PHILADELPHIA HOUSE PRICE INDICES

August 10, 2022



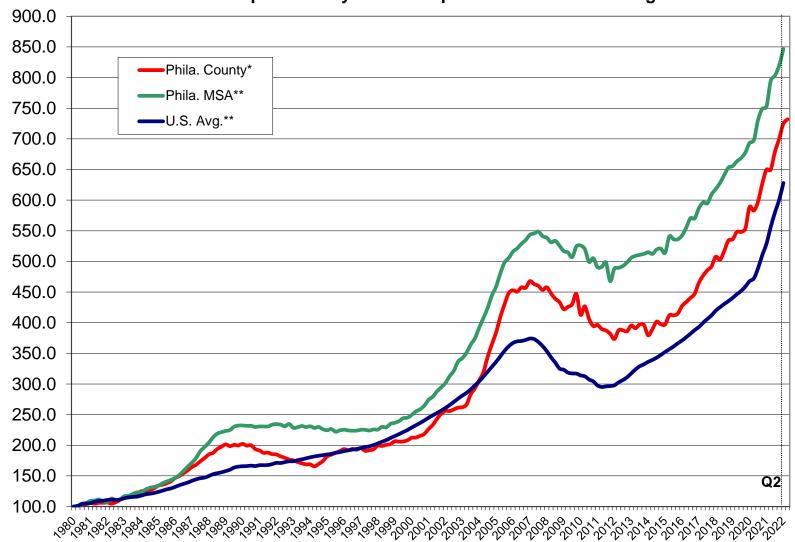
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House Price Indices 1980-2022: 1980Q1=100 Philadelphia County v. Philadelphia MSA and U.S. Average



^{*} 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 2022 Q1 only.

Total House Price Appreciation Rates by Geographic Market

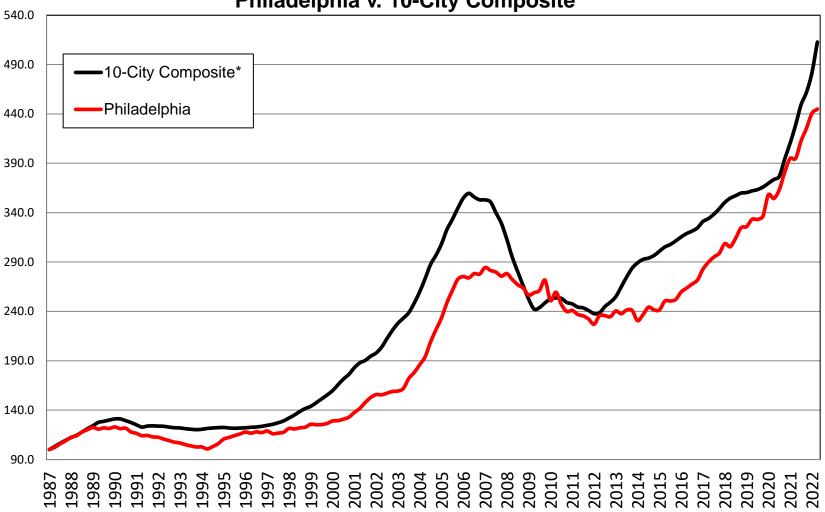
Period	Philadelphia County*	Philadelphia MSA**	U.S.A.**
42-Year	632.0%	7 46. 7%	528.1%
10-Year	88.9%	73.4%	110.9%
1-Year	12.7%	12.5%	18.7%
1-Quarter	1.0%	3.3%	4.6%

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



^{**}Source: U.S. Federal Housing Finance Agency (FHFA). These numbers are through 2022Q1 only. "MSA"="Metropolitan Statistical Area", which is the entire 10-county region.

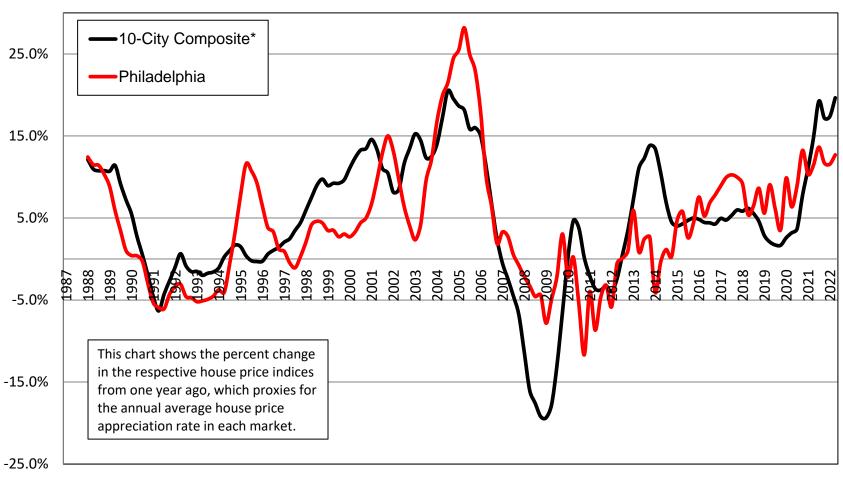
House Price Appreciation 1987-2022: Philadelphia v. 10-City Composite





^{*}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.

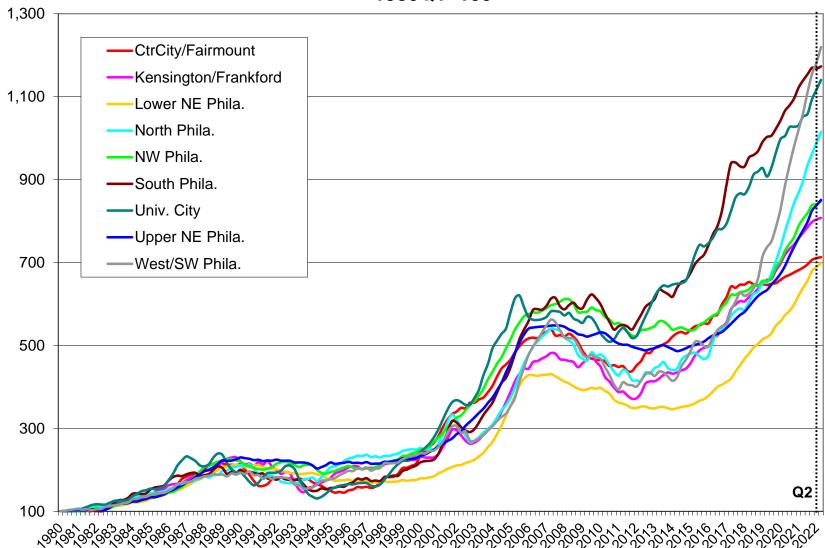
YoY House Price Change (%) 1987-2022: Philadelphia v. 10-City Composite





^{*}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.

