PHILADELPHIA HOUSE PRICE INDICES

January 28, 2019



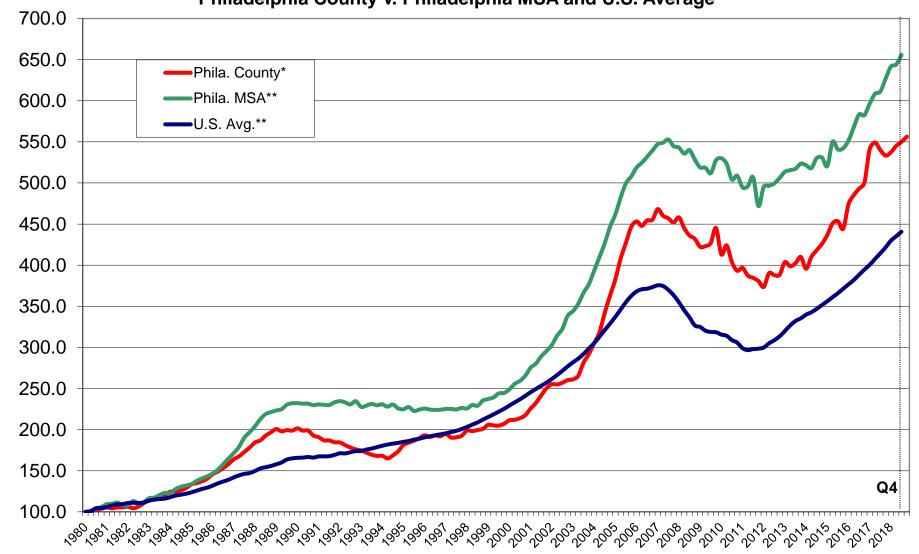
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House Price Indices 1980-2018: 1980Q1=100 Philadelphia County v. Philadelphia MSA and U.S. Average



^{*} 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

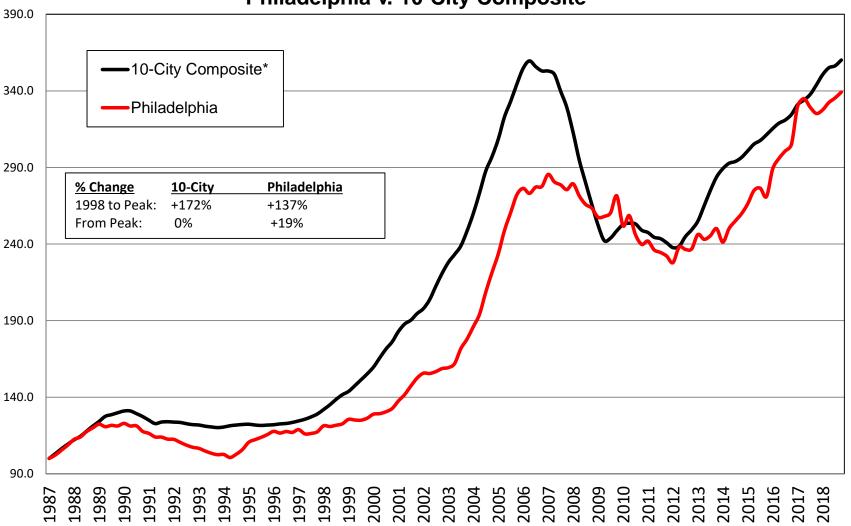
Period	Philadelphia County*	Philadelphia MSA**	U.S.A.**
38-Year	171.6%	188.1%	148.3%
10-Year	25.3%	19.5%	27.0%
1-Year	4.2%	7.1%	6.2%
1-Quarter	1.1%	1.8%	1.3%

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



^{**}Source: U.S. Federal Housing Finance Agency (FHFA). These numbers are through 2018Q3 only. "MSA"="Metropolitan Statistical Area", which is the entire 10-county region.

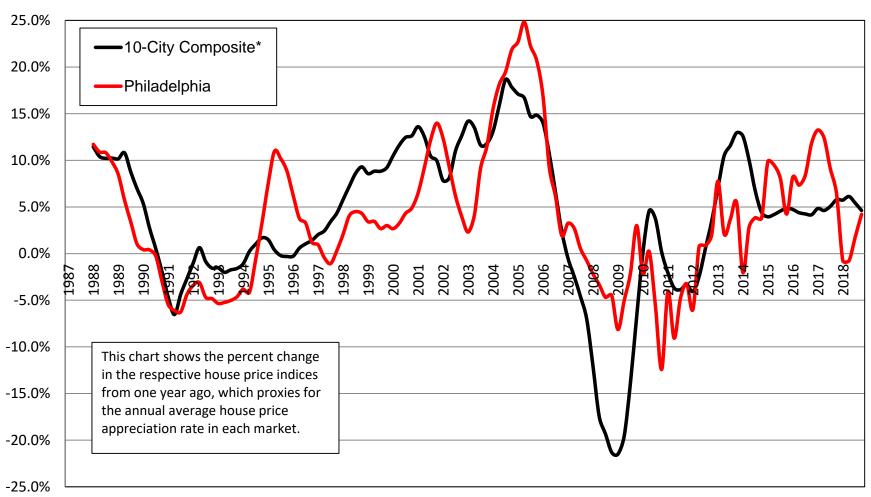
House Price Appreciation 1987-2018: Philadelphia v. 10-City Composite





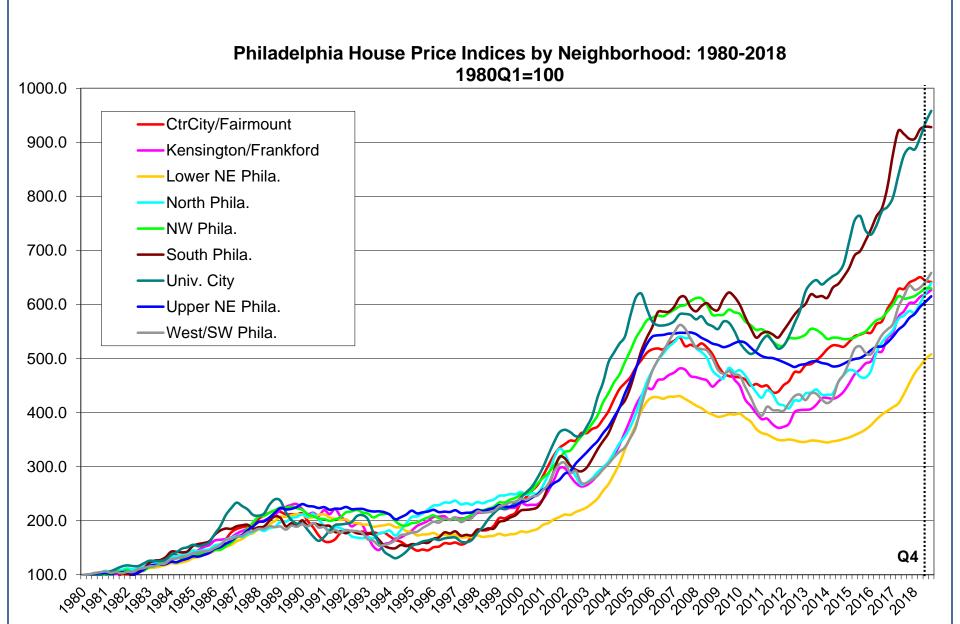
^{*}Source: S&P/Case-Shiller. The 10-City Composite index includes Boston, Chicago, Denver, Las Vegas, Los Angeles, Miami, New York, San Diego, San Francisco, and Washington, DC. It does not include Philadelphia.

