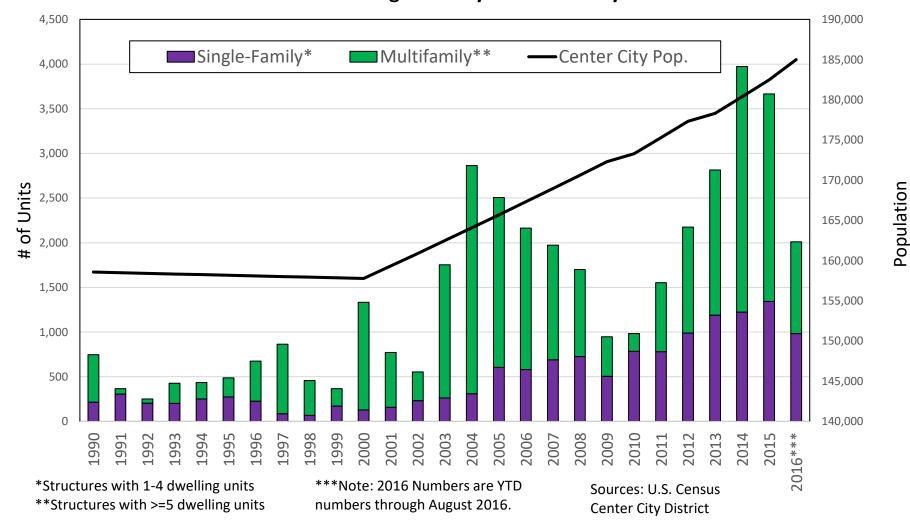


Philadelphia Stock Exchange Housing Sector Index: 2002-2016





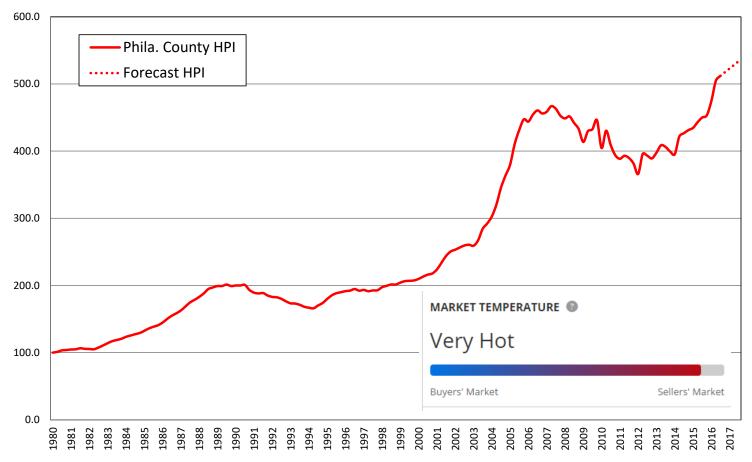
Building Permits Issued for Construction of Residential Units in Philadelphia: Single-Family v. Multifamily





Philadelphia House Price Index and 1-Year Forecast





Zillow.com is currently forecasting Philadelphia house prices to rise an average of 4.2% over the next year, which is an upgrade from its previous annual forecast of 2.9% made three months ago. It has maintained its rating of Philadelphia's market temperature as "Very Hot", and currently characterizes it as a "Seller's Market".

Source: http://www.zillow.com/philadelphia-pa/home-values/© 2016 Drexel University | Kevin.C.Glllen@Drexel.edu