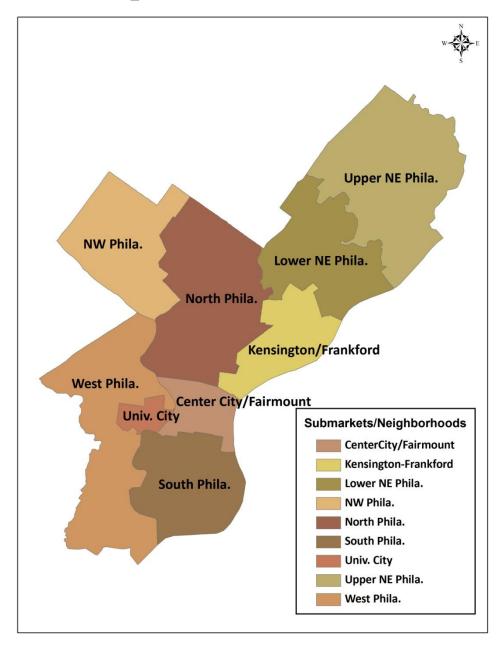
Philadelphia House Price Indices by Neighborhood: 1980-2022 1980Q1=100





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

Philadelphia Submarket Boundaries





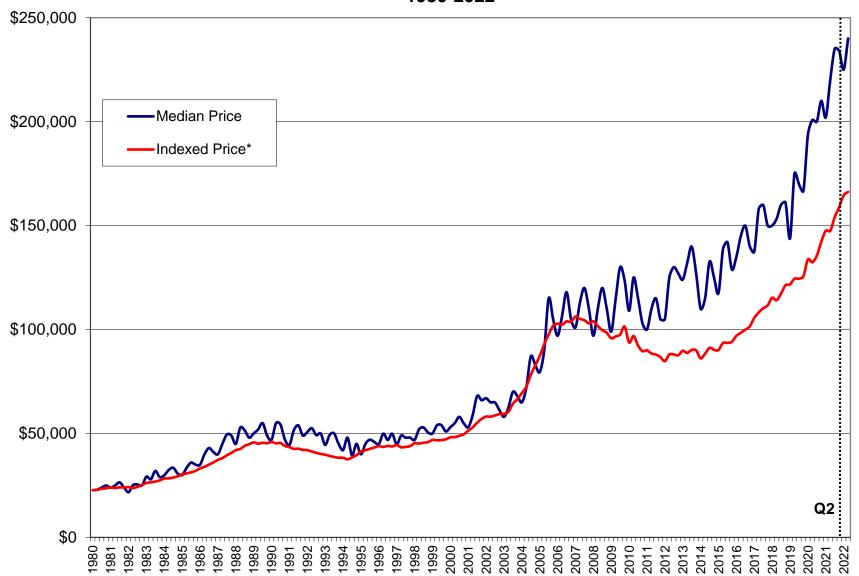
Philadelphia House Price Appreciation Rates by Submarket

Period	Center City/ Fairmount	Kensington /Frankford	Lower NE Phila.	North Phila.	NW Phila.	South Phila.	Univ. City	Upper NE Phila.	West/ SW Phila.
42-year	612.7%	707.5%	599.4%	915.2%	748.2%	1073.1%	1040.2%	750. 7%	1119.5%
10-year	54.2%	109.8%	98.4%	144.3%	58.0%	104.5%	108.7%	73.4%	193.9%
1-Year	3.7%	4.7%	9.5%	13.4%	5.3%	3.0%	8.4%	9.4%	15.1%
1-Quarter	0.3%	0.5%	1.5%	2.6%	0.9%	0.5%	2.1%	1.5%	3.1%

This table gives the total % change in average house values by submarket, through 2022 Q2, from different starting points in time.



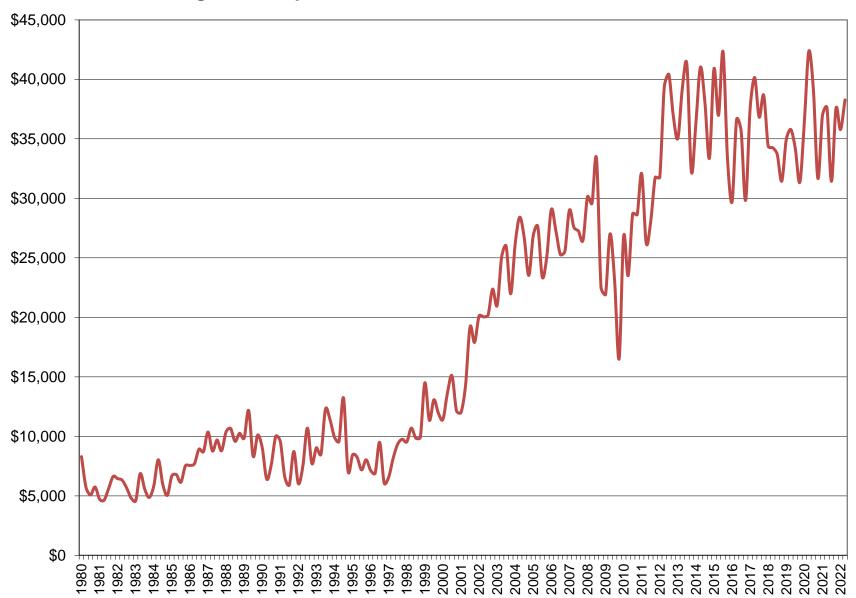
Median Philadelphia House Price v. Indexed Philadelphia House Price 1980-2022



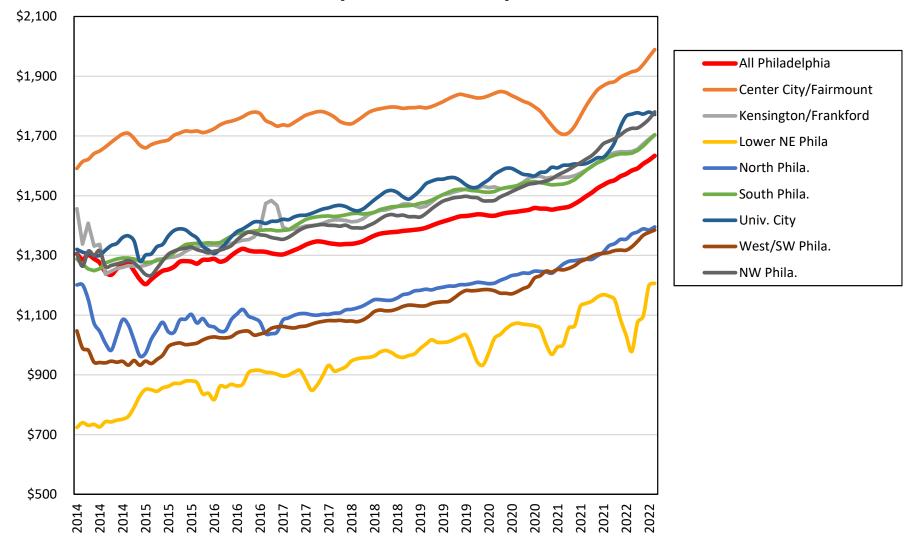
^{*} Empirically estimated by Kevin C. Gillen, Ph.D.



