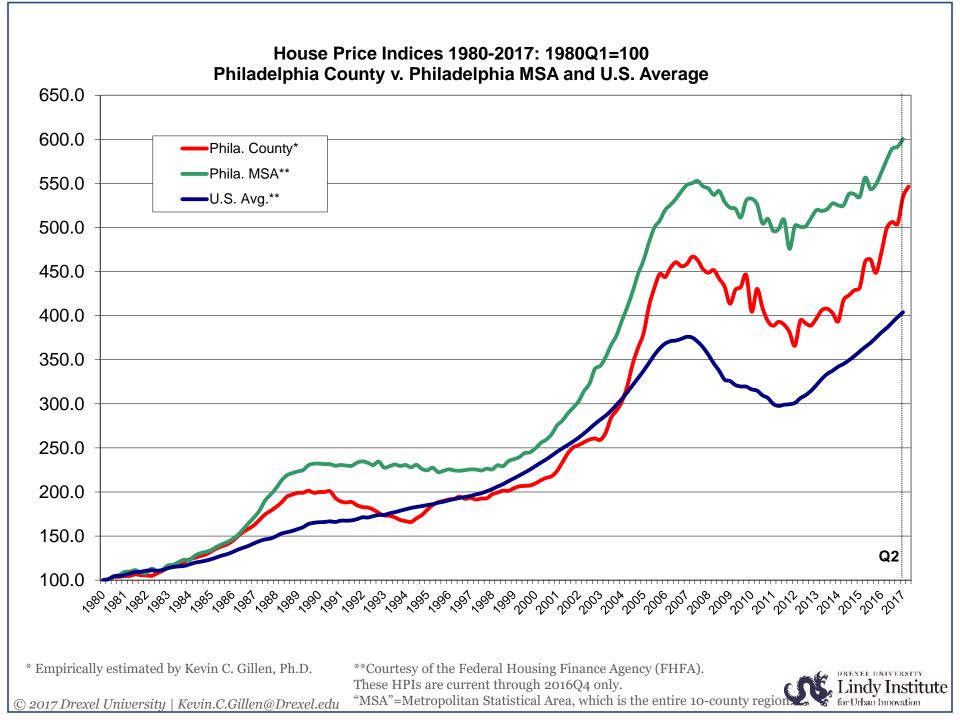
PHILADELPHIA HOUSE PRICE INDICES

July 20, 2017

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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.





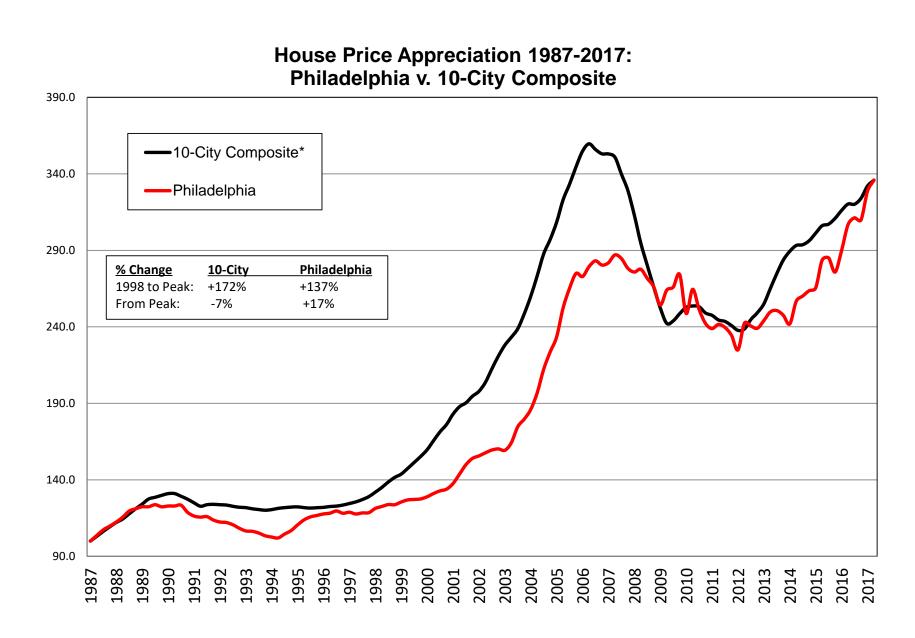
Total House Price Appreciation Rates by Geographic Market

Period	Philadelphia County*	Philadelphia MSA**	U.S.A. **
38-Year	169.8%	179.3%	139.6%
10-Year	15.7%	9.1%	7.1%
1-Year	9.0%	6.6%	5.8%
1-Quarter	3.2%	1.5%	1.4%

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

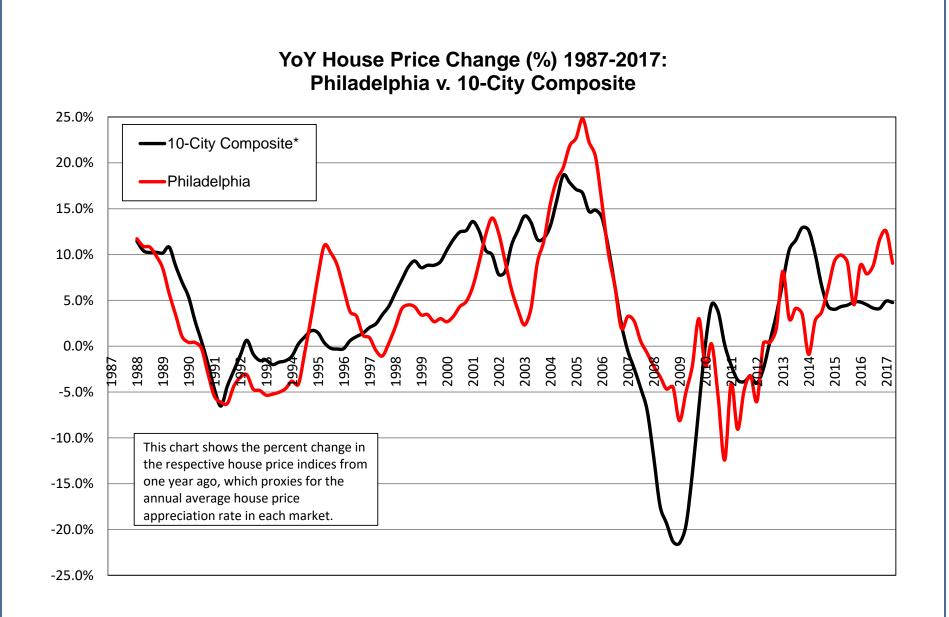
**Source: U.S. Federal Housing Finance Agency (FHFA). These numbers are through 2017Q1 only. "MSA"="Metropolitan Statistical Area", which is the entire 10-county region.





