PHILADELPHIA HOUSE PRICE INDICES

August 23, 2019



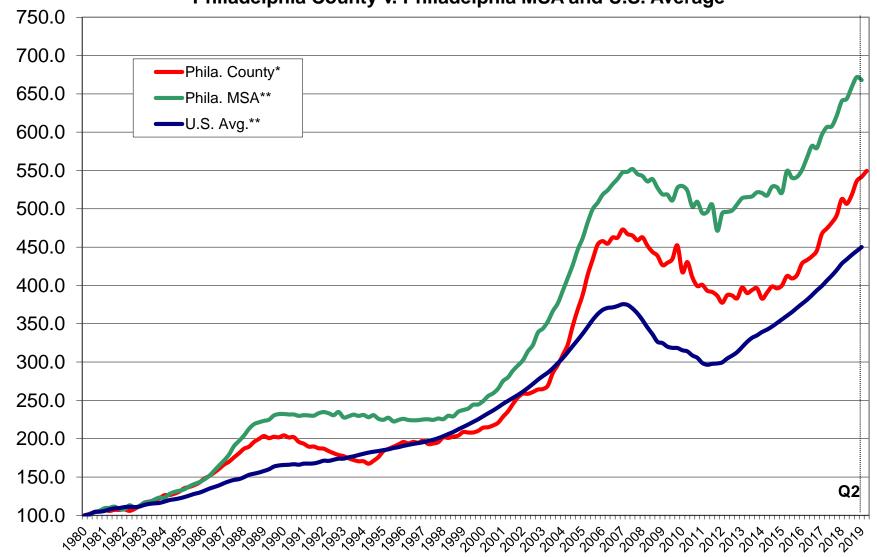
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House Price Indices 1980-2019: 1980Q1=100 Philadelphia County v. Philadelphia MSA and U.S. Average



^{*} 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

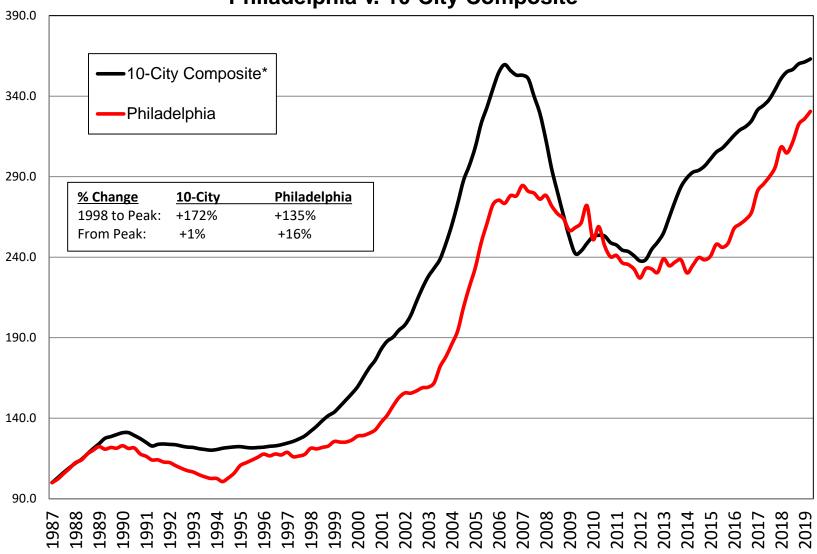
Period	Philadelphia County*	Philadelphia MSA**	U.S.A.**
39-Year	449.5%	568.0%	350.0%
10-Year	27.9%	28. 7%	38.6%
1-Year	8.5%	4.3%	5.1 %
1-Quarter	1.4%	-0.6%	1.1%

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



^{**}Source: U.S. Federal Housing Finance Agency (FHFA). These numbers are through 2019Q1 only. "MSA"="Metropolitan Statistical Area", which is the entire 10-county region.

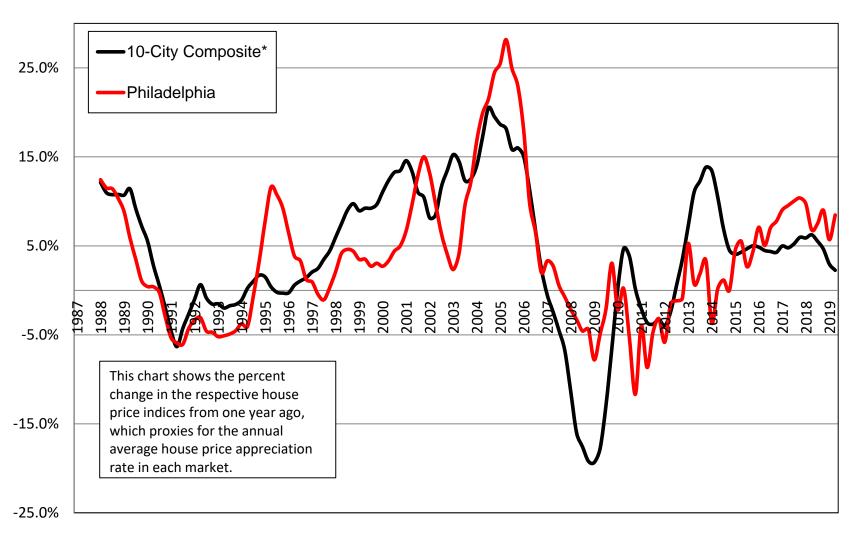
House Price Appreciation 1987-2019: Philadelphia v. 10-City Composite



^{*}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.



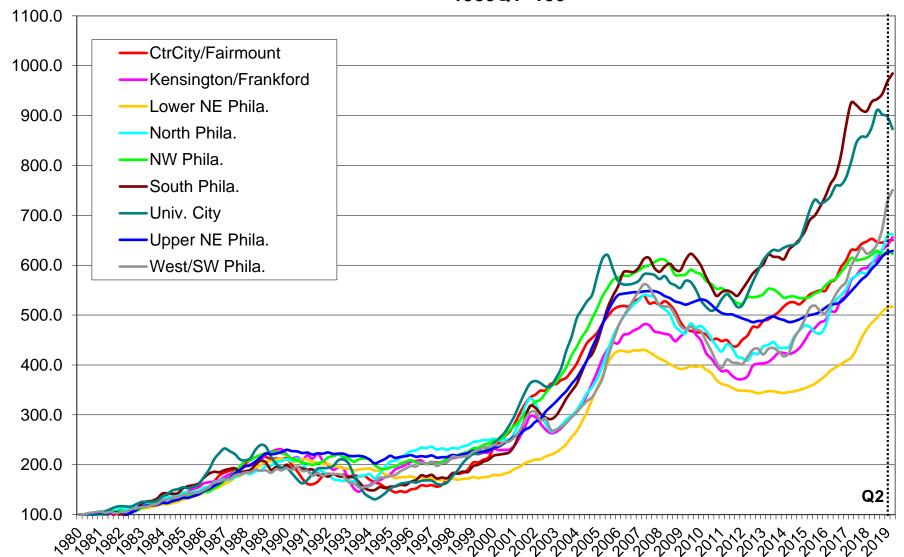
YoY House Price Change (%) 1987-2019: Philadelphia v. 10-City Composite