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.





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

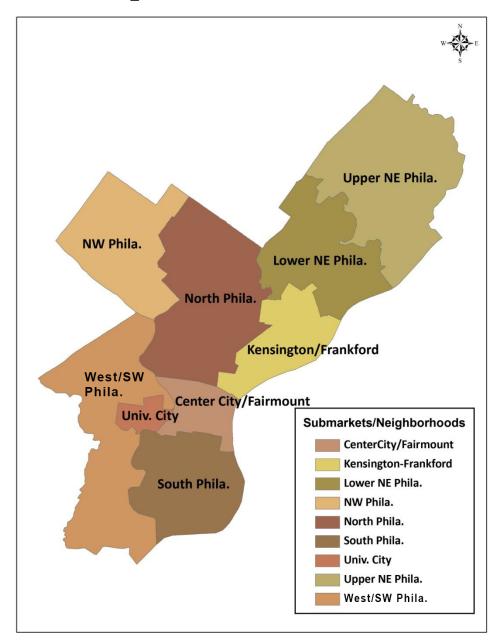
Philadelphia House Price Appreciation Rates by Submarket

Period	Center City/ Fairmount	Kensington /Frankford	Lower NE Phila.	North Phila.	NW Phila.	South Phila.	Univ. City	Upper NE Phila.	West /SW Phila.
38-year	185.9%	183.6%	162.5%	185.6%	184.0%	222.8%	226.0%	181.7%	188.5%
10-year	23.4%	33.6%	24.8%	29.2%	8.1%	45.0%	53.7%	15.4%	27.4%
1-Year	0.2%	4.0%	11.1%	8.4%	2.8%	2.4%	7.5 %	6.7%	3.6%
1-Quarter	-0.3%	1.2%	1.7%	2.8%	-0.1%	-0.1%	2.2%	1.6%	2.4%

This table gives the total % change in average house values by submarket, through 2018 Q4, from different starting points in time.

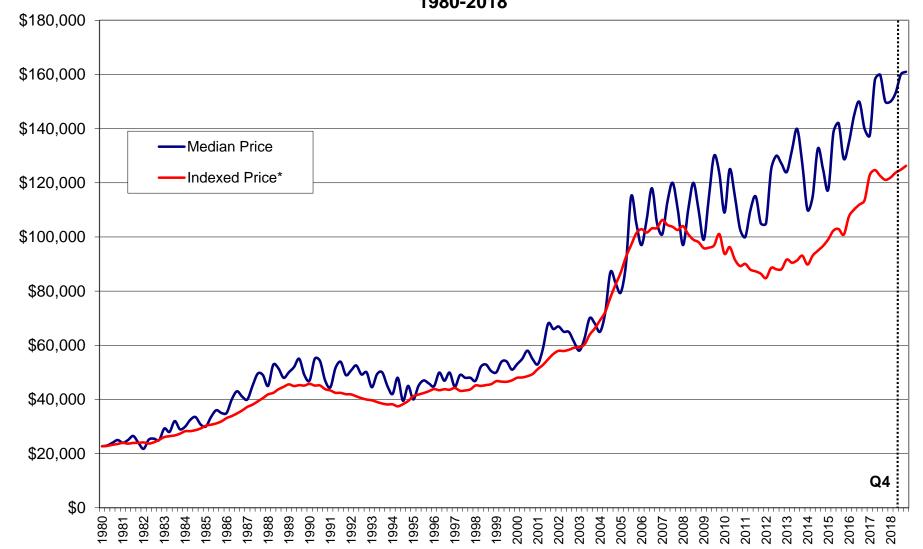


Philadelphia Submarket Boundaries





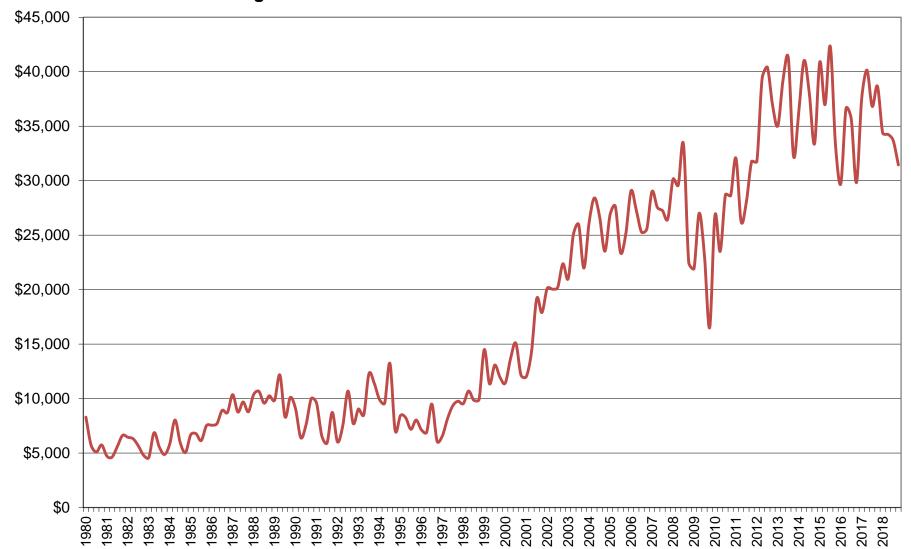
Median Philadelphia House Price v. Indexed Philadelphia House Price 1980-2018





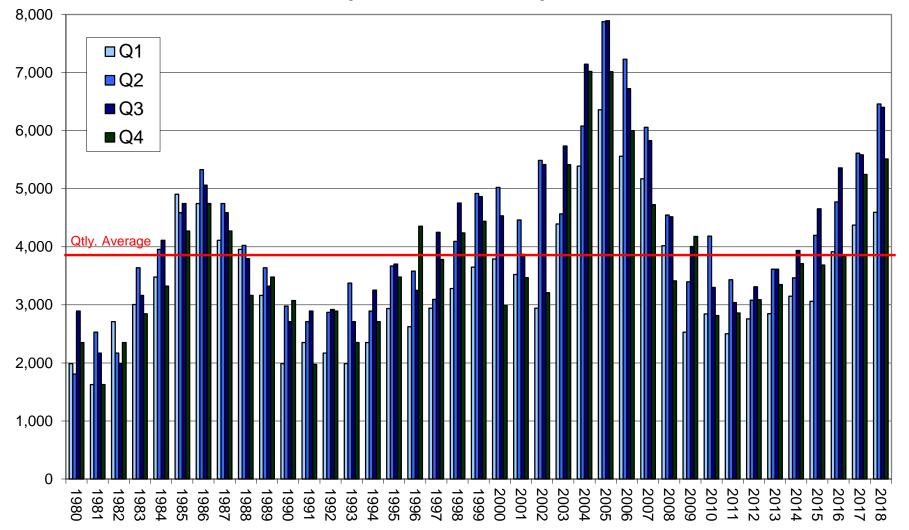
^{*} Empirically estimated by Kevin C. Gillen, PhD © 2019 Drexel University | Kevin.C.Gillen@Drexel.edu