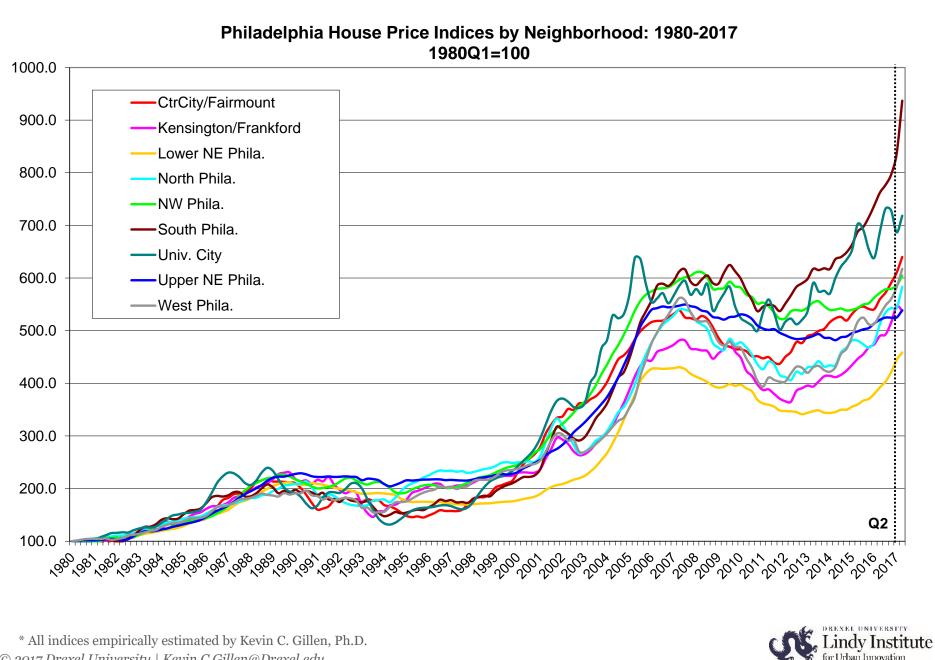
*Source: S&P/Case-Shiller. The 10-City Composite index includes Boston, Chicago, Denver, Las Vegas, Los Angeles, Miami, New York, San Diego, San Francisco, and Washington, DC. It does not include Philadelphia.





*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.





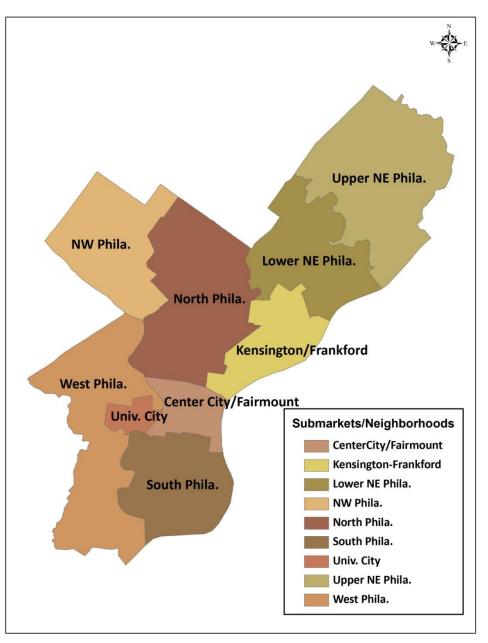
Period	Center City/ Fairmount	Kensington /Frankford	Lower NE Phila.	North Phila.	NW Phila.	South Phila.	Univ. City	Upper NE Phila.	West Phila.
38-year	185.6%	168.3%	152.3%	176.4%	179.9%	223.7%	197.2%	168.4%	182.0%
10-year	17.2%	11.1%	6.3%	7.7%	1.3%	42.4%	20.4%	-1.6%	9.4%
1-Year	13.4%	9.3%	15.6%	12.9%	5.5%	20.6%	4.2%	3.4%	15.2%
1-Quarter	4.7%	-1.5%	3.1%	5.2%	3.2%	7•4%	3.5%	2.6%	4.8%

Philadelphia House Price Appreciation Rates by Neighborhood

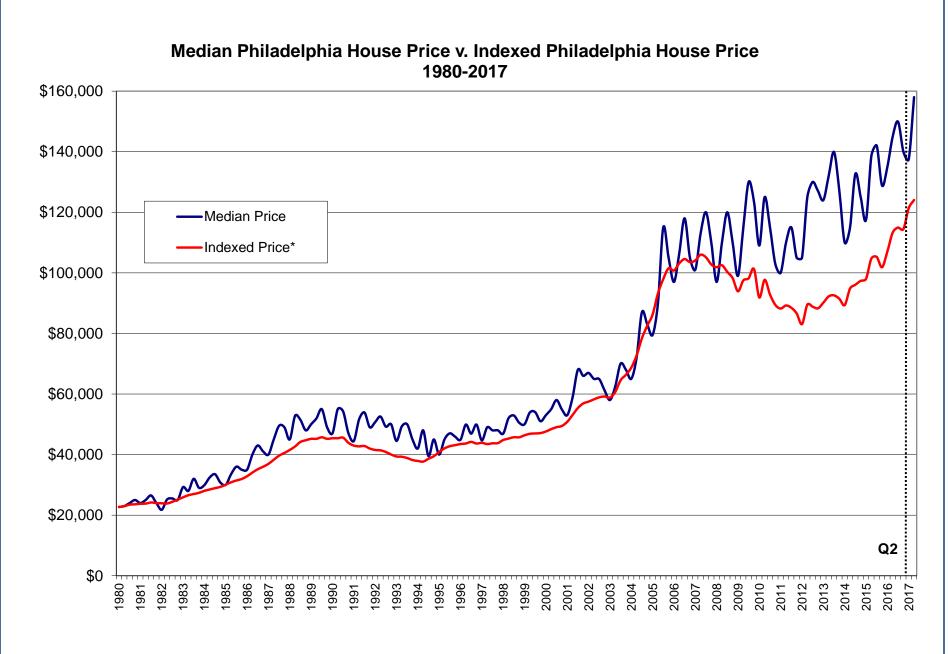
This table gives the total % change in average house values by neighborhood, through 2017 Q2, from different starting points in time.