Average Philadelphia House Price Minus Median House Price: 1980-2022

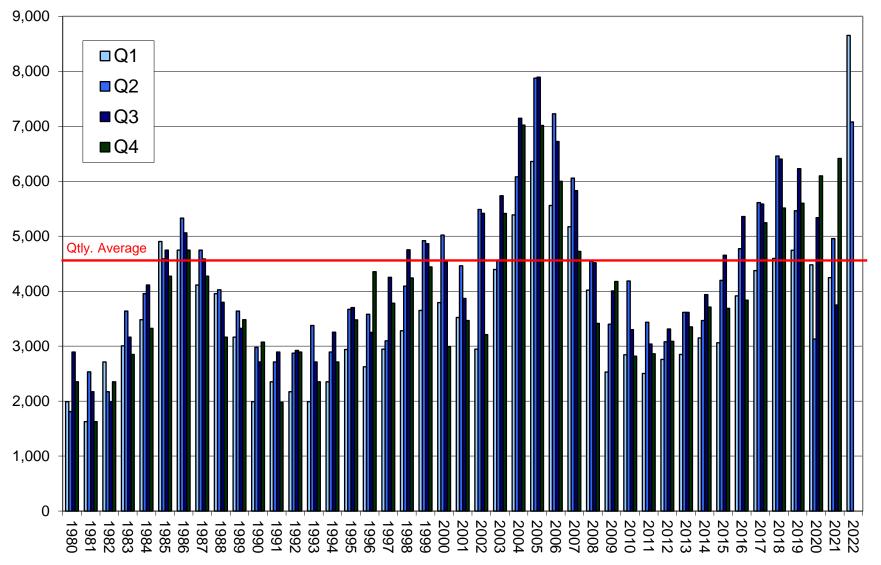


Average Monthly Rent of Philadelphia Dwellings: All Philadelphia v. Philadelphia Submarkets



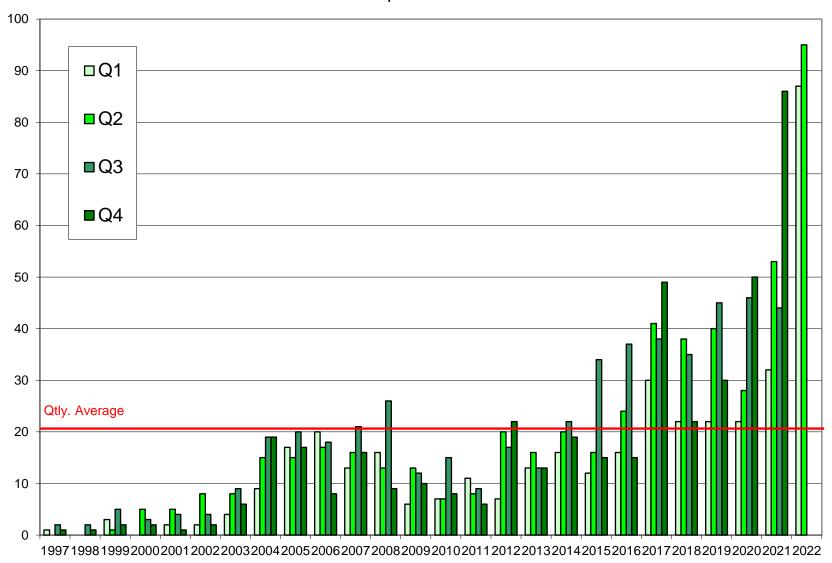
Source: https://www.zillow.com/research/data Note: Zillow's measure of average rents is heavily weighted towards apartment units—as opposed to single-family houses. So, these rent levels almost certainly underestimate the cost of renting a house, since renting a house is typically more expensive than renting an apartment.

Number of Philadelphia House Sales* per Quarter: 1980-2022





Number of Philadelphia House Sales* per Quarter with Price>=\$1 Million: 1997-2022

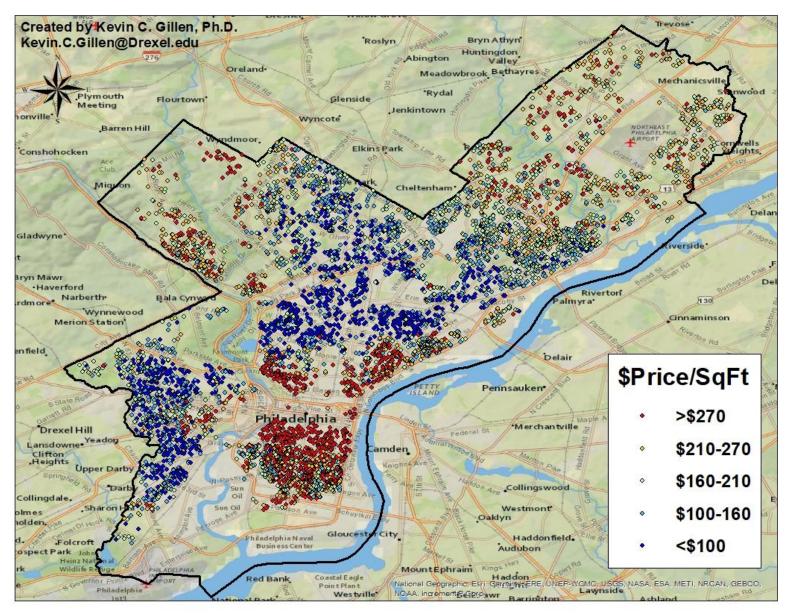








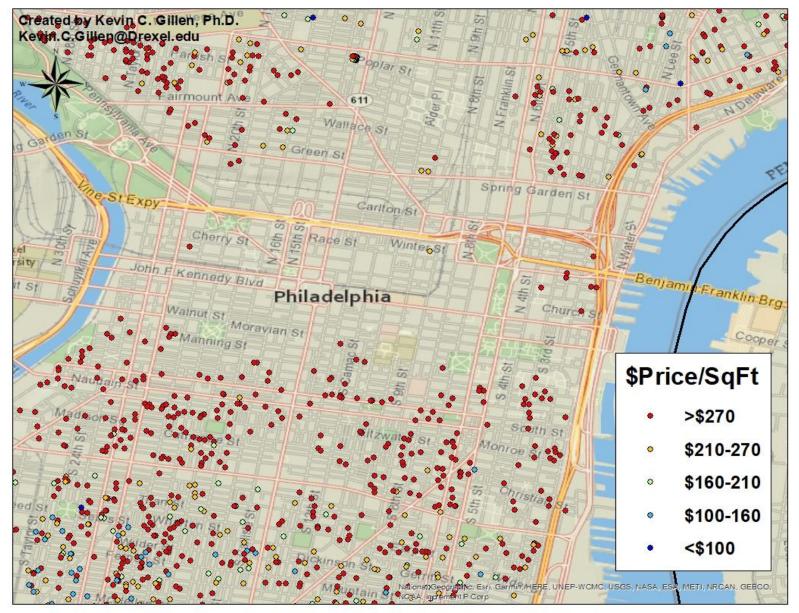
Philadelphia House Sales in 2022 Q2



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.