Average House Price Minus Median House Price: 1980-2018



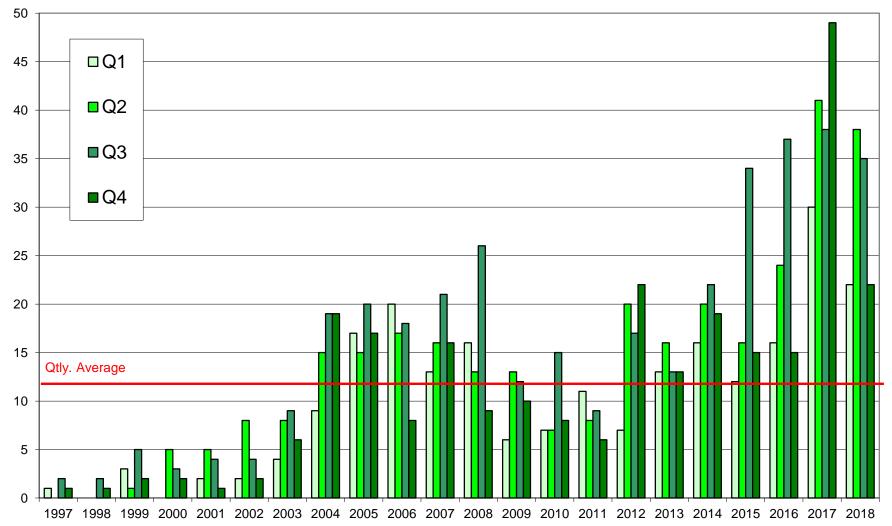


Number of Philadelphia House Sales* per Quarter: 1980-2018





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

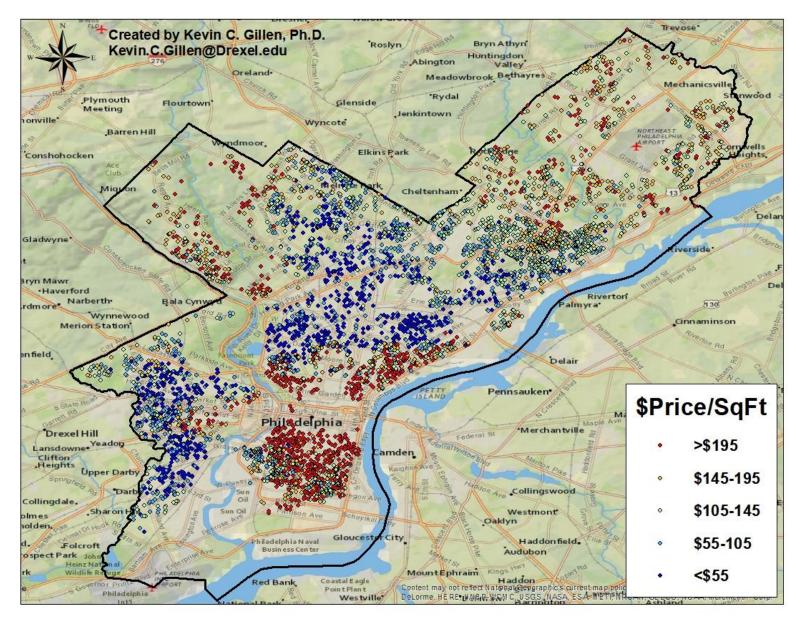




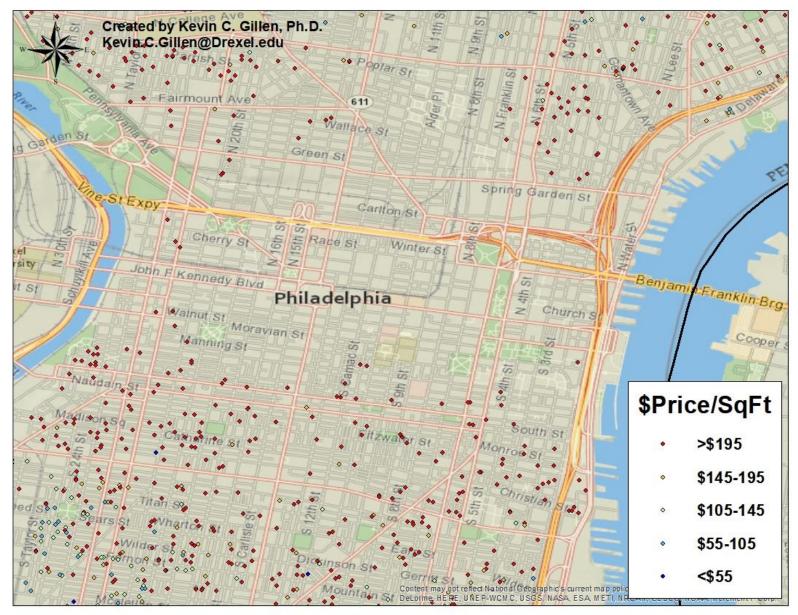




Philadelphia House Sales in 2018 Q4