Philadelphia Submarket Boundaries

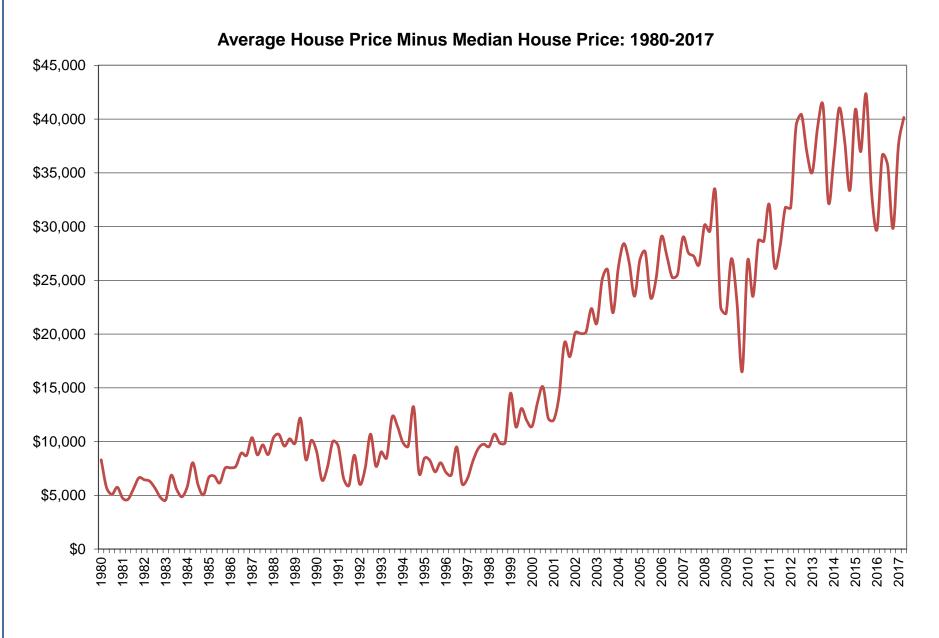






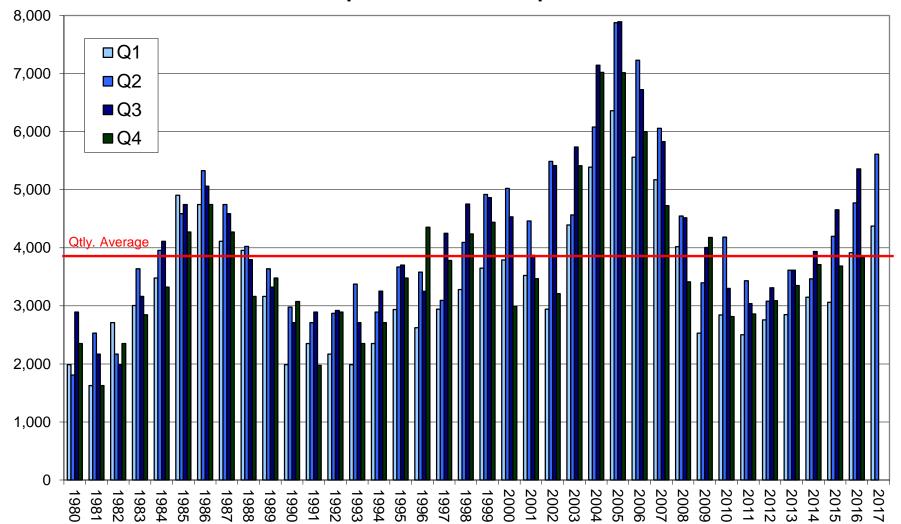
* Empirically estimated by Kevin C. Gillen, PhD © 2017 Drexel University | Kevin.C.Gillen@Drexel.edu







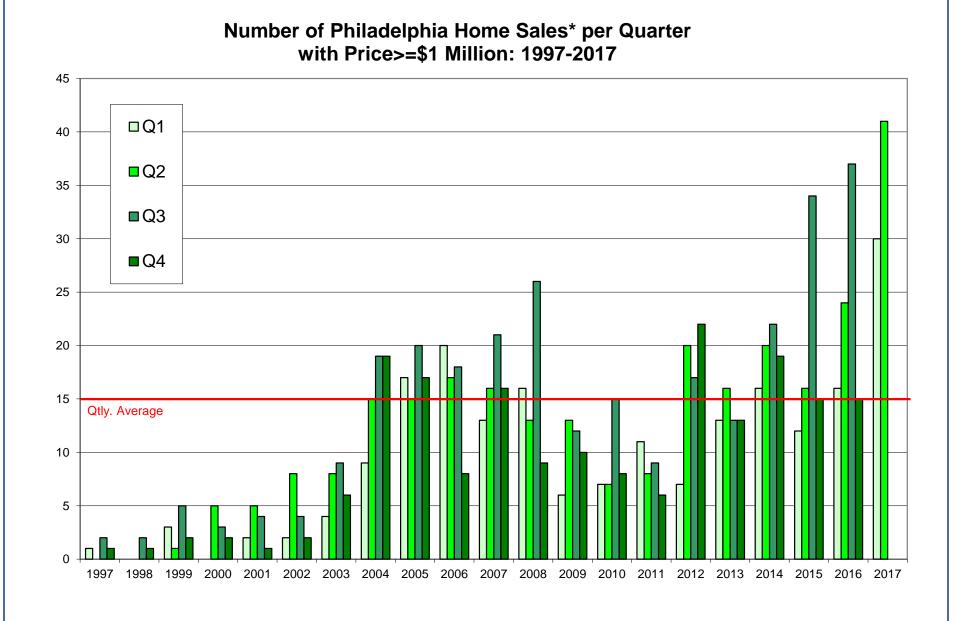




Number of Philadelphia House Sales* per Quarter: 1980-2017

*Only arms-length transactions between private sector entities were included in these numbers. © 2017 Drexel University | Kevin.C.Gillen@Drexel.edu

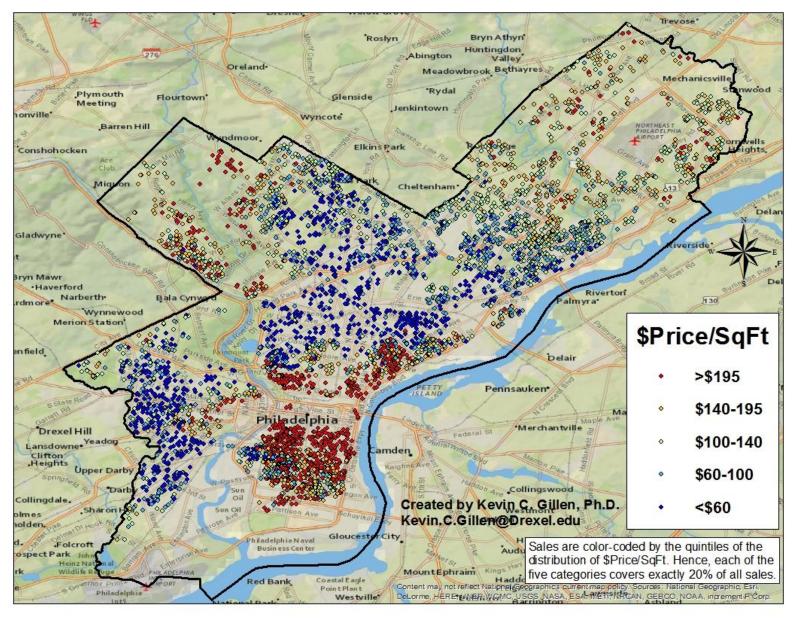




*Only arms-length transactions between private sector entities were included in these numbers. © *2017 Drexel University* | *Kevin.C.Gillen@Drexel.edu*