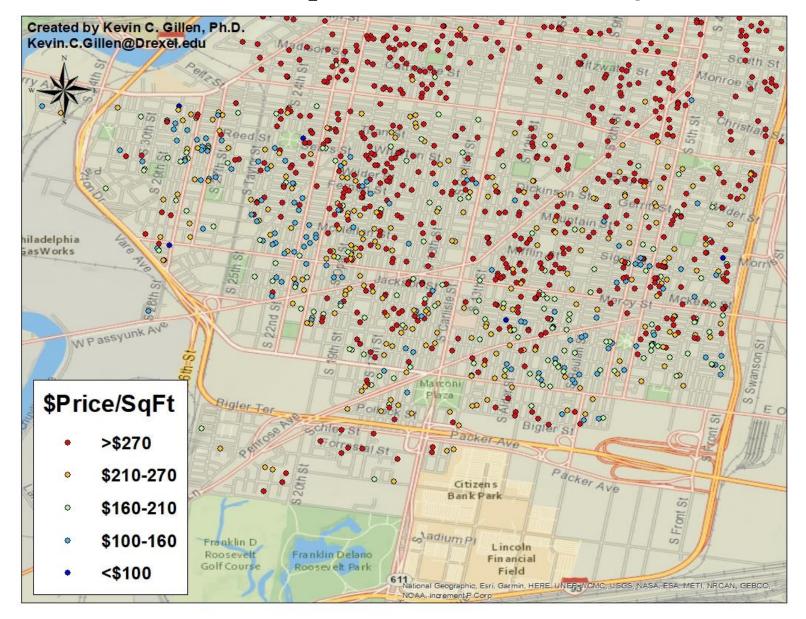


Center City House Sales in 2022 Q2

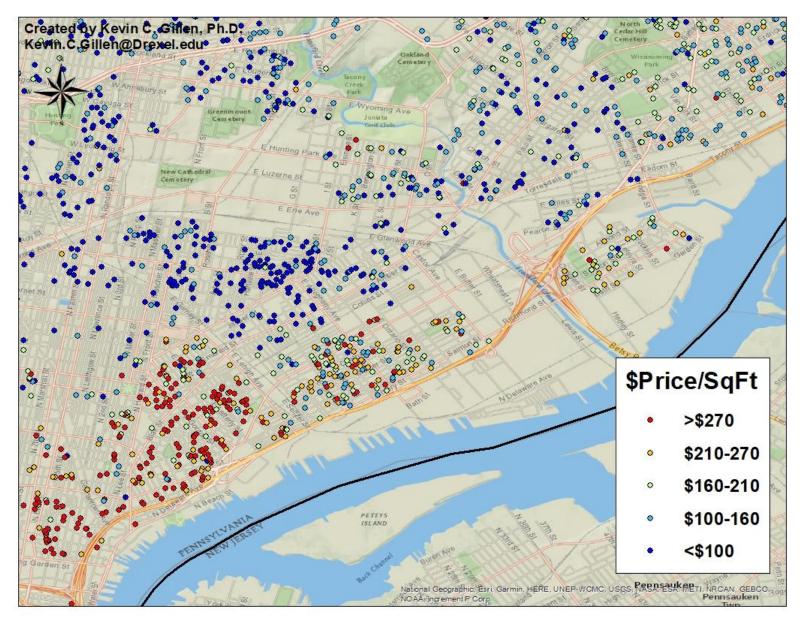




South Philadelphia House Sales in 2022 Q2

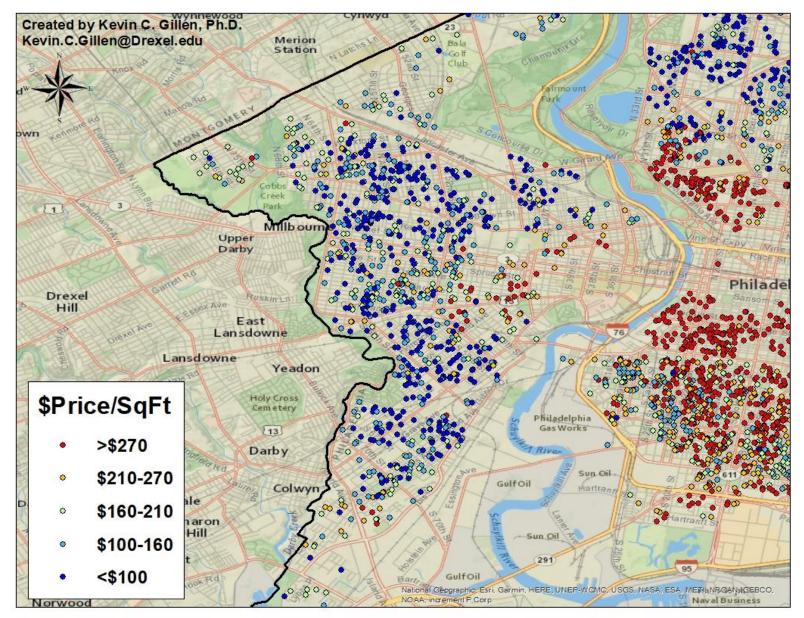


Kensington/Frankford House Sales in 2022 Q2



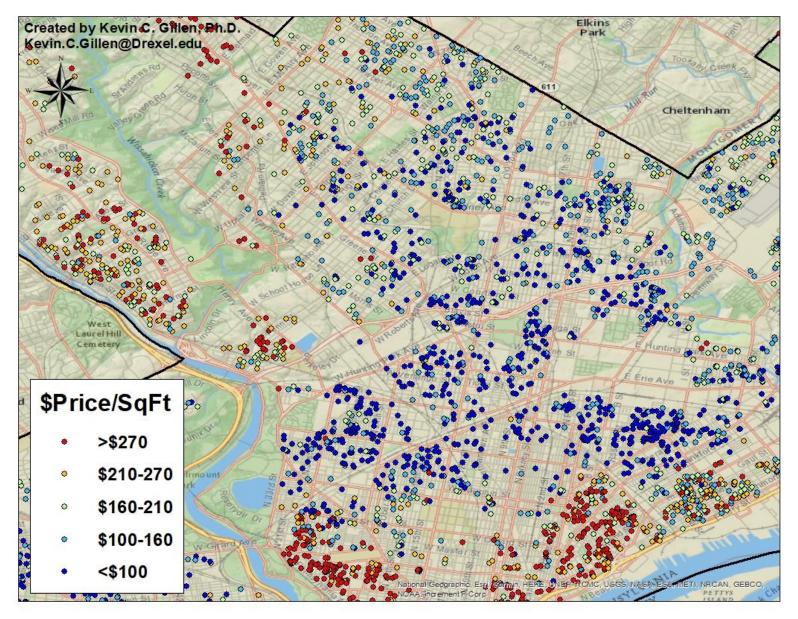