^{*}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: 1980-2019 1980Q1=100



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





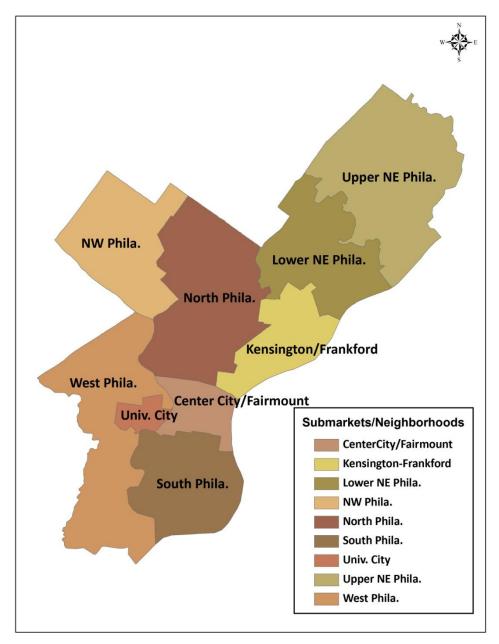
Philadelphia House Price Appreciation Rates by Submarket

Period	Center City/ Fairmount	Kensington /Frankford	Lower NE Phila.	North Phila.	NW Phila.	South Phila.	Univ. City	Upper NE Phila.	West/ SW Phila.
39-year	550.1%	556.0%	416.9%	562.2%	522.8%	884.5%	773.0%	528. 7%	650.7%
10-year	37.5%	40.8%	31.4%	43.1%	7 .2 %	61.4%	53.6%	20.7%	59.1%
1-Year	-0.4%	8.5%	6.6%	10.0%	0.2%	6.1%	-0.5%	6.0%	19.4%
1-Quarter	0.1%	2.5%	0.3%	0.4%	-0.9%	1.7%	-2.8%	0.5%	3.2%

This table gives the total % change in average house values by submarket, through 2019 Q1, from different starting points in time.