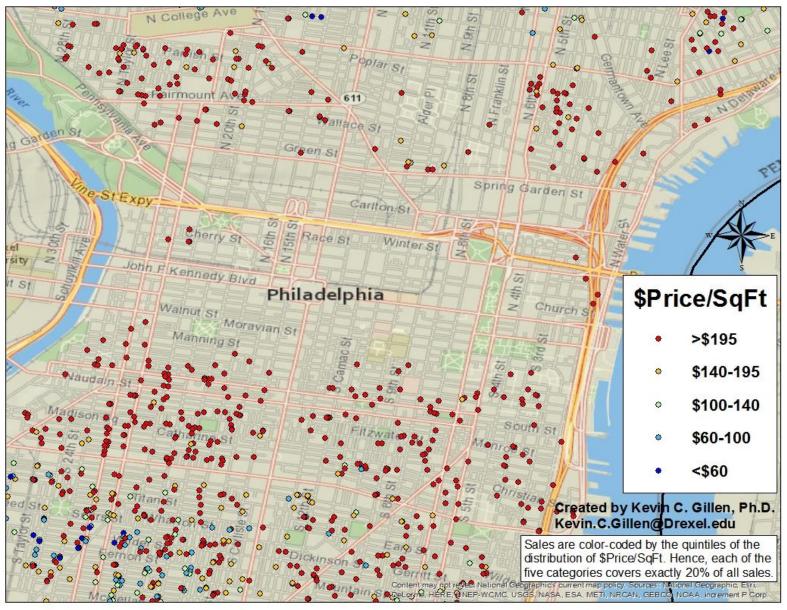


Philadelphia House Sales in 2017 Q2



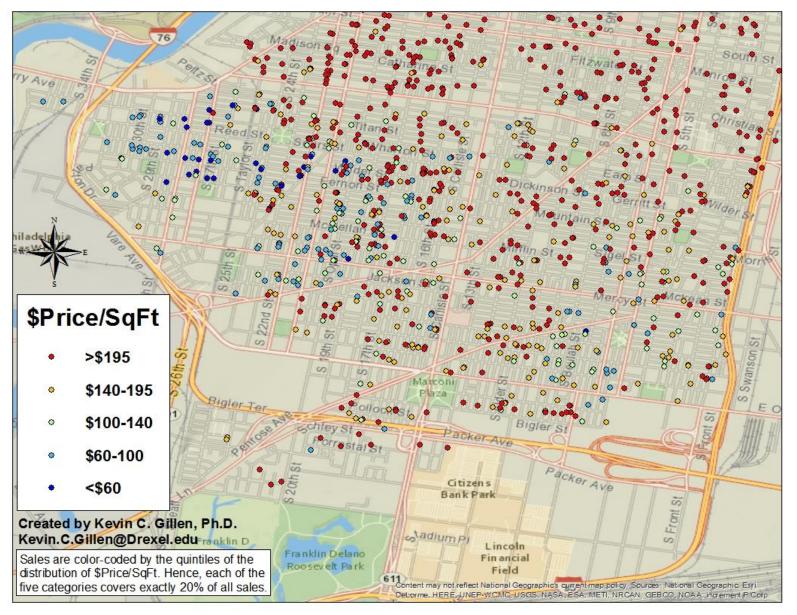


Center City House Sales in 2017 Q2



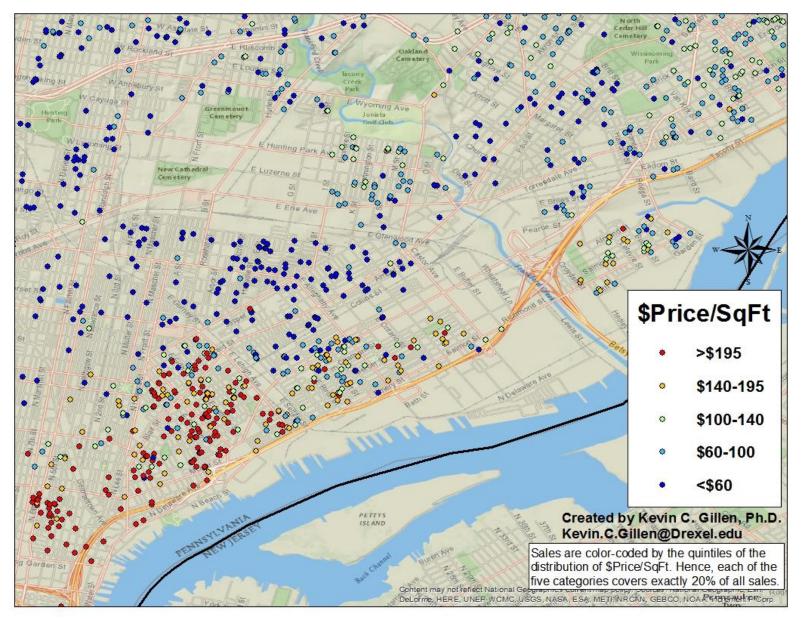


South Philadelphia House Sales in 2017 Q2



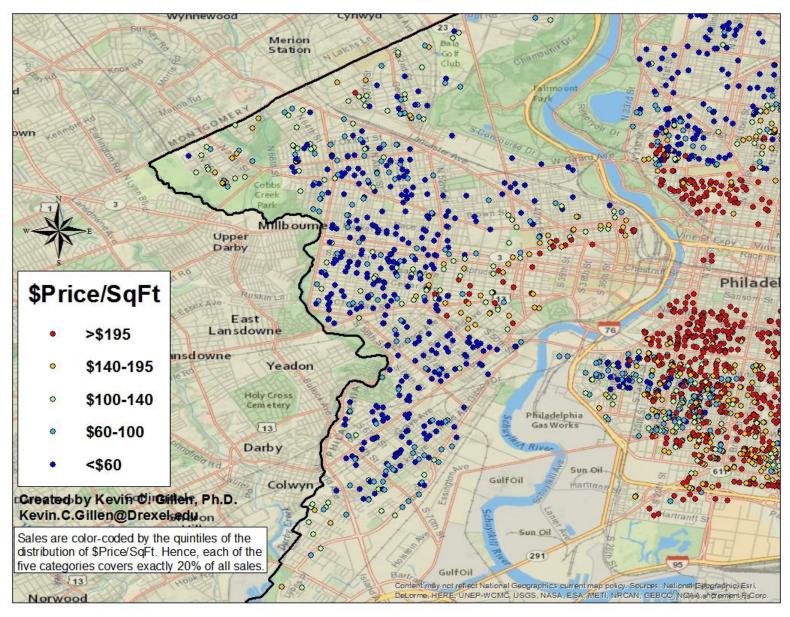


Kensington/Frankford House Sales in 2017 Q2



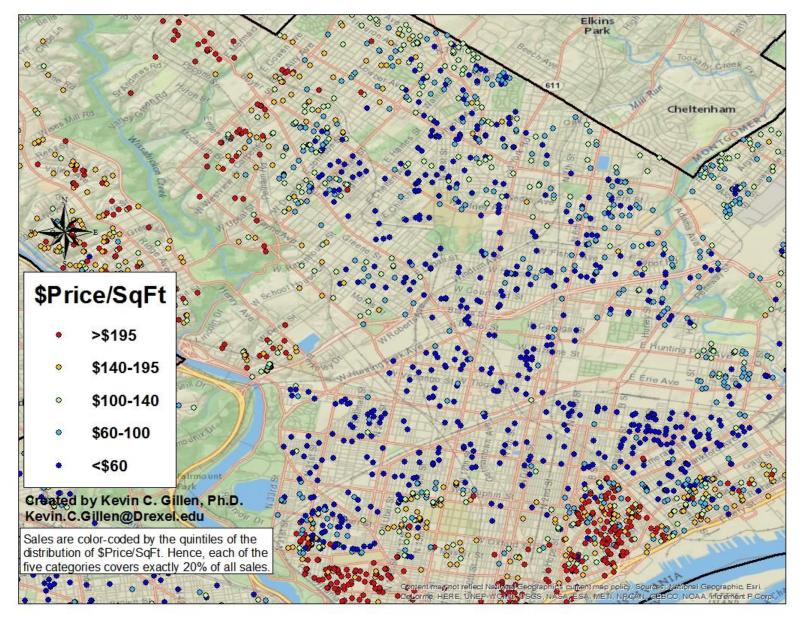


West Philadelphia House Sales in 2017 Q2