West/Southwest Philadelphia House Sales in 2022 Q2

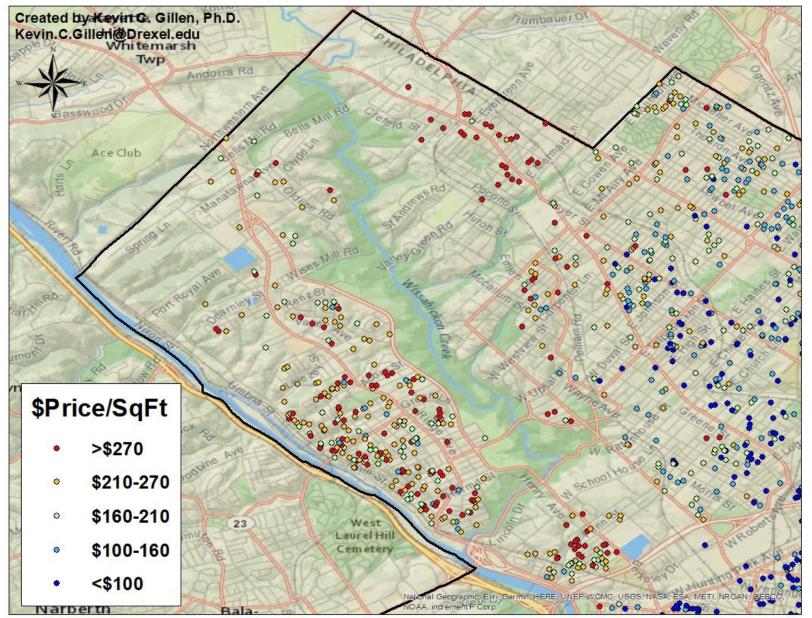




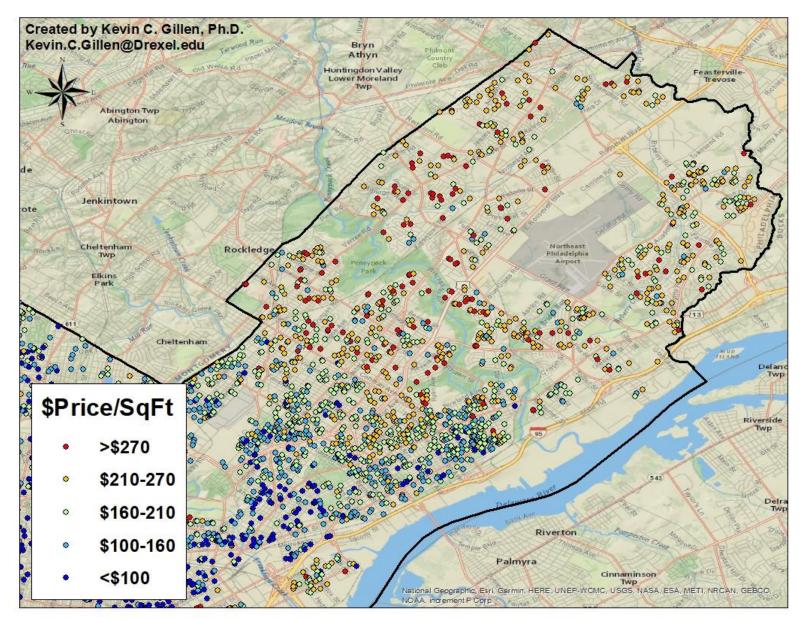
North Philadelphia House Sales in 2022 Q2



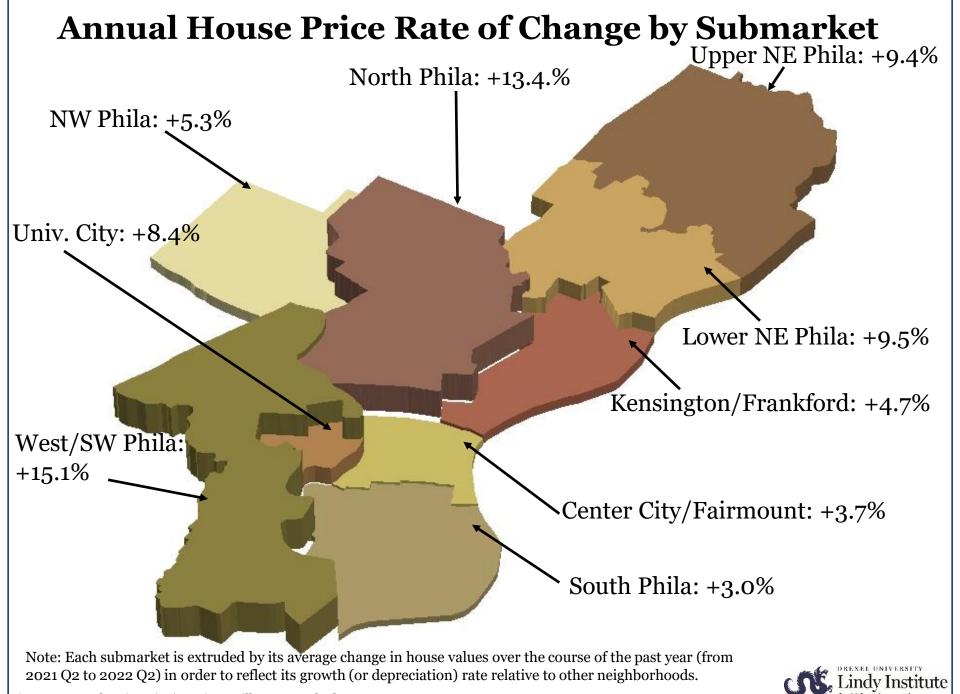
Northwest Philadelphia House Sales in 2022 Q2