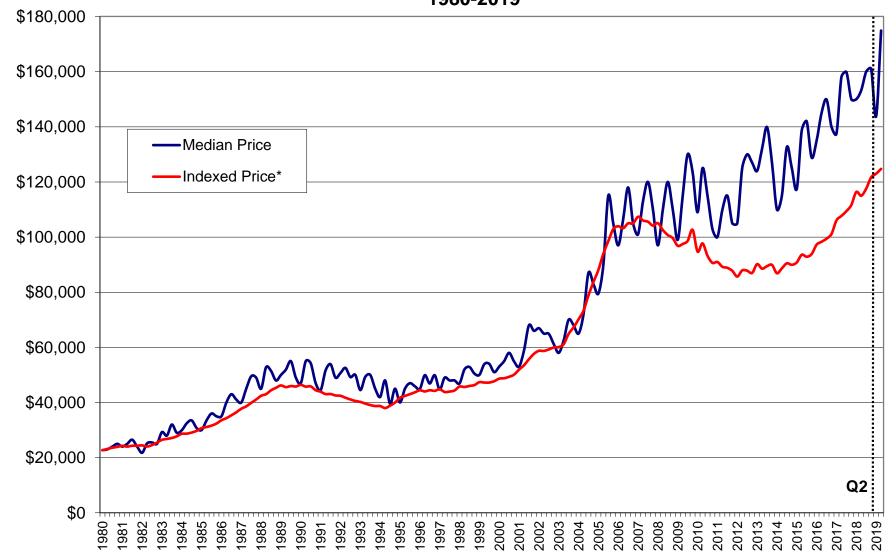


Philadelphia Submarket Boundaries



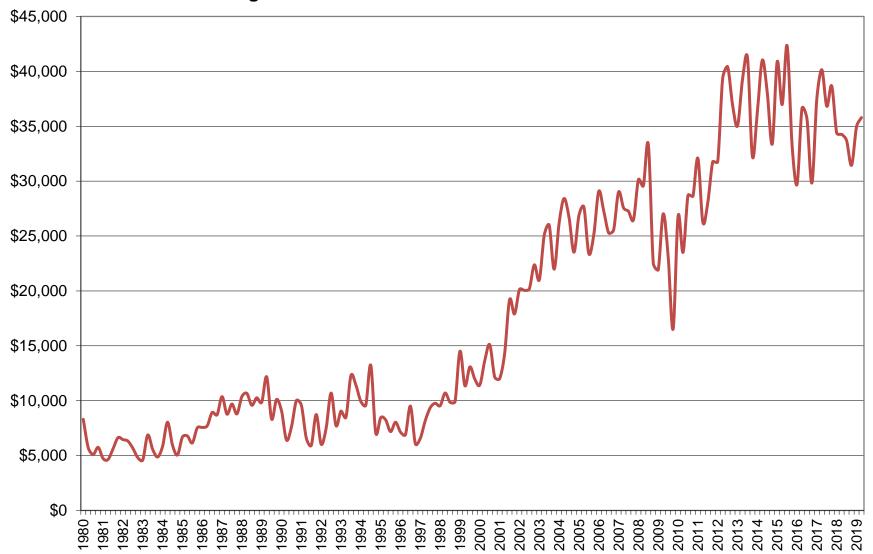


Median Philadelphia House Price v. Indexed Philadelphia House Price 1980-2019

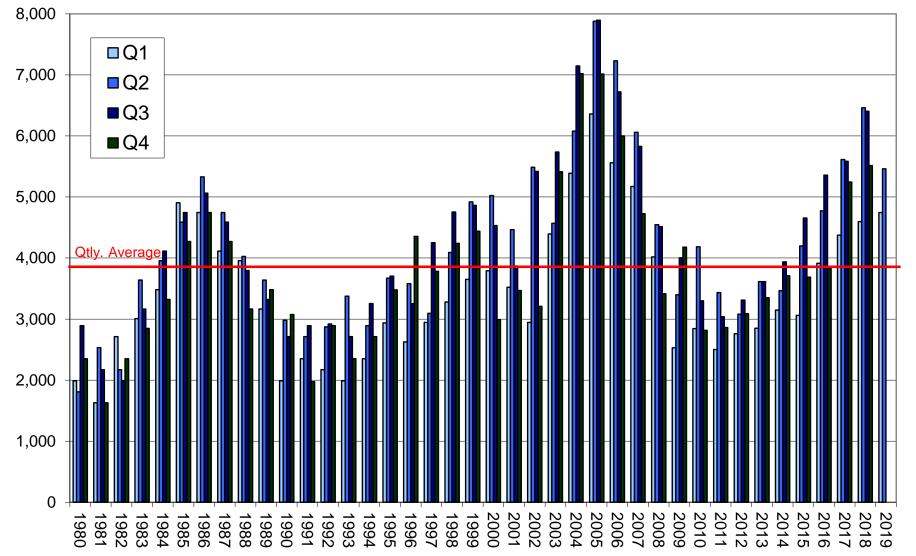




Average House Price Minus Median House Price: 1980-2019

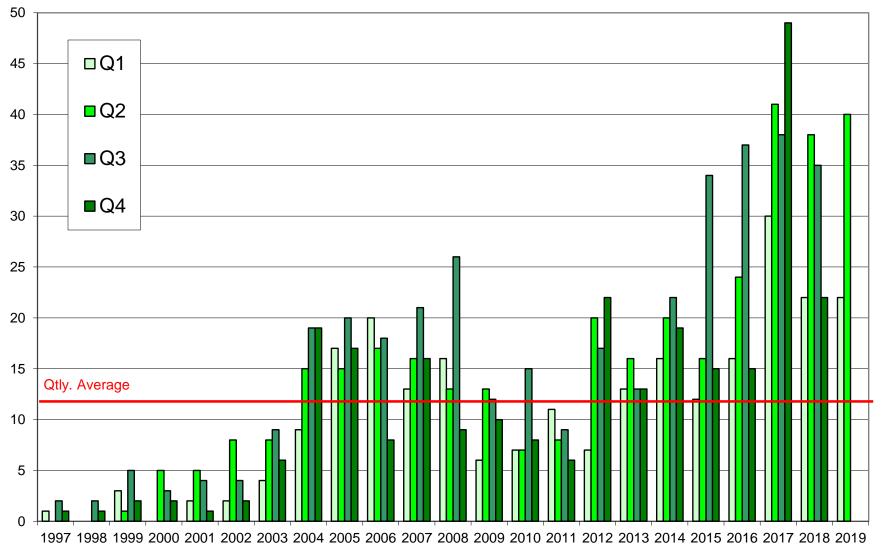


Number of Philadelphia House Sales* per Quarter: 1980-2019





Number of Philadelphia House Sales* per Quarter with Price>=\$1 Million: 1997-2019

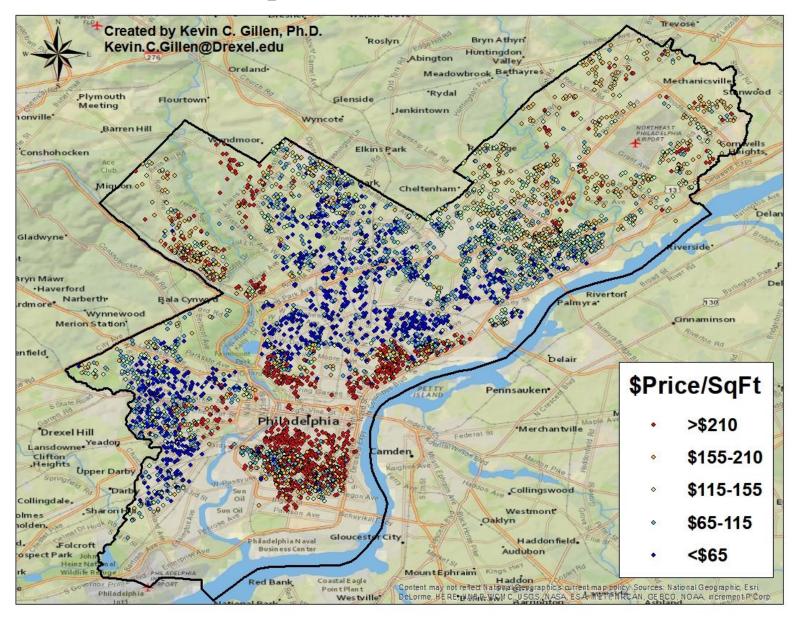








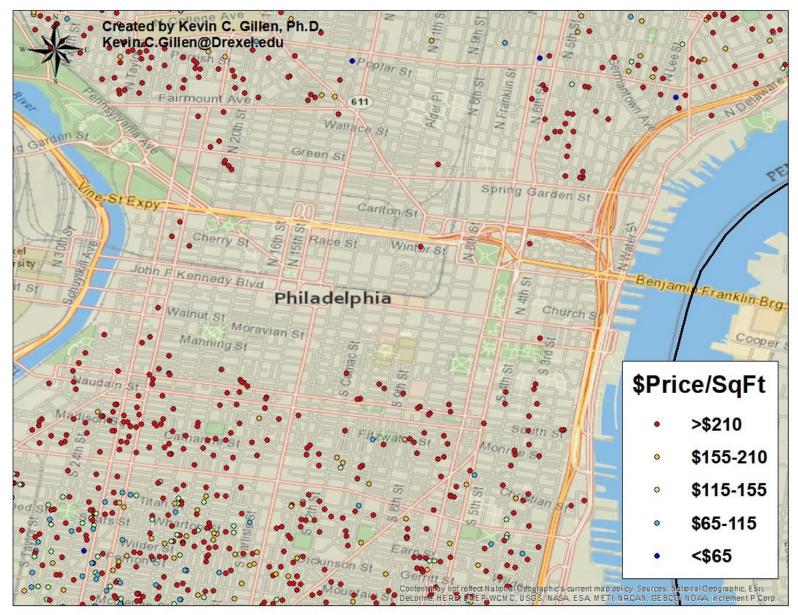
Philadelphia House Sales in 2019 Q2



Note: Sales are color-coded by the quintiles of the distribution of \$Price/SqFt. Hence, each of the five categories covers exactly 20% of all sales.