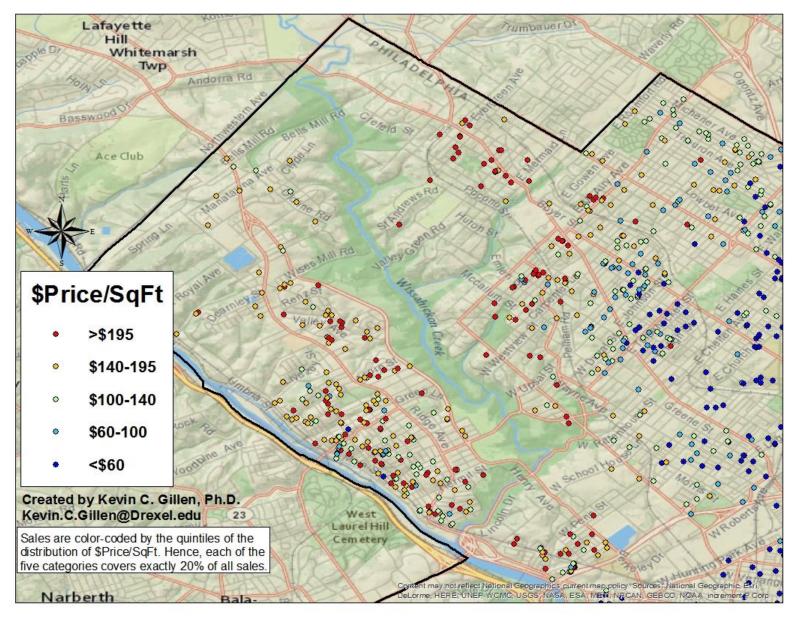


North Philadelphia House Sales in 2017 Q2



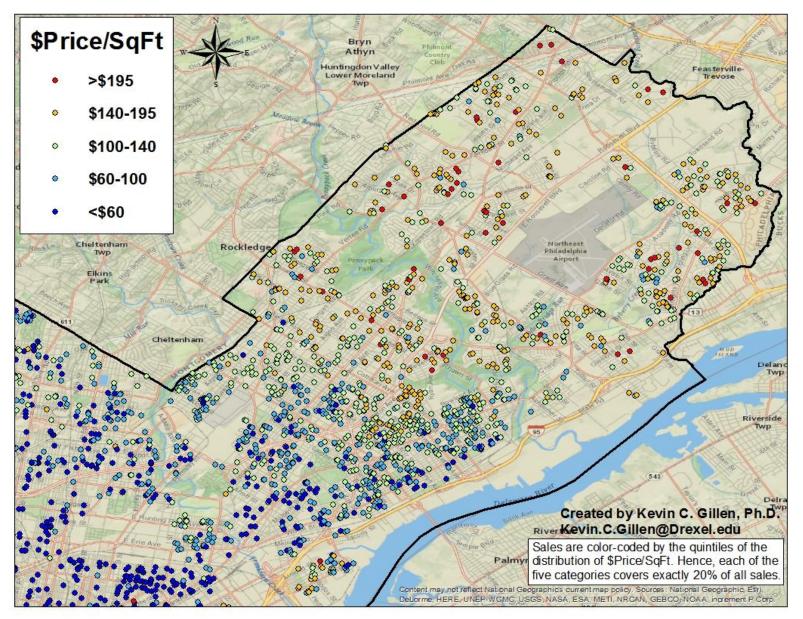


Northwest Philadelphia House Sales in 2017 Q2

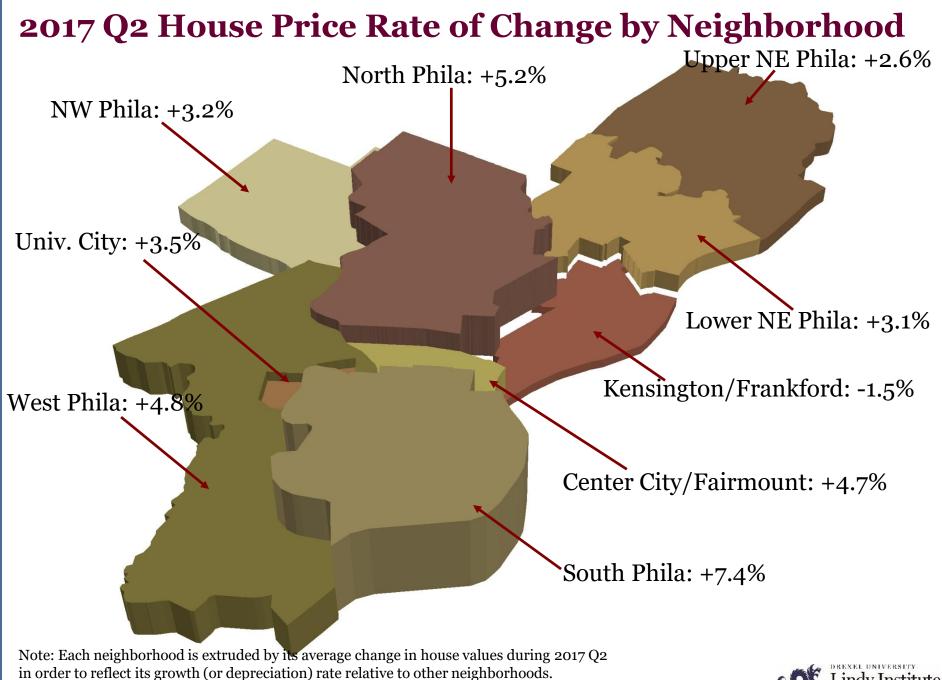




Northeast Philadelphia House Sales in 2017 Q2



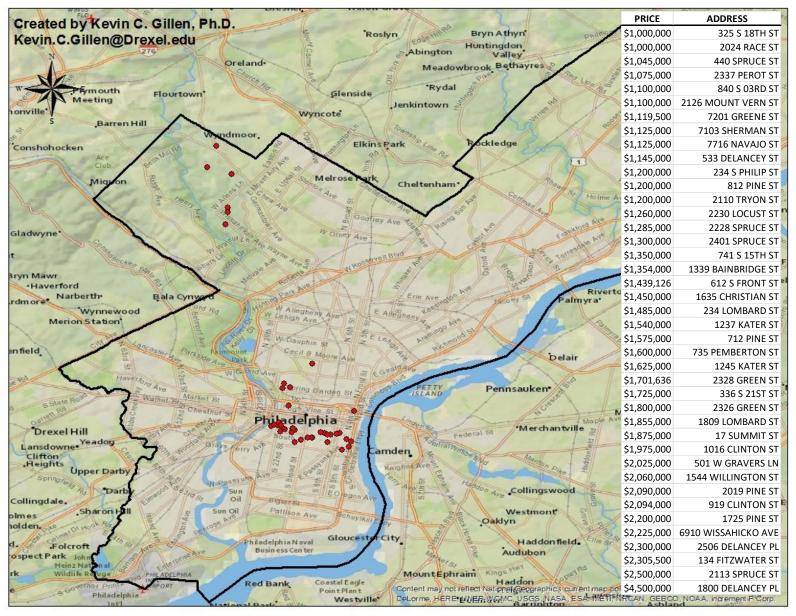




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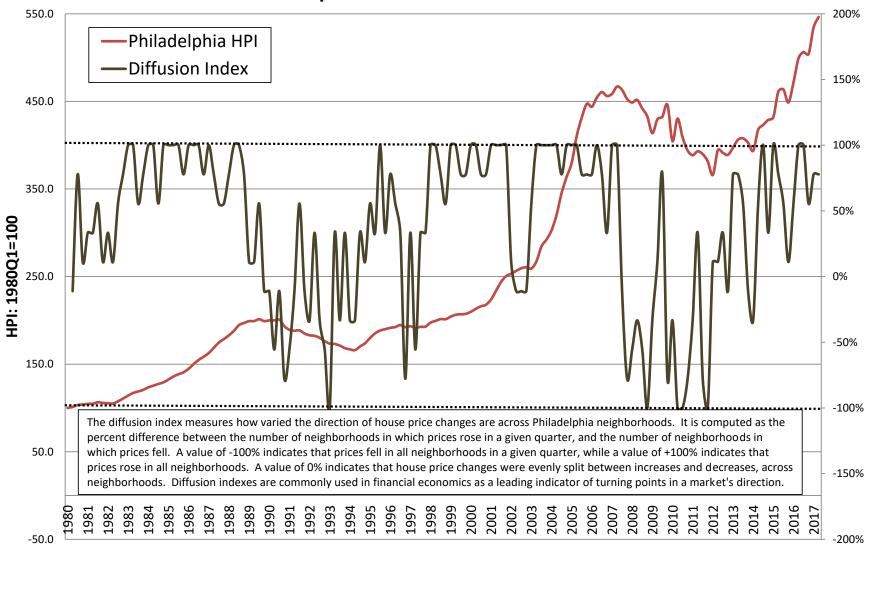
CONFIDENCE UNIVERSITY Lindy Institute for Urban Innovation