Northeast Philadelphia House Sales in 2022 Q2

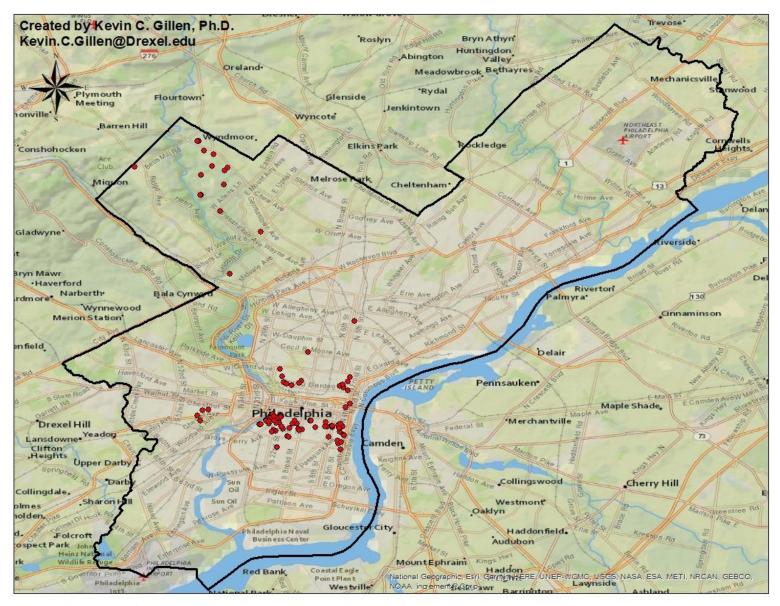






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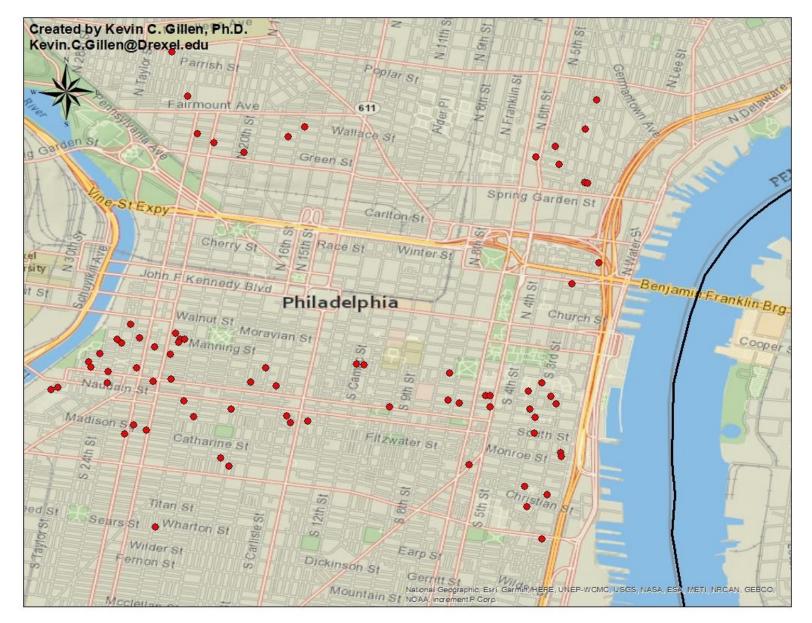
+\$1 Million Dollar House Sales in 2022 Q2



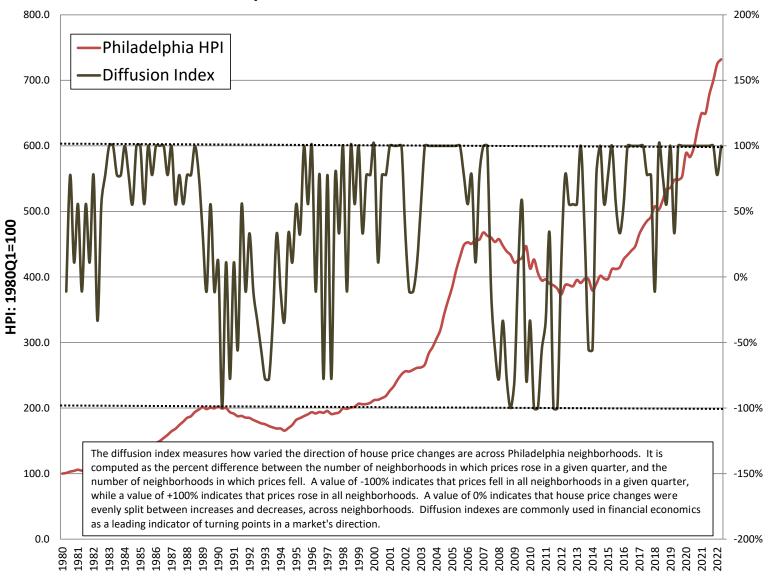
This map shows the location of all houses that sold at a recorded price of one million dollars or more in 2022 Q2.