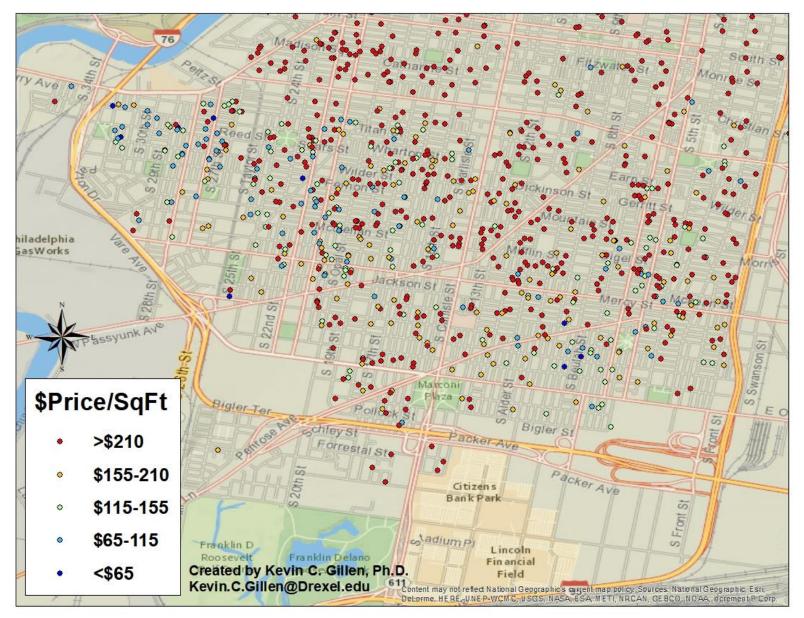


Center City House Sales in 2019 Q2

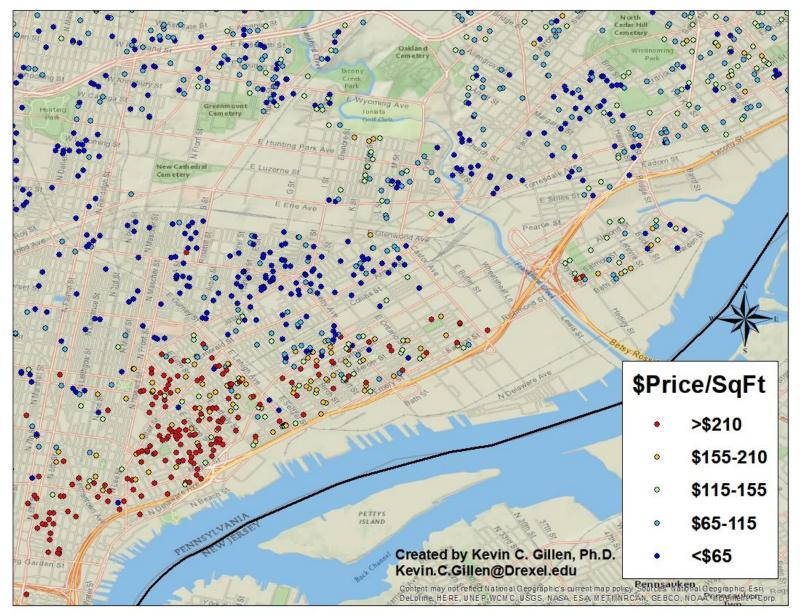




South Philadelphia House Sales in 2019 Q2

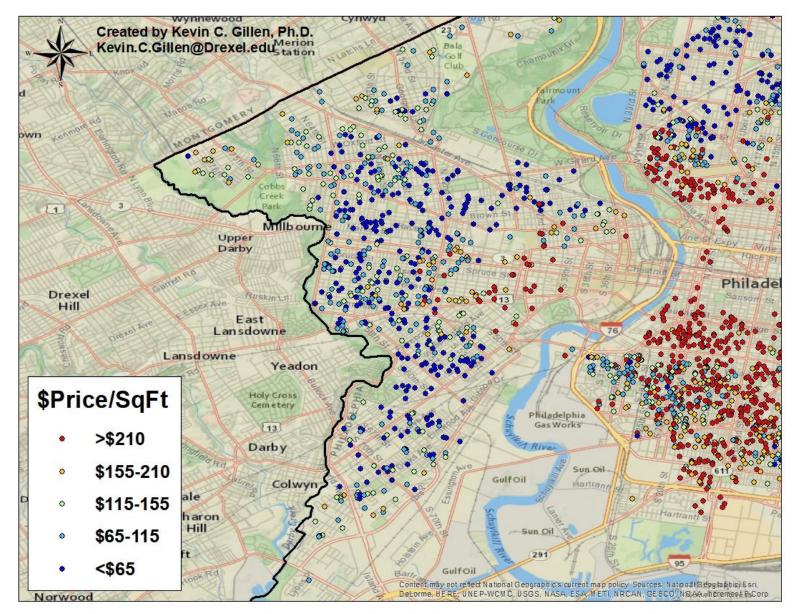


Kensington/Frankford House Sales in 2019 Q2



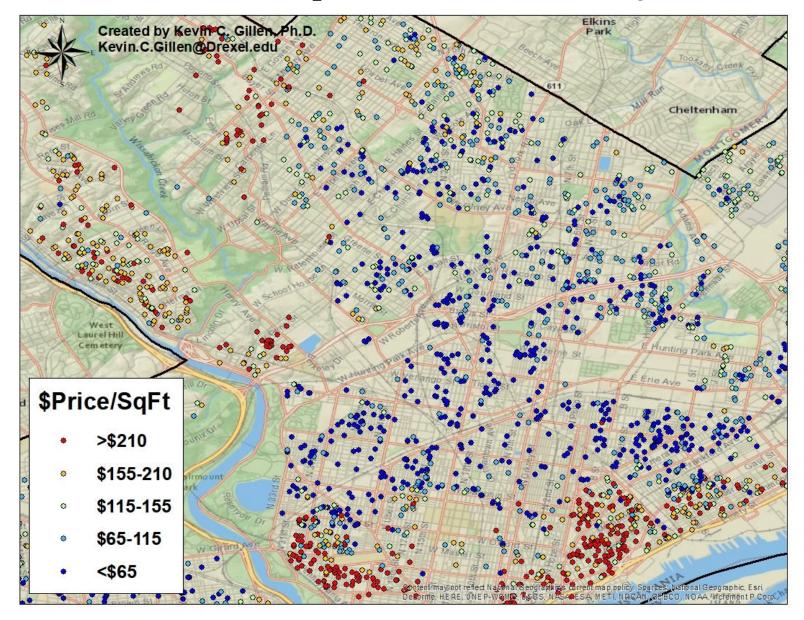


West/Southwest Philadelphia House Sales in 2019 Q2



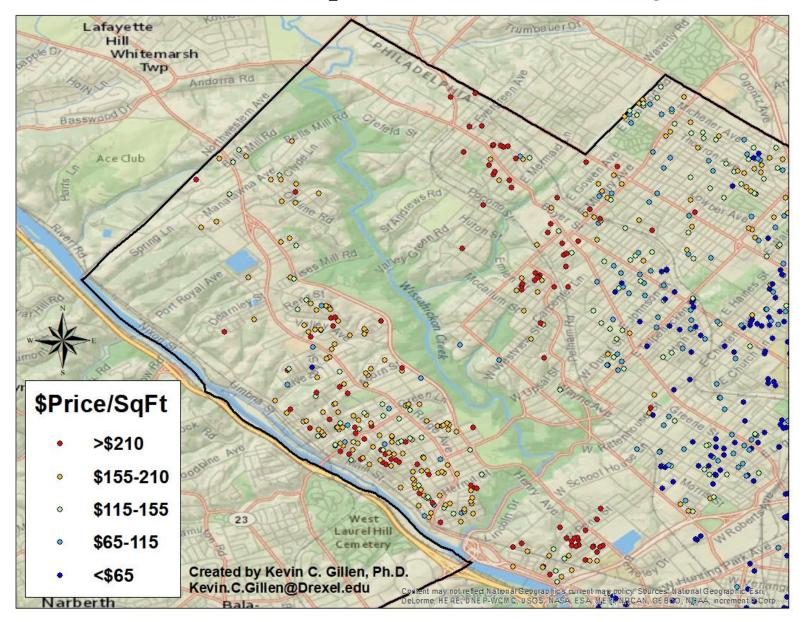