+\$1 Million Dollar House Sales in 2017 Q2



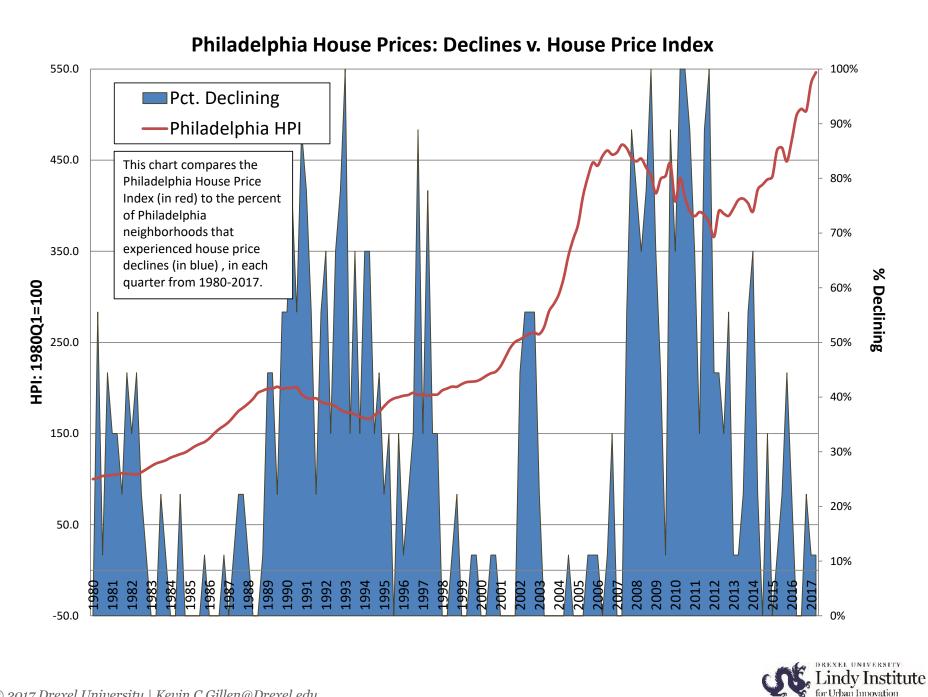


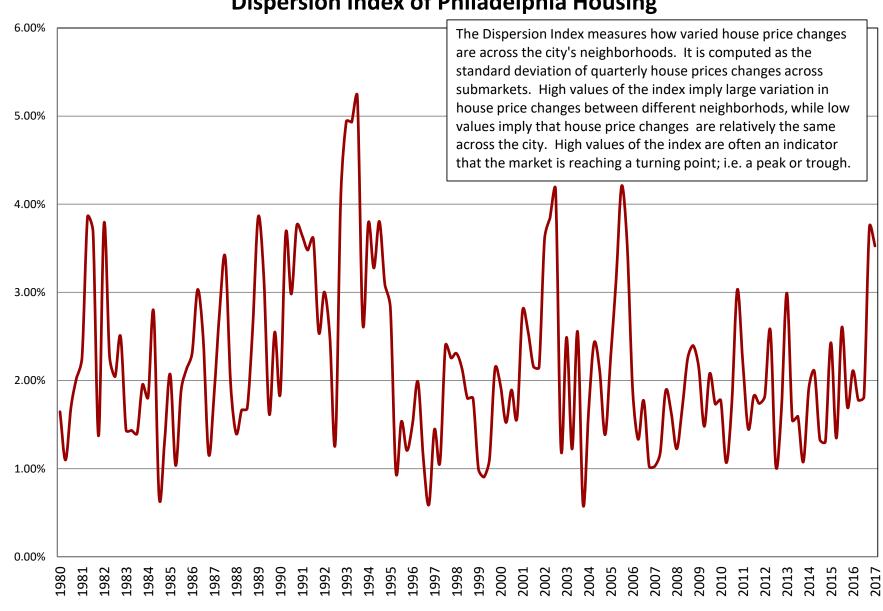
Philadelphia House Price Diffusion Index



Institute

for Urban Innovation

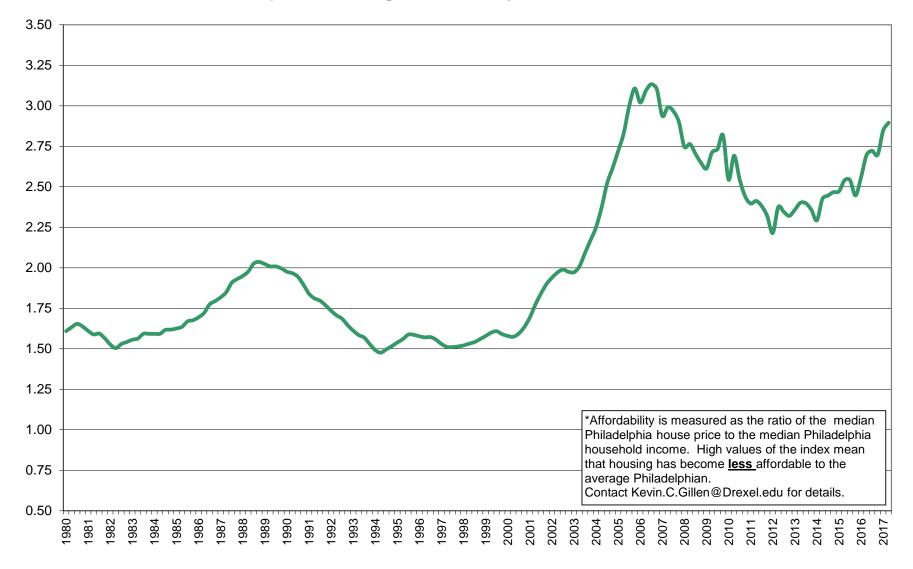




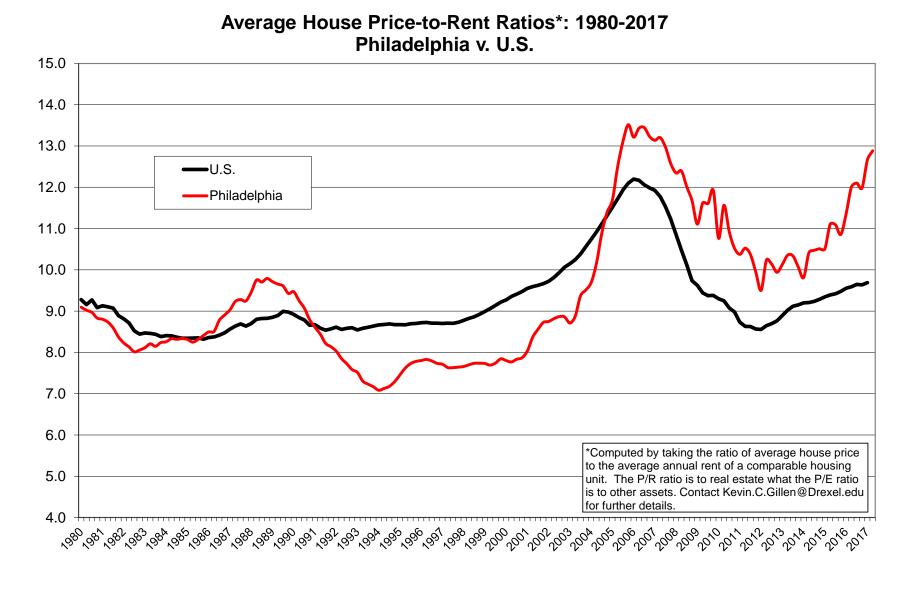
Dispersion Index of Philadelphia Housing