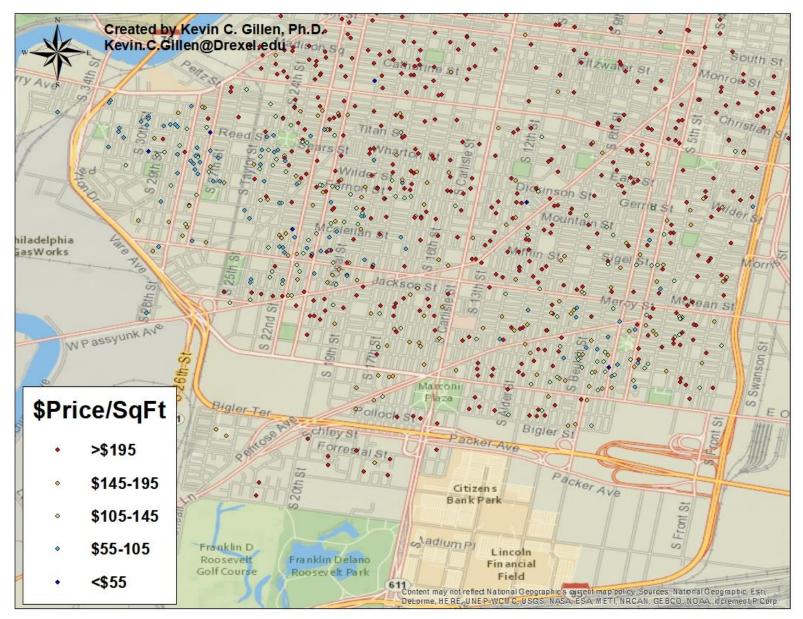


Center City House Sales in 2018 Q4

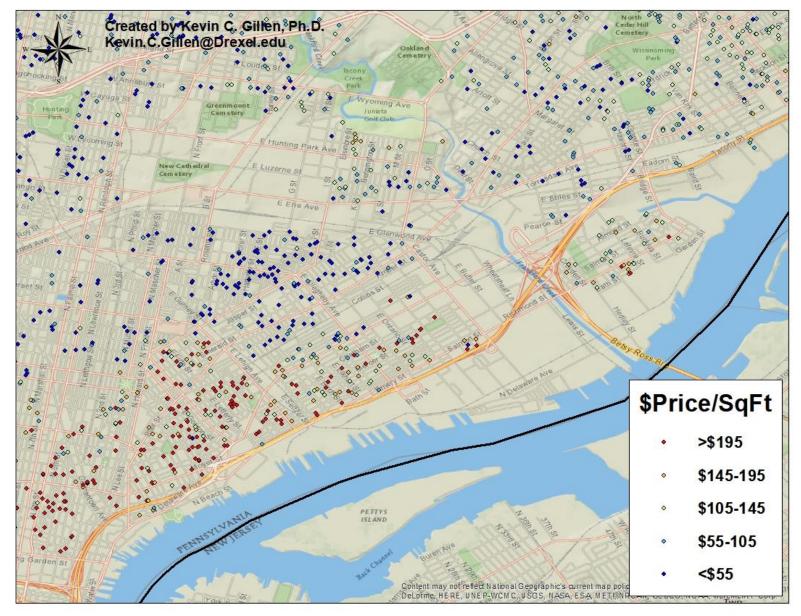




South Philadelphia House Sales in 2018 Q4

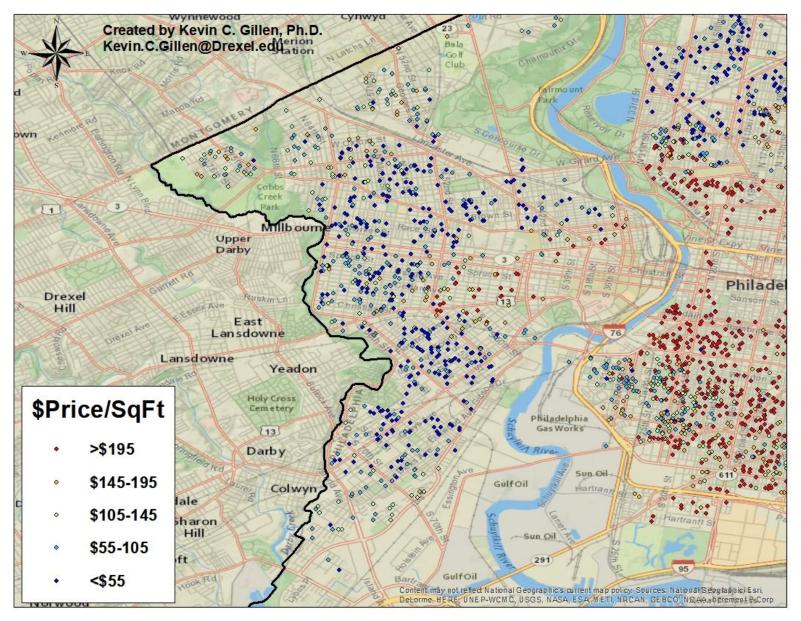


Kensington/Frankford House Sales in 2018 Q4

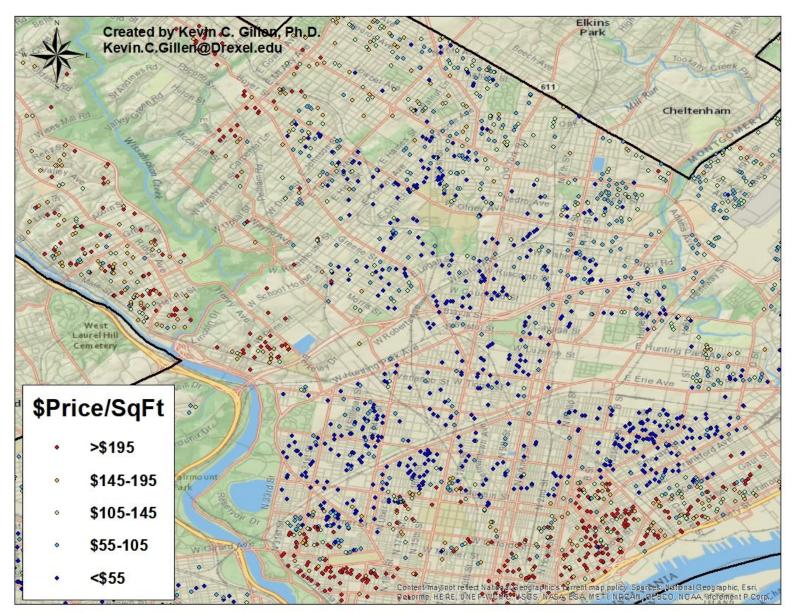




West/SW Philadelphia House Sales in 2018 Q4

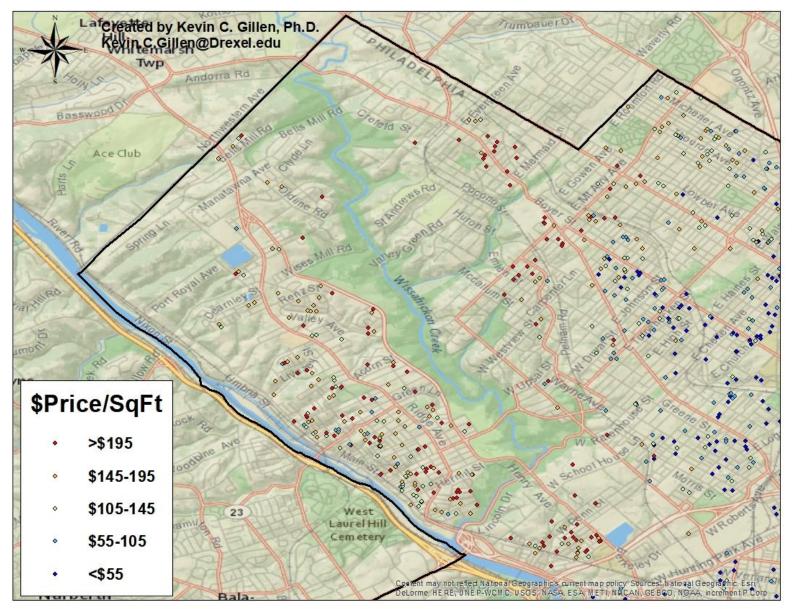