North Philadelphia House Sales in 2019 Q2



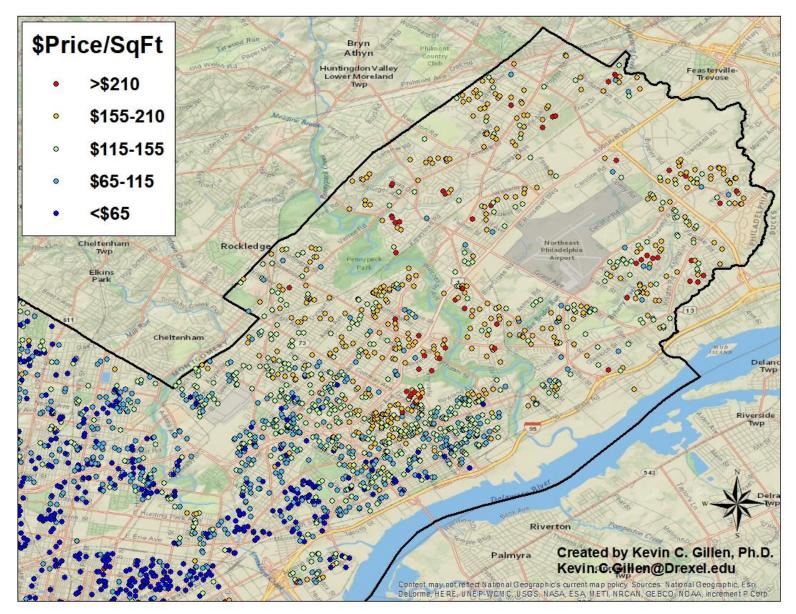


Northwest Philadelphia House Sales in 2019 Q2

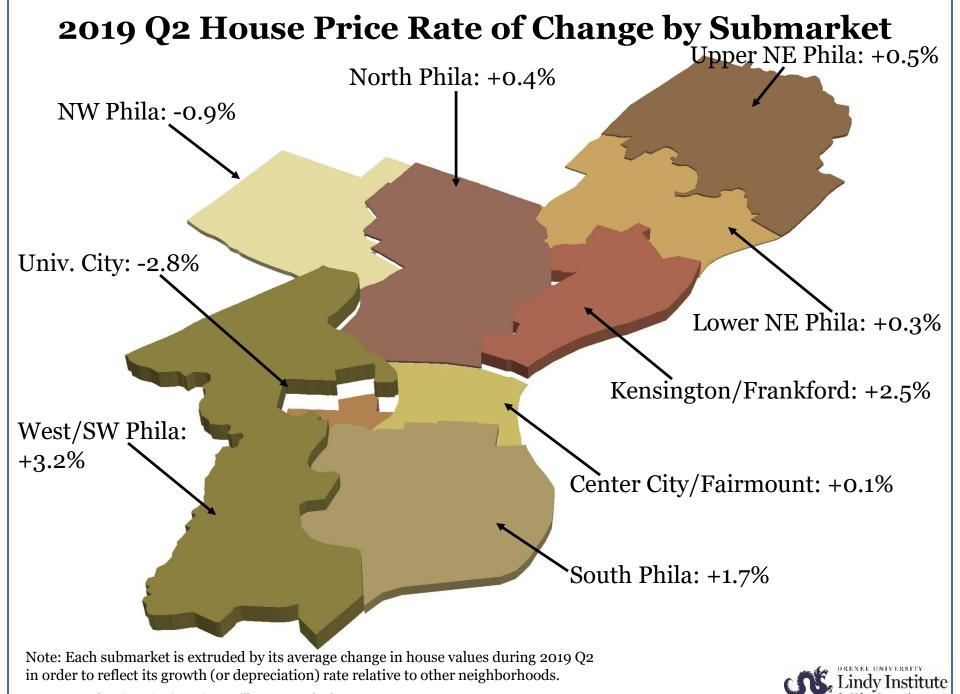




Northeast Philadelphia House Sales in 2019 Q2

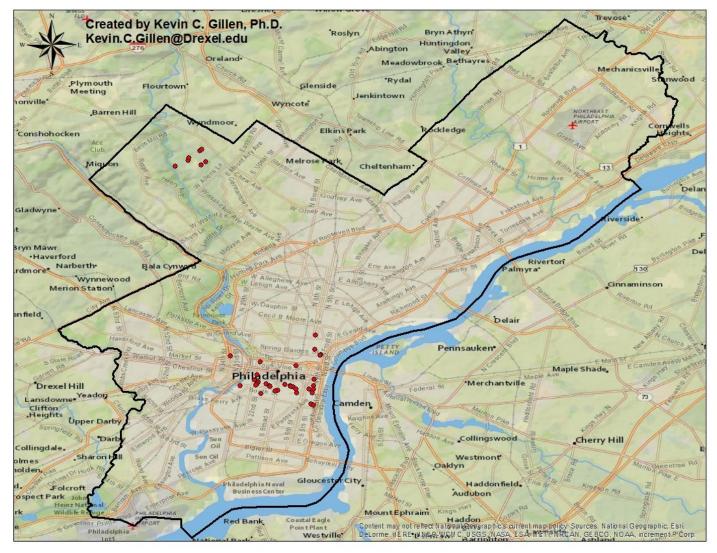






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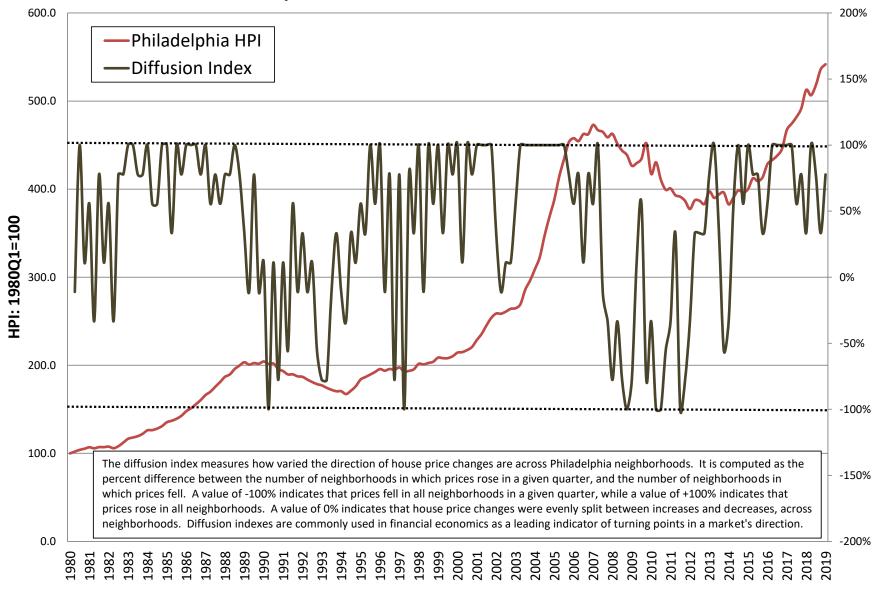
+\$1 Million Dollar House Sales in 2019 Q2