Philadelphia Housing Affordability* Index: 1980-2017

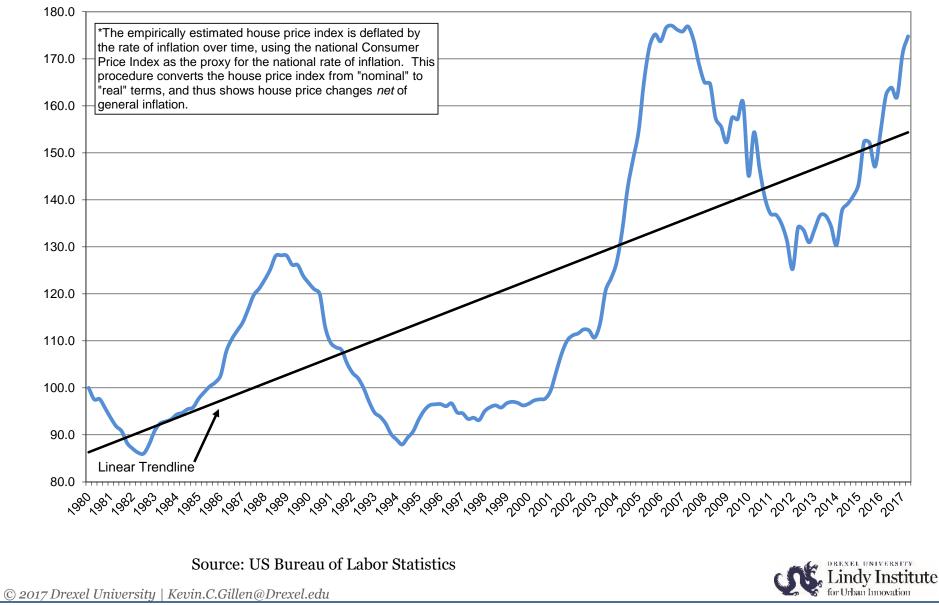


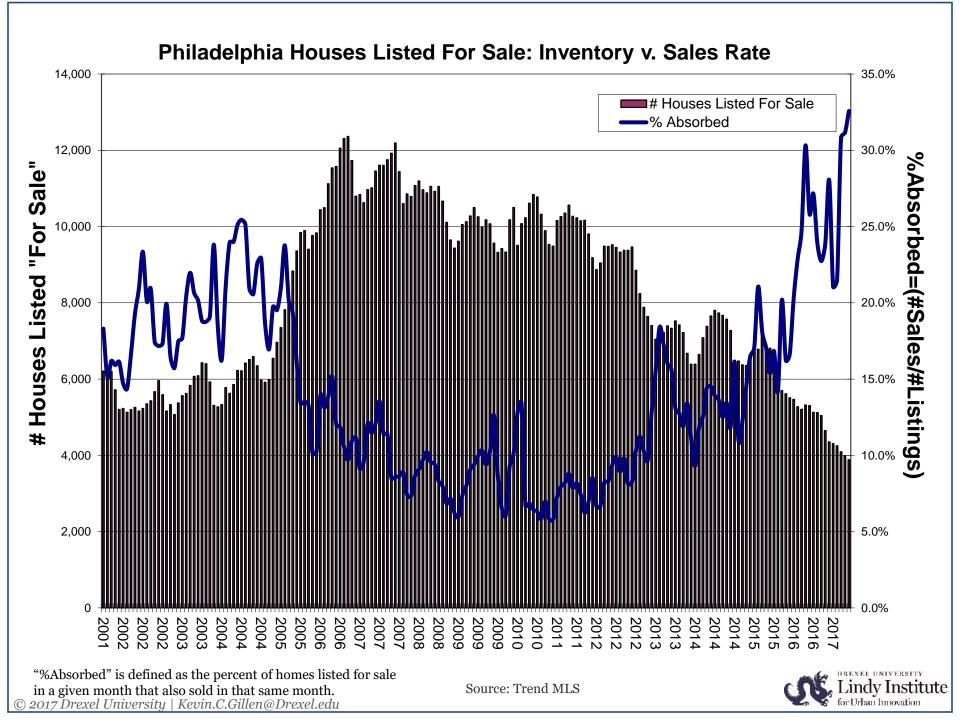




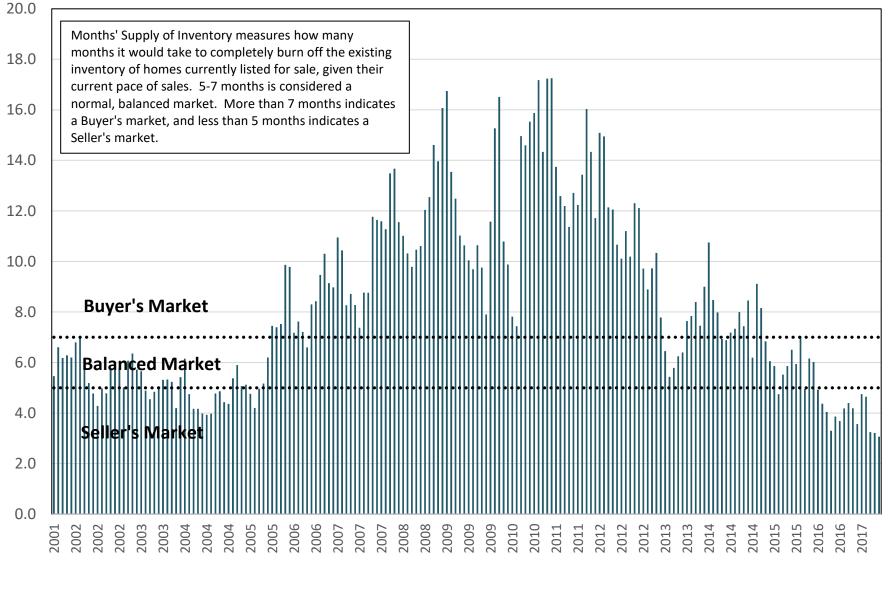


Inflation-Adjusted* Philadelphia House Price Index 1980-2017 1980Q1=100





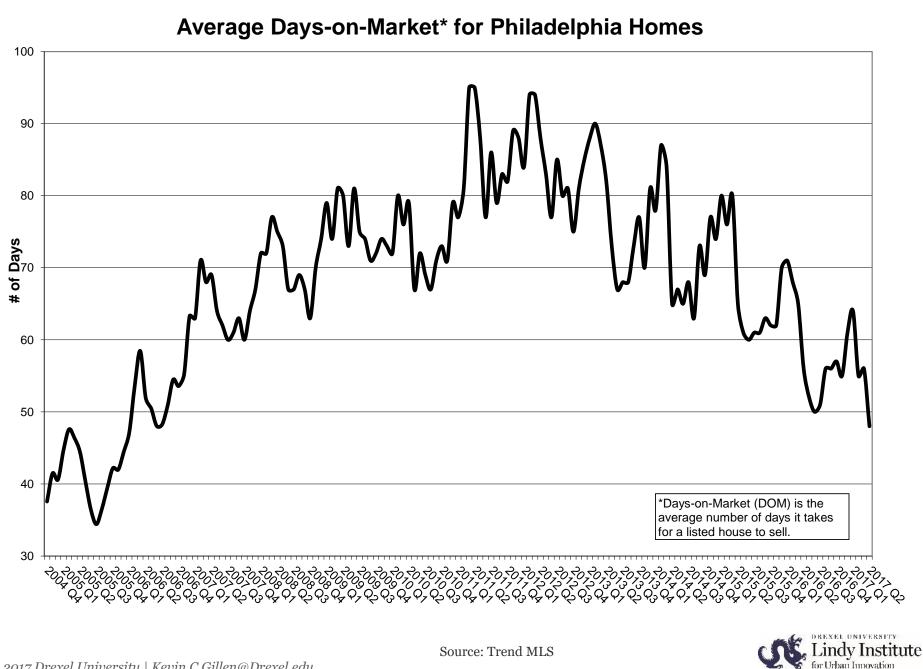
Months' Supply of Inventory in Philadelphia