North Philadelphia House Sales in 2018 Q4

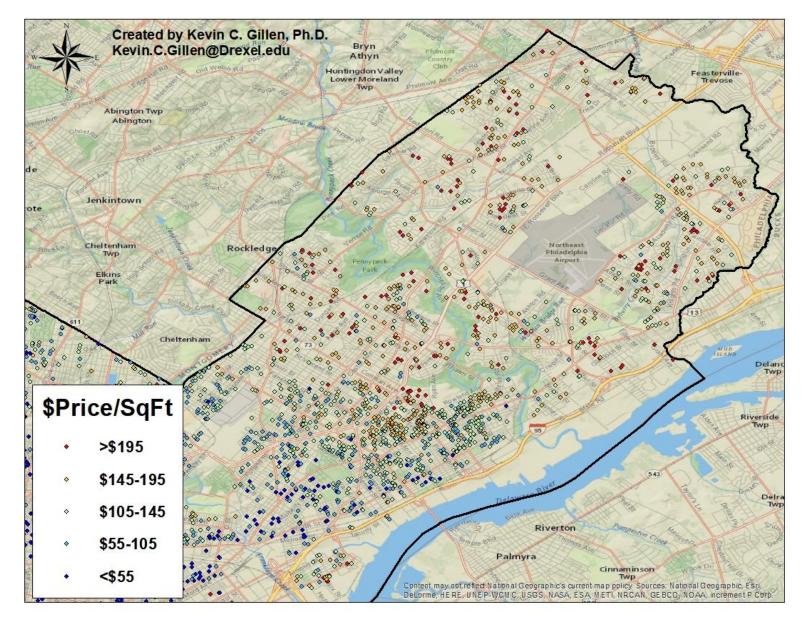




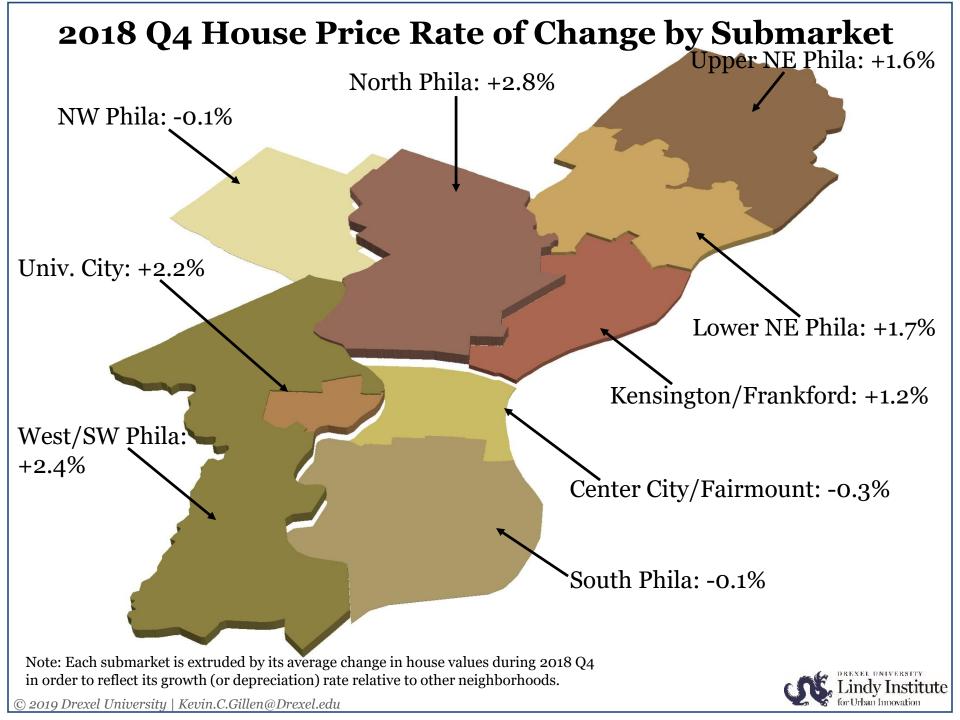
Northwest Philadelphia House Sales in 2018 Q4



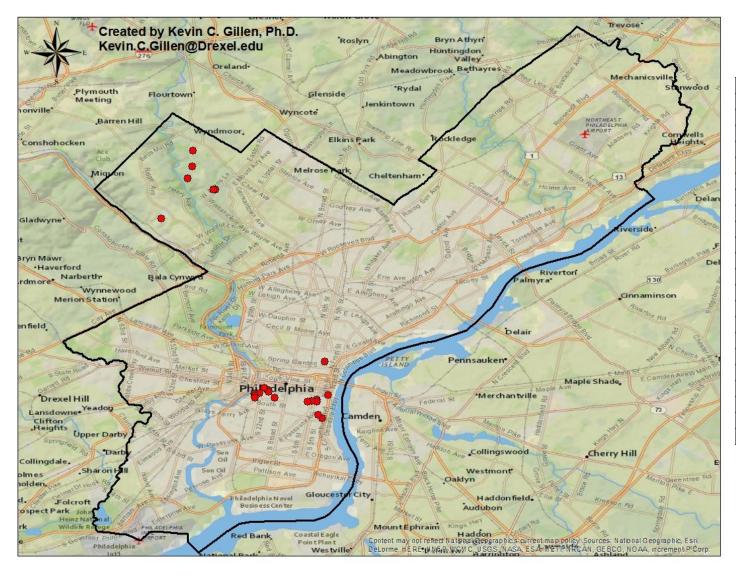
Northeast Philadelphia House Sales in 2018 Q4







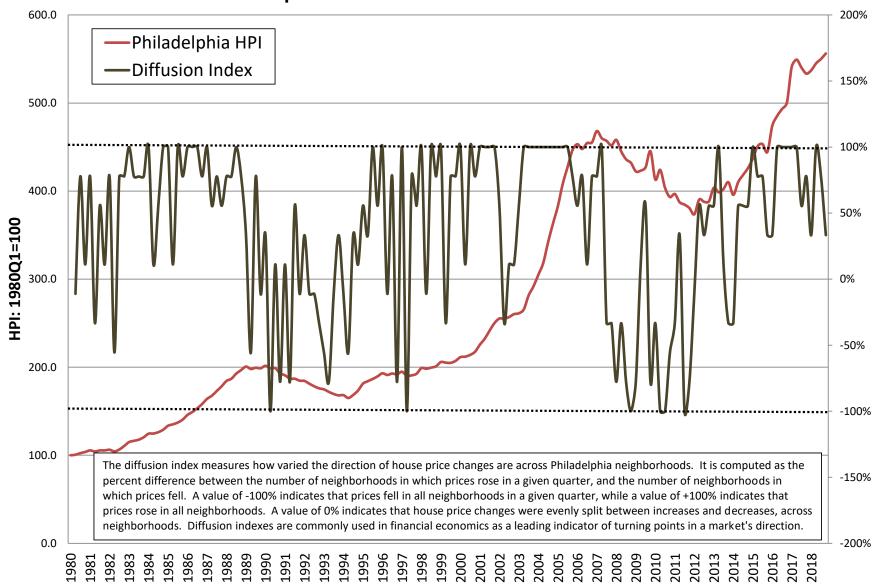
+\$1 Million Dollar House Sales in 2018 Q4