+\$1 Million Dollar House Sales in 2022 Q2

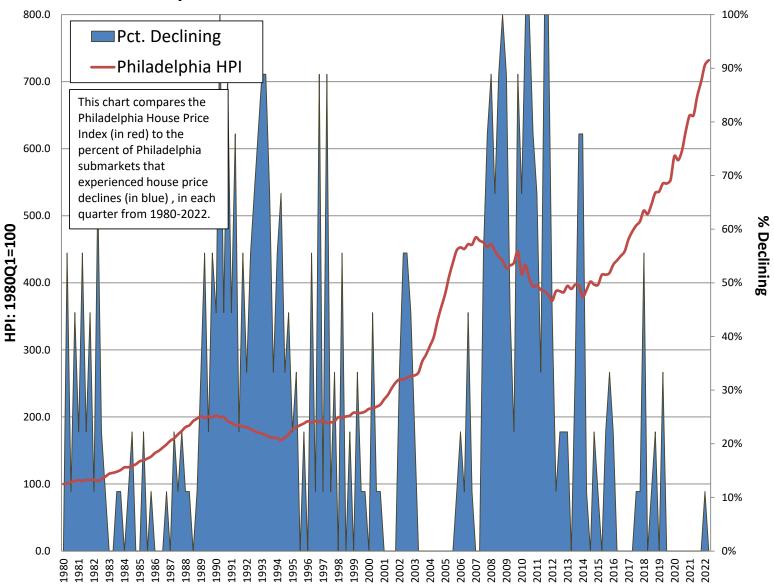


Philadelphia House Price Diffusion Index 1980-2022



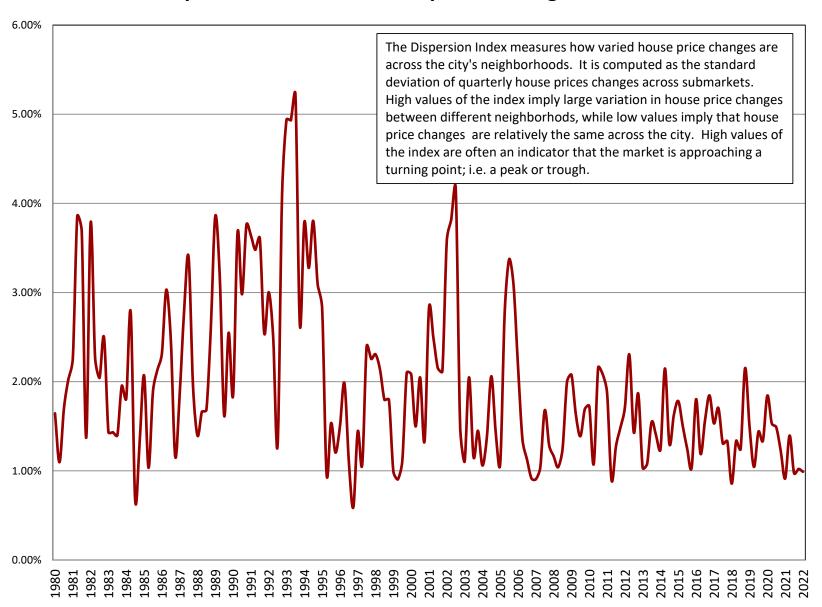


Philadelphia House Prices 1980-2022: Declines v. House Price Index

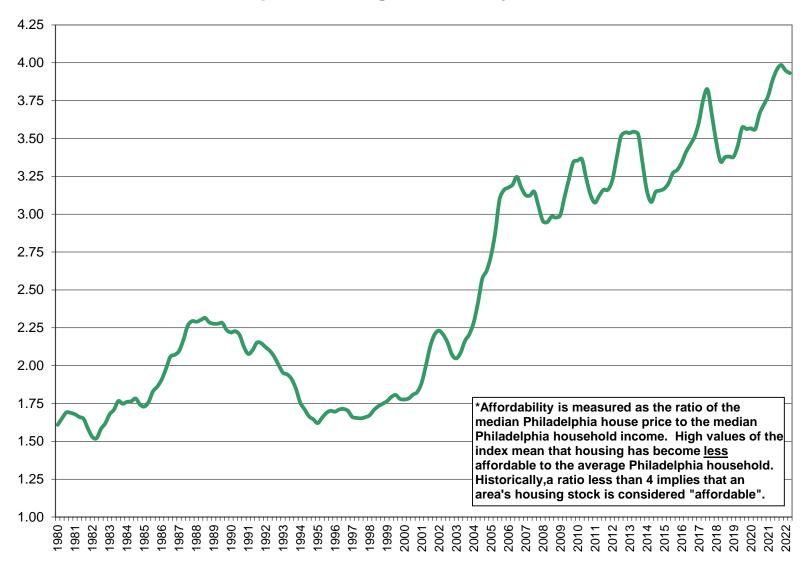




Dispersion Index of Philadelphia Housing 1980-2022



Philadelphia Housing Affordability* Index: 1980-2022



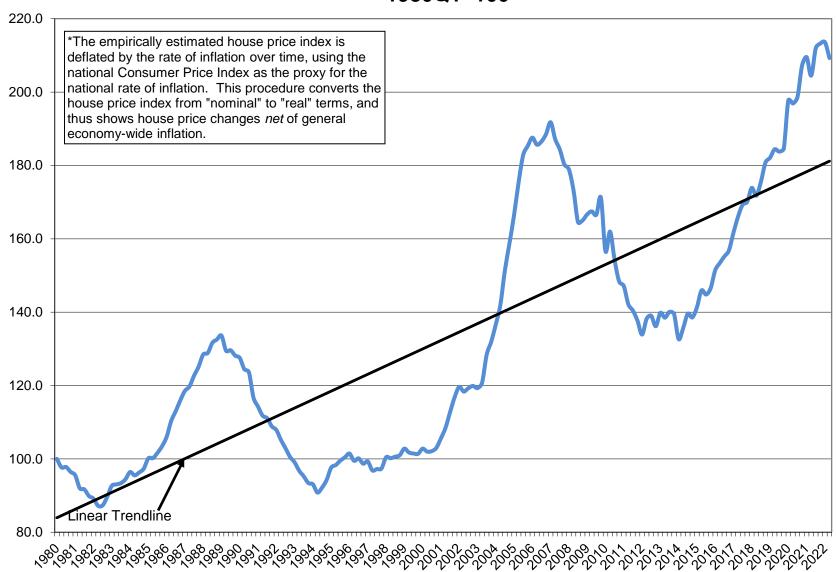
*Although, there is some considerable debate about this.

Source: US Bureau of Labor Statistics

Contact Kevin.C.Gillen@Drexel.edu for details



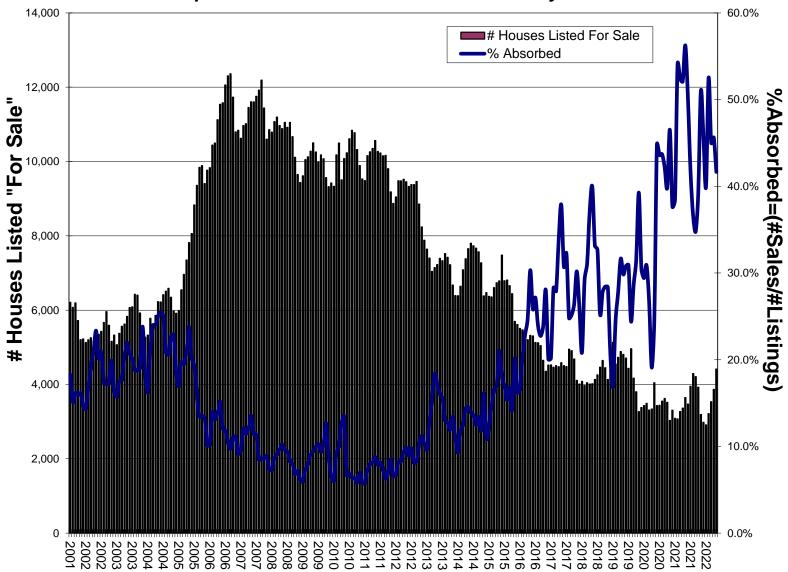
Inflation-Adjusted* Philadelphia House Price Index 1980-2022 1980Q1=100



Source: US Bureau of Labor Statistics



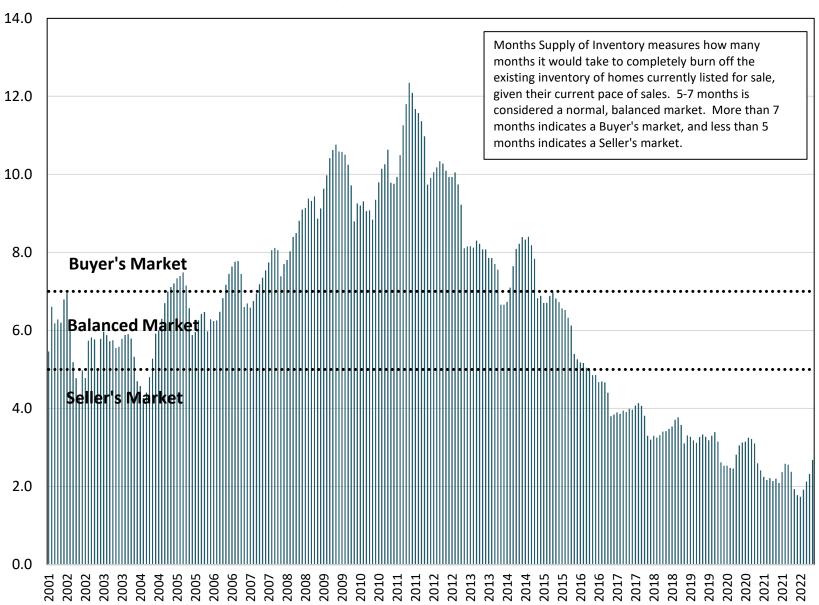
Philadelphia Houses Listed For Sale: Inventory v. Sales Rate



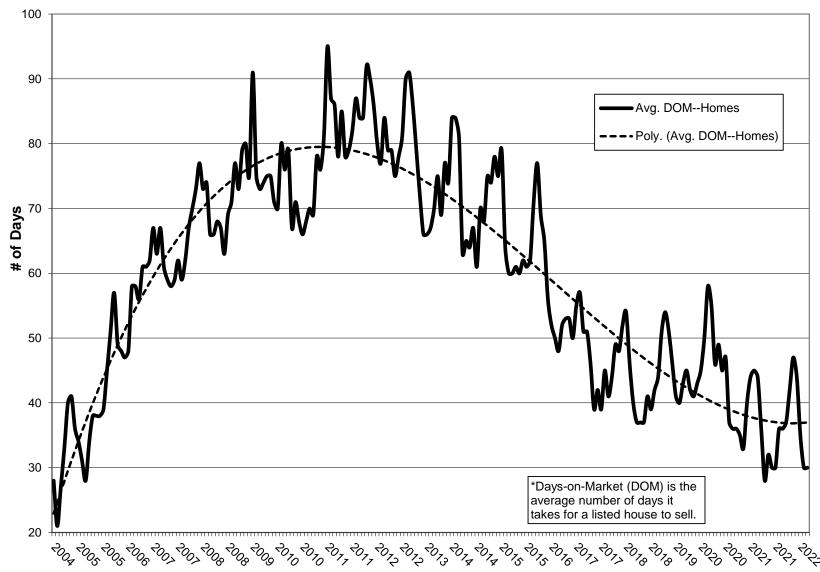
"%Absorbed" is defined as the percent of homes listed for sale in a given month that also sold in that same month.