PRICE	ADDRESS		
\$1,000,000	229 N 10TH ST		
\$1,080,000	618 S 27TH ST		
\$1,100,000	251 S 03RD ST		
\$1,100,000	808 ADDISON ST		
\$1,100,000	825 N ORKNEY ST		
\$1,100,000	2108 SANSOM ST		
	2129 SPRUCE ST		
\$1,100,000	3300 BARING ST		
\$1,105,000	611 N 03RD ST		
\$1,150,000	42 S 03RD ST		
\$1,150,000	1630 WAVERLY ST		
\$1,155,000	214 CHRISTIAN ST		
\$1,170,000	226 GASKILL ST		
\$1,175,000	1617 LOMBARD ST		
\$1,175,000	8030 NAVAJO ST		
\$1,175,000	1329 N RANDOLPH ST		
\$1,200,000	8100 LINCOLN DR		
\$1,250,000	409 S 03RD ST		
\$1,295,000	2054 LOMBARD ST		
	1424 BAINBRIDGE ST		
\$1,371,275			
\$1,390,000	432 W MORELAND AVE		
\$1,395,000	741 BAINBRIDGE ST		
\$1,412,500	1338 KATER ST		
	2040 PINE ST		
	813 S 19TH ST		
	620 N BODINE ST		
\$1,595,625	604 W HARTWELL LN		
	2106 SPRING ST		
	137 SALTER ST		
	340 S 04TH ST		
	314 S 10TH ST		
\$1,920,000	231 DELANCEY ST		
\$2,065,000	339 S 18TH ST		
	905 PINE ST		
\$2,175,000	1013 CLINTON ST		
\$2,175,000	7700 SAINT MART LN		
	601 W HARTWELL LN		
\$2,488,000	1204 SPRUCE ST		
	2017 DELANCEY PL		