PRICE	ADDRESS
\$1,010,000	825 N LAWRENCE ST
\$1,075,000	831 S 3RD ST
\$1,080,000	358 CINNAMINSON ST
\$1,125,000	1725 ADDISON ST
\$1,145,000	7329 MC CALLUM ST
\$1,149,000	2414 NAUDAIN ST
\$1,150,000	239 REX AVE
\$1,165,000	1928 RITTENHOUSE SQ
\$1,225,000	416 SPRUCE ST
\$1,250,000	7 DRUIM MOIR CT
\$1,255,000	2410 WAVERLY ST
\$1,300,000	2215 DELANCEY PL
\$1,350,000	7304 ELBOW LN
\$1,375,000	541 PINE ST
\$1,500,000	706 PINE ST
\$1,600,000	2019 CHANCELLOR ST
\$1,625,000	137 SALTER ST
\$1,740,000	411 PINE ST
\$1,815,000	117 S VAN PELT ST
\$2,125,000	108 SANSOM ST
\$2,250,000	2503 PANAMA ST
\$3,200,000	609 SAINT ANDREWS RD

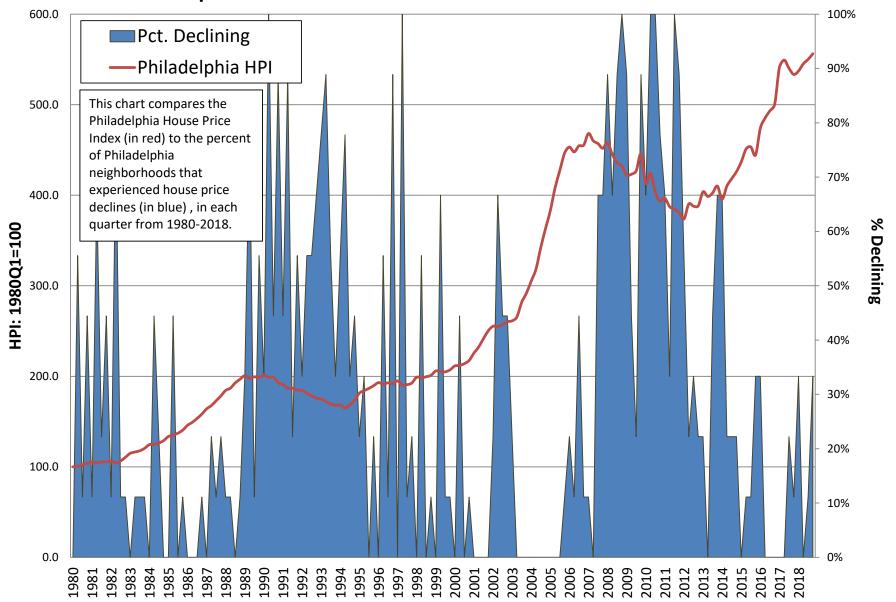


Philadelphia House Price Diffusion Index 1980-2018