Months Supply of Inventory in Philadelphia

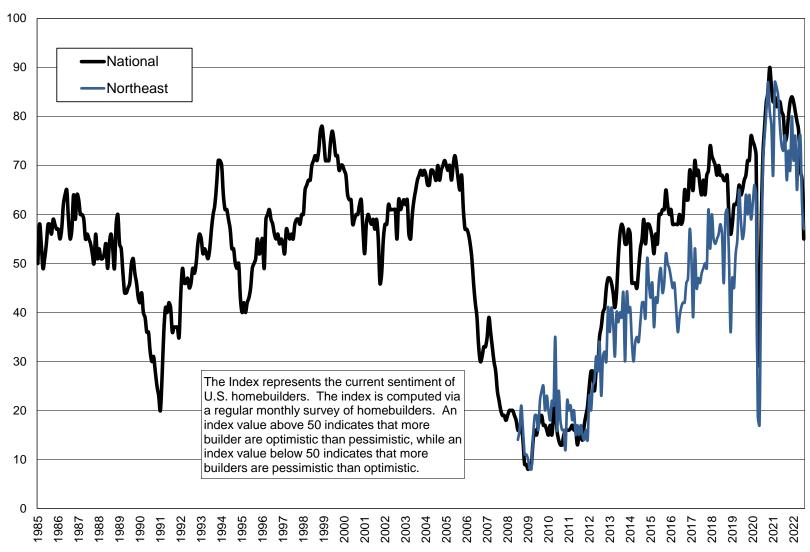


Average Days-on-Market* for Philadelphia Homes: 2004-2022





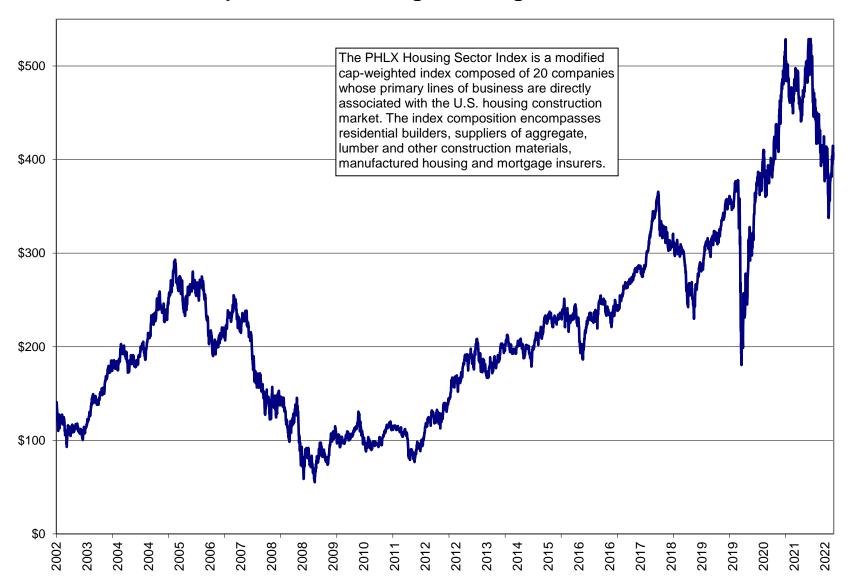
Index of Homebuilder Sentiment: 1985-2022 (Seasonally Adjusted)



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



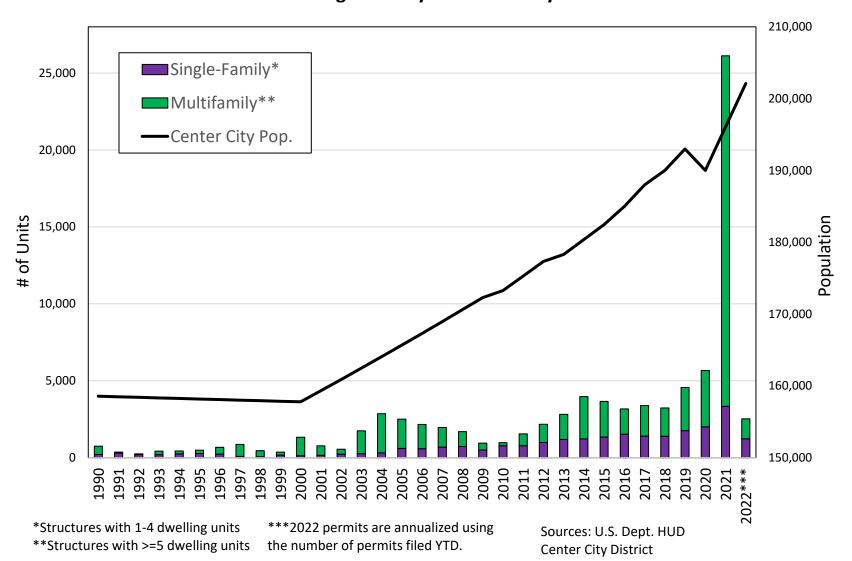
Philadelphia Stock Exchange Housing Sector Index: 2002-2022



Source: https://finance.yahoo.com/quote/%5EHGX/history



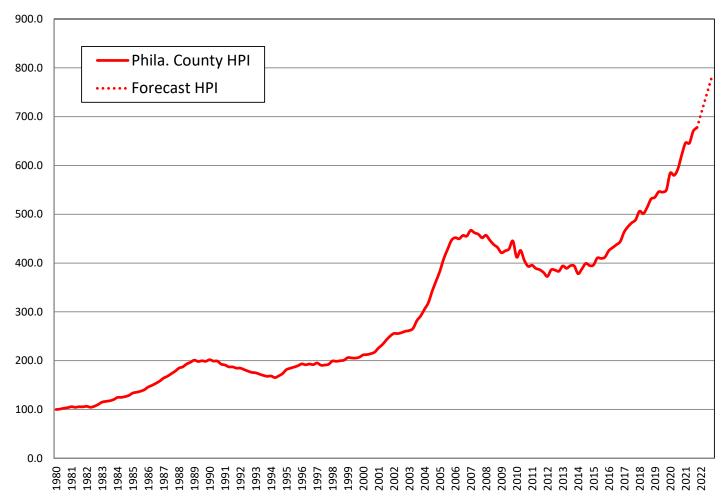
Building Permits Issued for Construction of Residential Units in Philadelphia 1990-2022: Single-Family v. Multifamily





Philadelphia House Price Index and 1-Year Forecast





Zillow's most recent forecast projects an increase of 6.2% in Philadelphia's general level of house prices over the next 12 months. This is a significant downgrade from their previous forecast of 12.0% released in the previous quarter, but still above Philadelphia's historic house price appreciation rate of 4.5%.

Source: https://www.zillow.com/research/data/