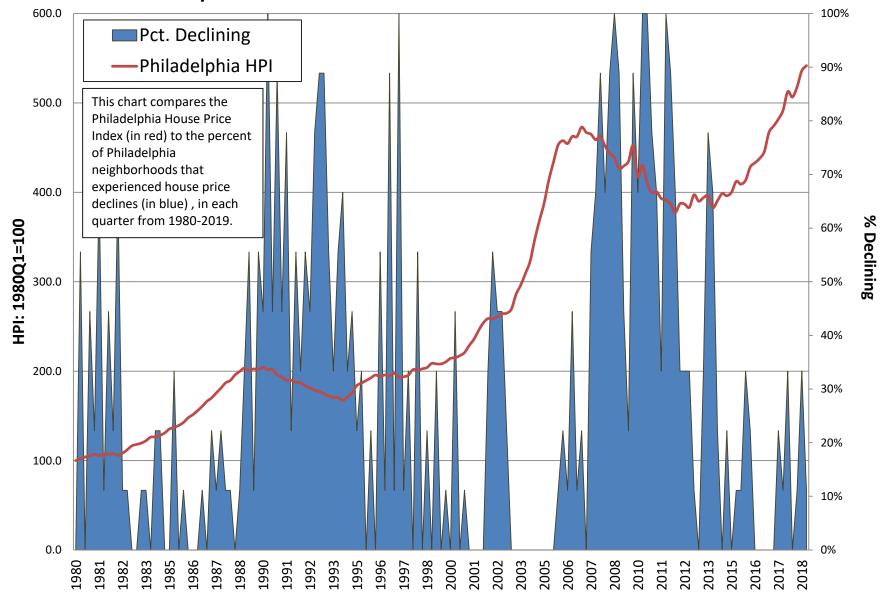


Philadelphia House Price Diffusion Index 1980-2019



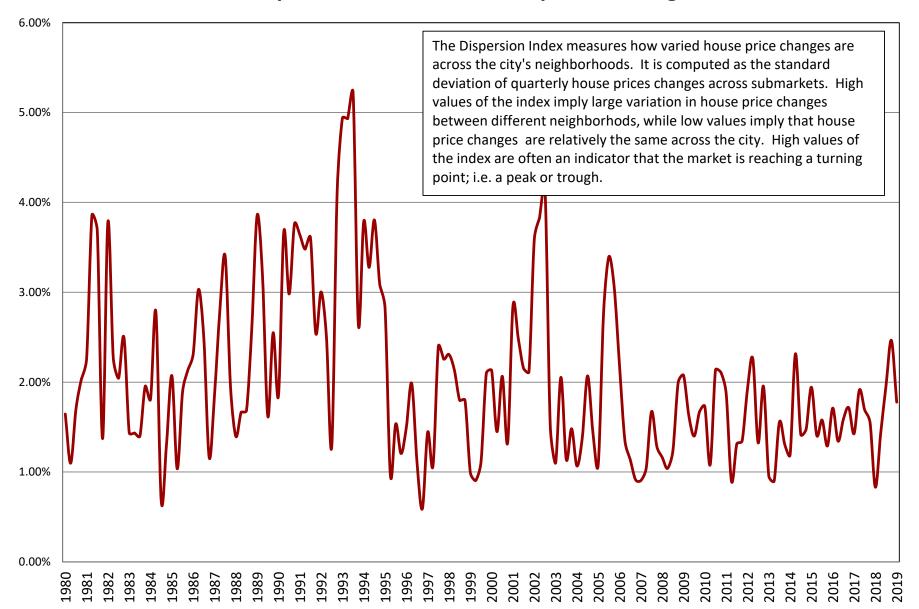


Philadelphia House Prices 1980-2019: Declines v. House Price Index

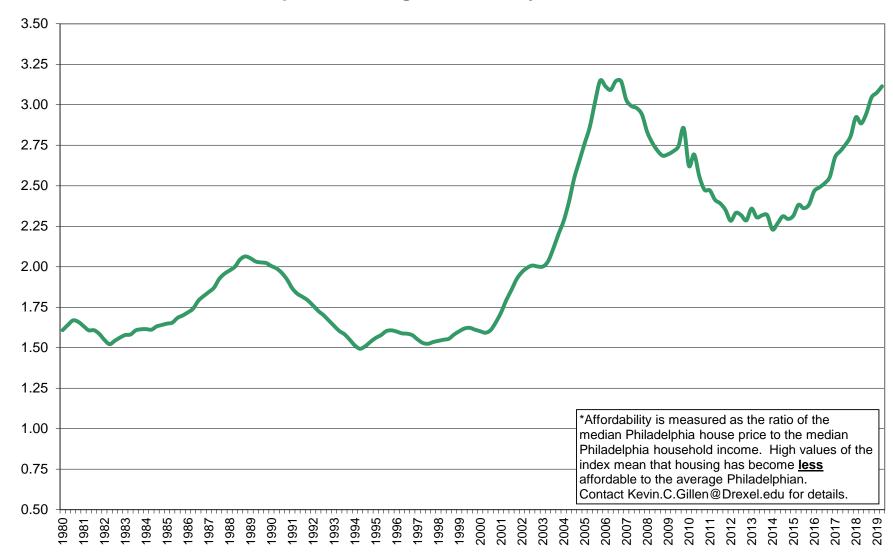




Dispersion Index of Philadelphia Housing

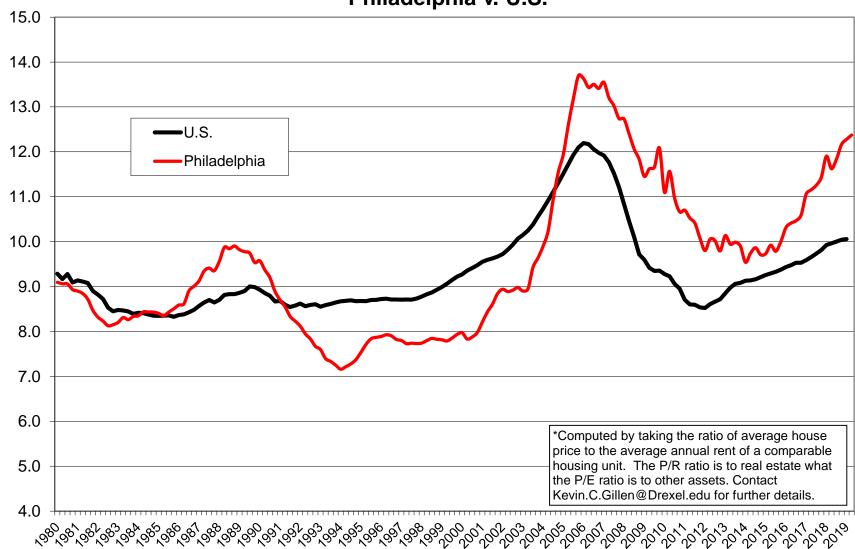


Philadelphia Housing Affordability* Index: 1980-2019



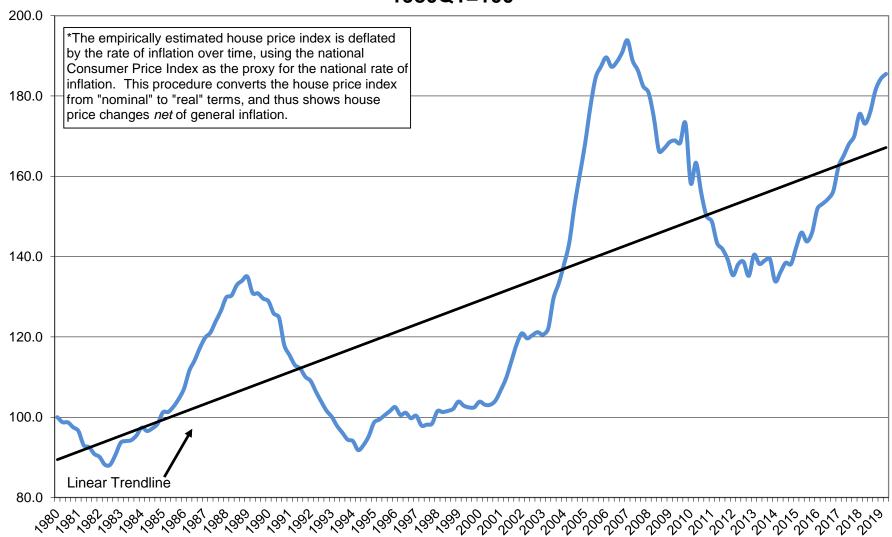


Average House Price-to-Rent Ratios*: 1980-2019 Philadelphia v. U.S.



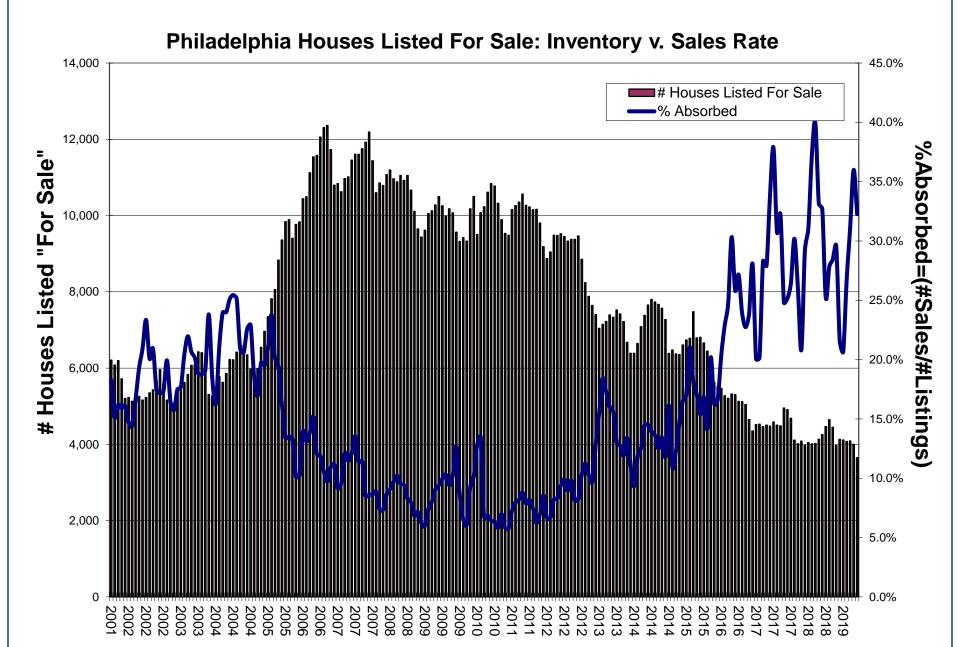


Inflation-Adjusted* Philadelphia House Price Index 1980-2019 1980Q1=100



Source: US Bureau of Labor Statistics

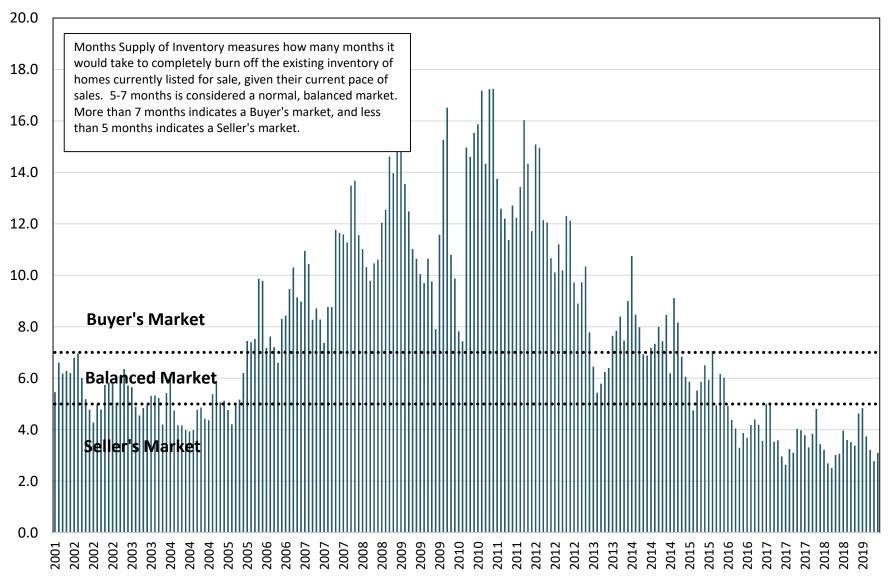




"%Absorbed" is defined as the percent of homes listed for sale in a given month that also sold in that same month.