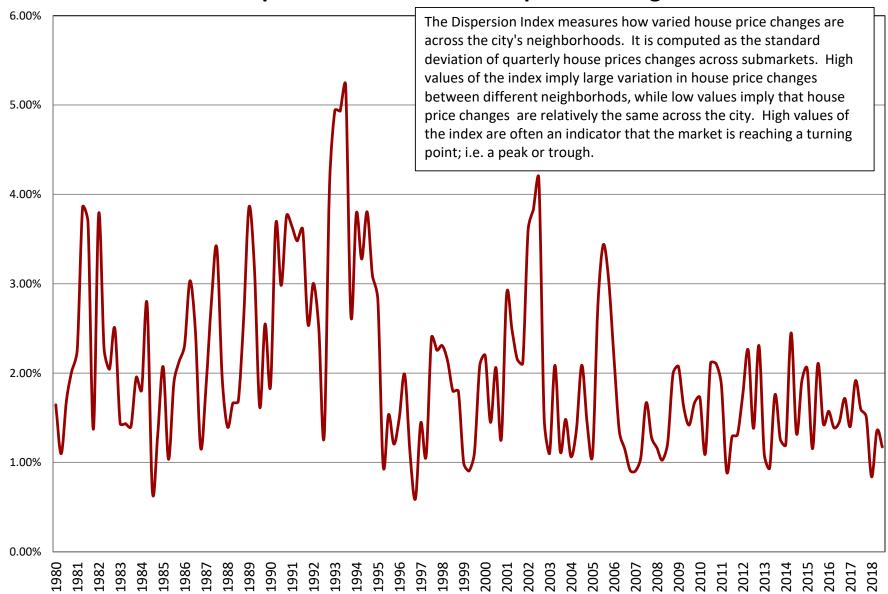


Philadelphia House Prices 1980-2018: Declines v. House Price Index

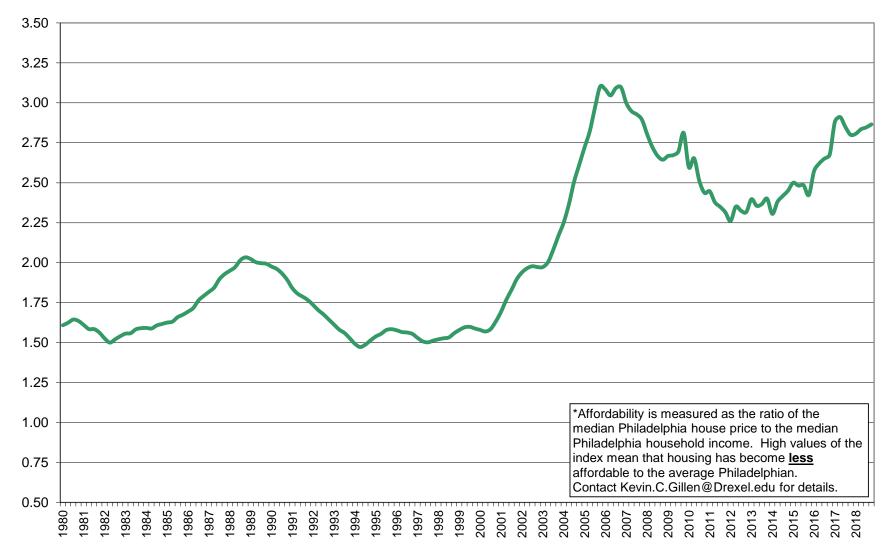




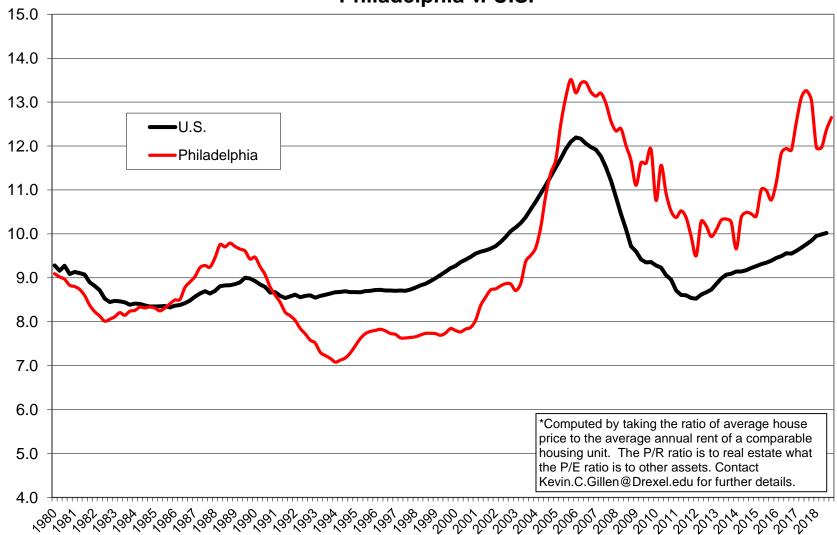
Dispersion Index of Philadelphia Housing



Philadelphia Housing Affordability* Index: 1980-2018

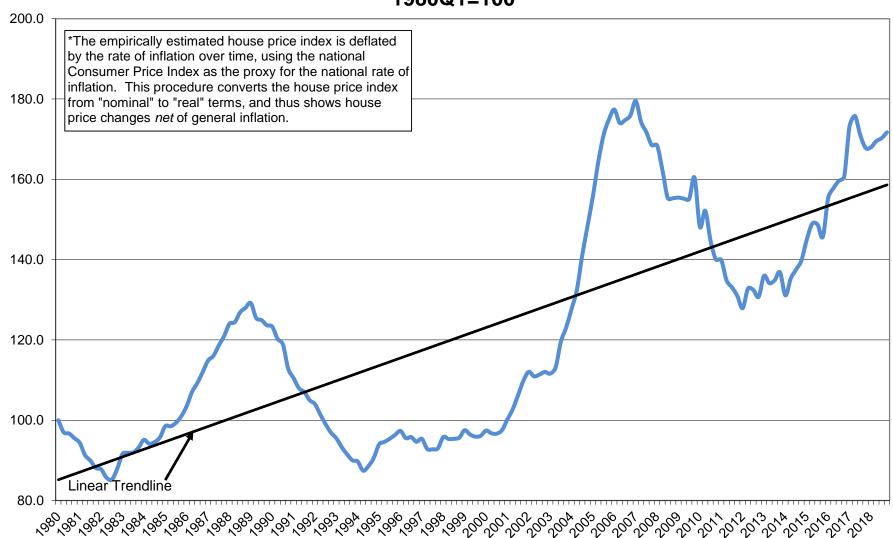


Average House Price-to-Rent Ratios*: 1980-2018 Philadelphia v. U.S.



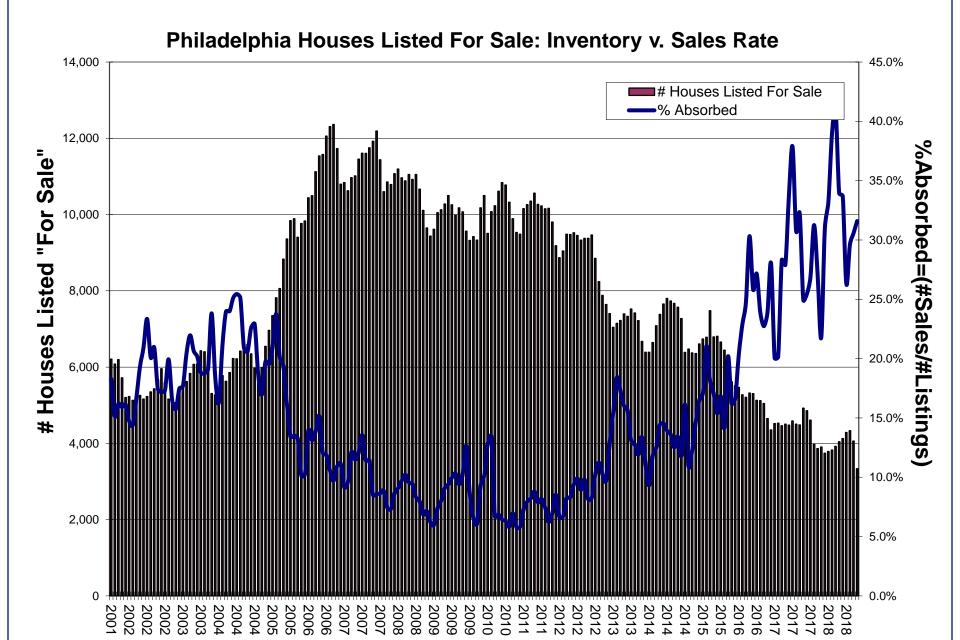


Inflation-Adjusted* Philadelphia House Price Index 1980-2018 1980Q1=100



Source: US Bureau of Labor Statistics

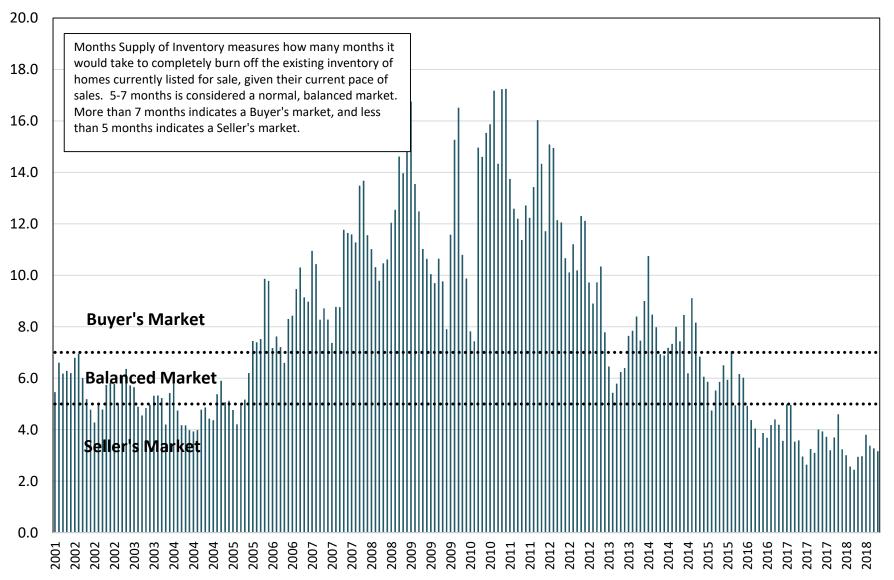




"%Absorbed" is defined as the percent of homes listed for sale in a given month that also sold in that same month.