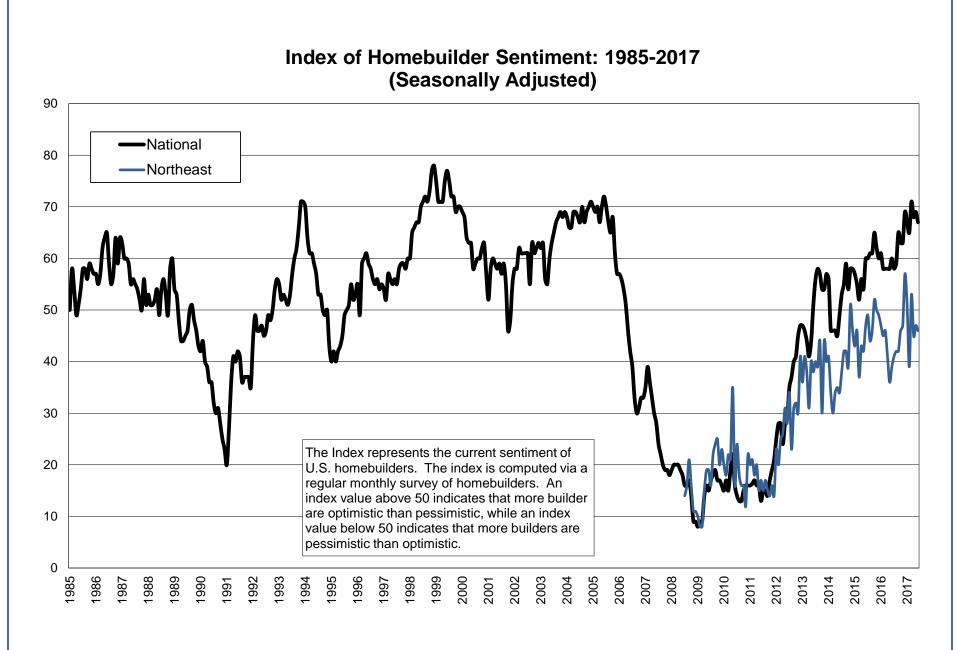


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Source: Trend MLS

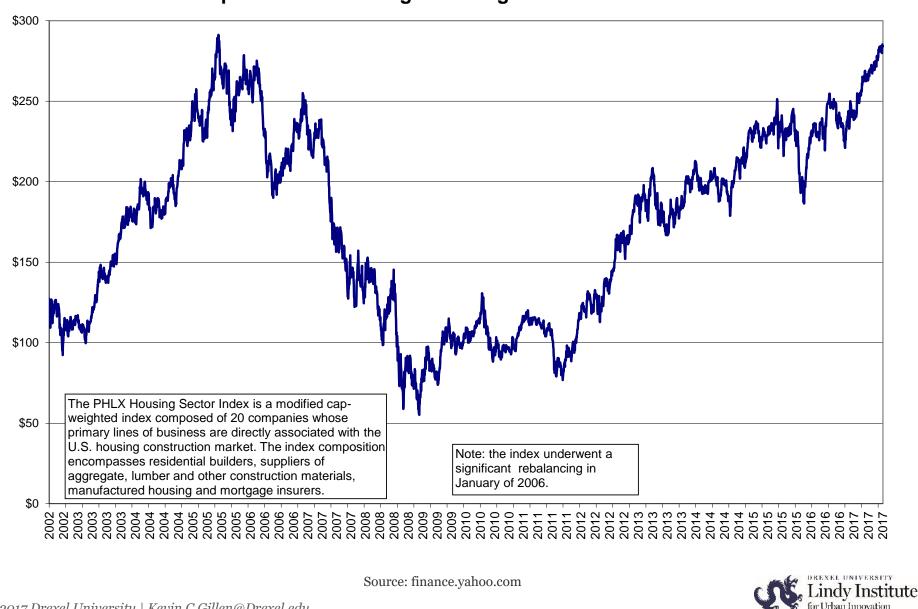




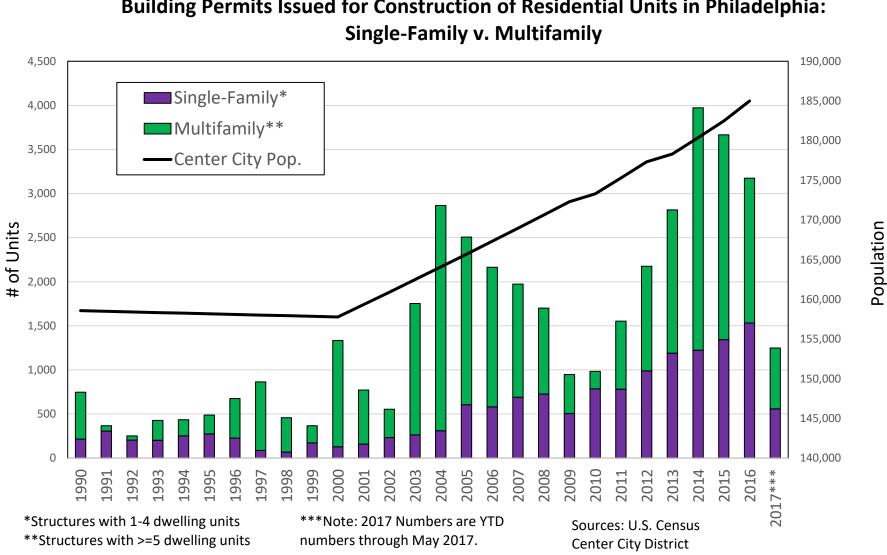


Source: National Assoc. of Homebuilders (NAHB)/Wells Fargo





Philadelphia Stock Exchange Housing Sector Index: 2002-2017

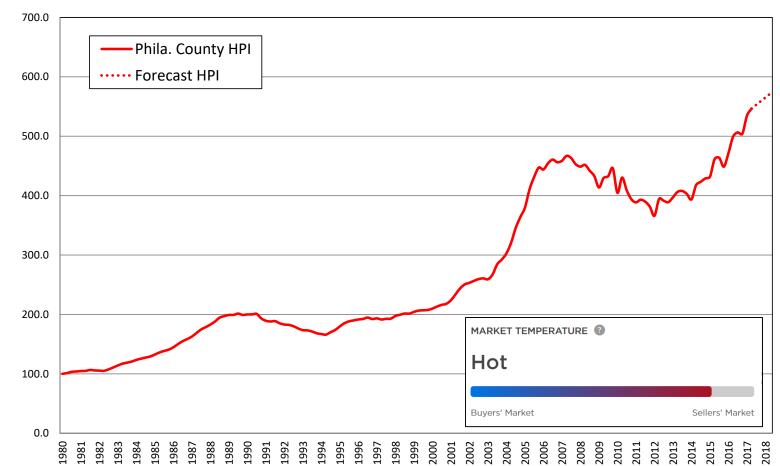


Building Permits Issued for Construction of Residential Units in Philadelphia:



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 4.5% over the next year, which is an upgrade from its previous forecast of 3.5% made three months ago. Zillow also currently rates the temperature of Philadelphia's housing market as "Hot", which is unchanged from the previous rating three months ago. Source: http://www.zillow.com/philadelphia-pa/home-values/