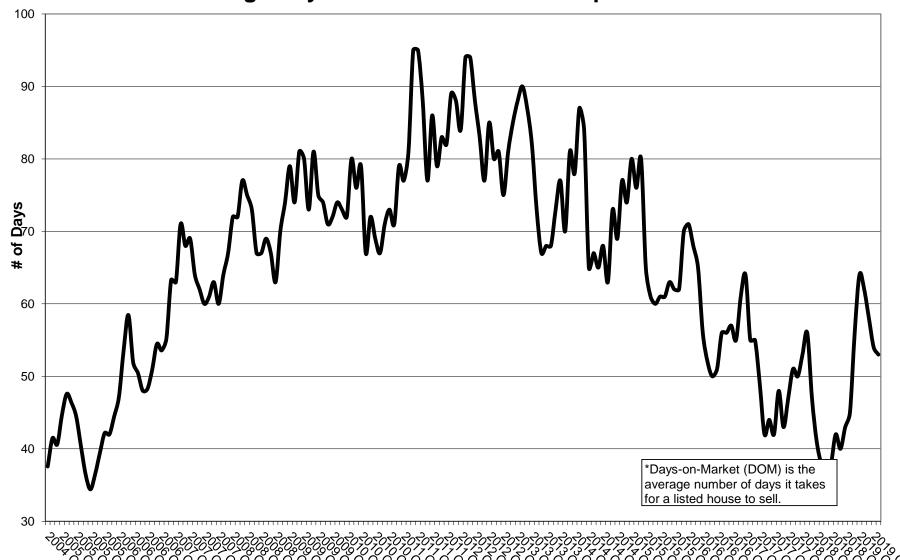


Months Supply of Inventory in Philadelphia



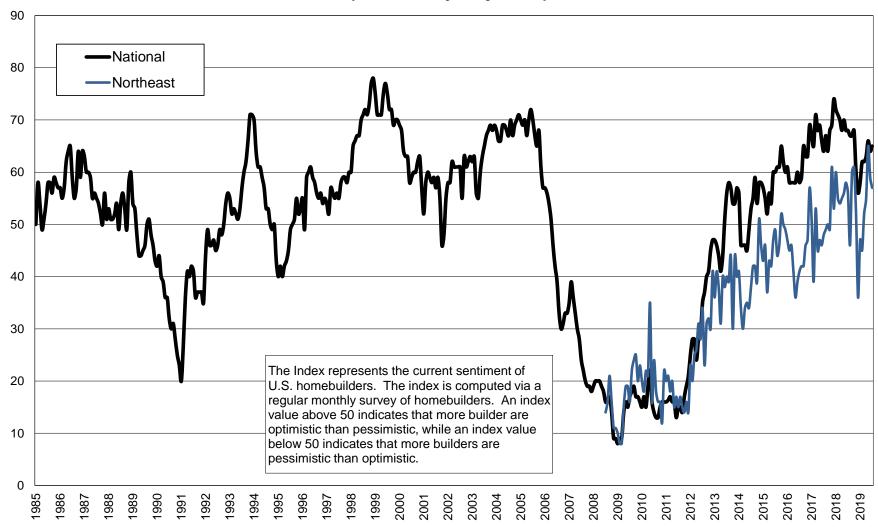


Average Days-on-Market* for Philadelphia Homes





Index of Homebuilder Sentiment: 1985-2019 (Seasonally Adjusted)



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



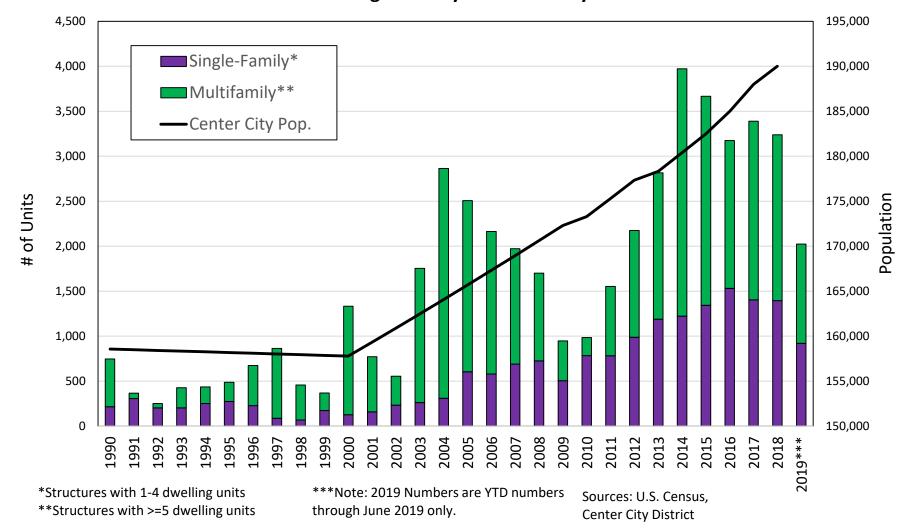
Philadelphia Stock Exchange Housing Sector Index: 2002-2019



Source: finance.yahoo.com



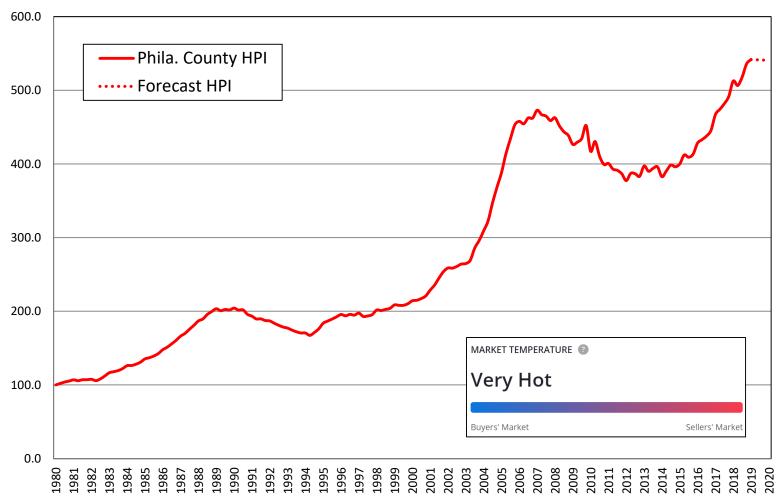
Building Permits Issued for Construction of Residential Units in Philadelphia 1990-2019: Single-Family v. Multifamily





Philadelphia House Price Index and 1-Year Forecast

Philadelphia House Price Index: Actual v. Forecast



Zillow's most recent forecast of Philadelphia house prices projects negative appreciation over the next 12 months. This is the first time during the current cycle that their forecast has turned negative. As recently as six months ago, Zillow was projecting a very bullish forecast of 17.3% price appreciation over the next 12 months. Curiously (and bizarrely), Zillow has also persisted in rating Philadelphia's housing market temperature as "Very Hot".

Source: http://www.zillow.com/philadelphia-pa/home-values/© 2019 Drexel University | Kevin.C.Gillen@Drexel.edu