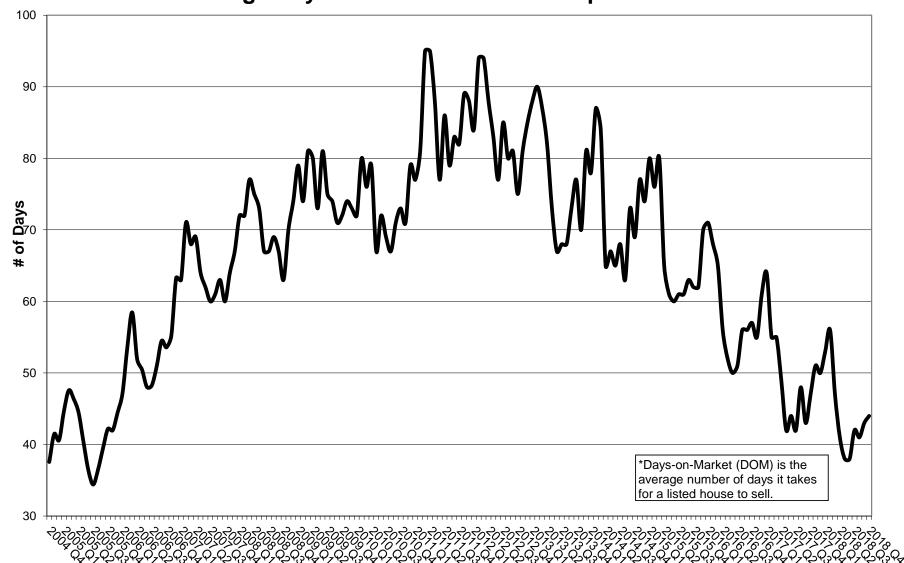
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Months Supply of Inventory in Philadelphia



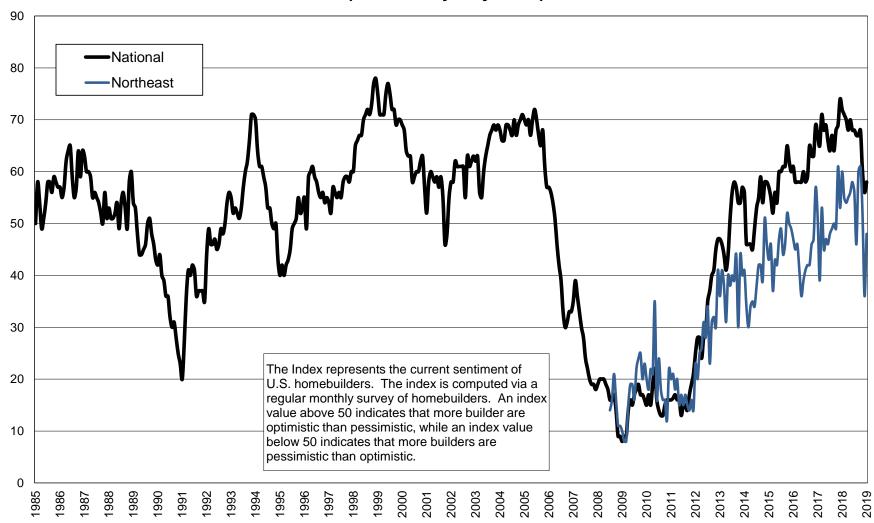


Average Days-on-Market* for Philadelphia Homes





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



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



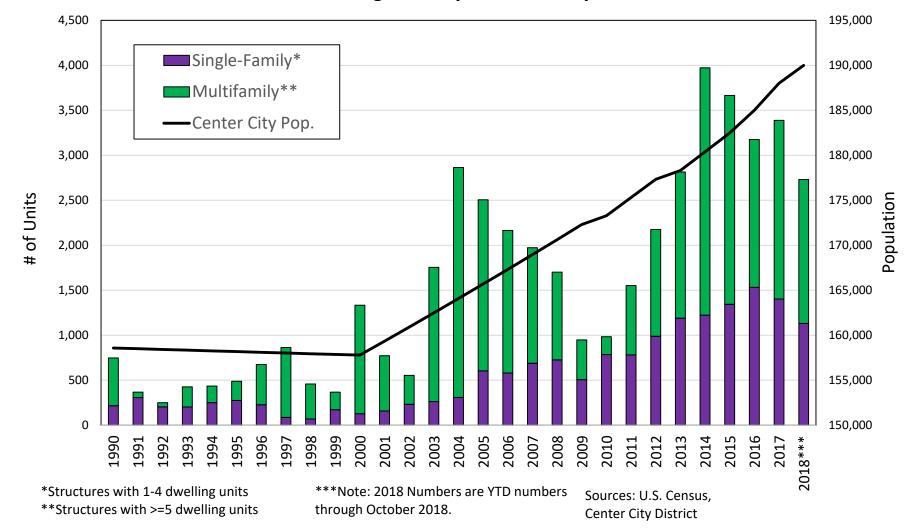
Philadelphia Stock Exchange Housing Sector Index: 2002-2019



Source: finance.yahoo.com



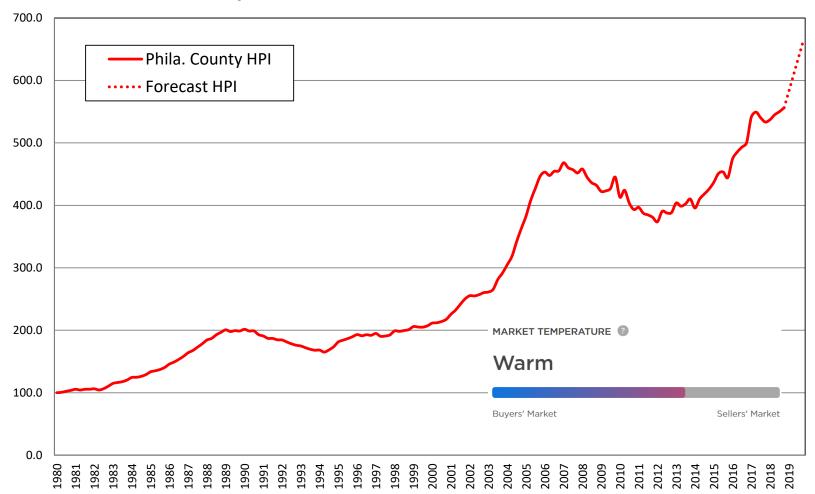
Building Permits Issued for Construction of Residential Units in Philadelphia 1990-2018: Single-Family v. Multifamily





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 17.3% over the course of the next twelve months. This is a significant upgrade from its previous forecast of 12.8% made three months ago. Curiously, Zillow also downgraded its rating of Philadelphia's housing market temperature from "Hot" to "Warm" this past month. It had also downgraded the overall level of the market's hotness three months ago, although it kept its "Hot" status.

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