PHILADELPHIA HOUSE PRICE INDICES

January 26, 2023

COST DREXEL UNIVERSITY Lindy Institute for Urban Innovation

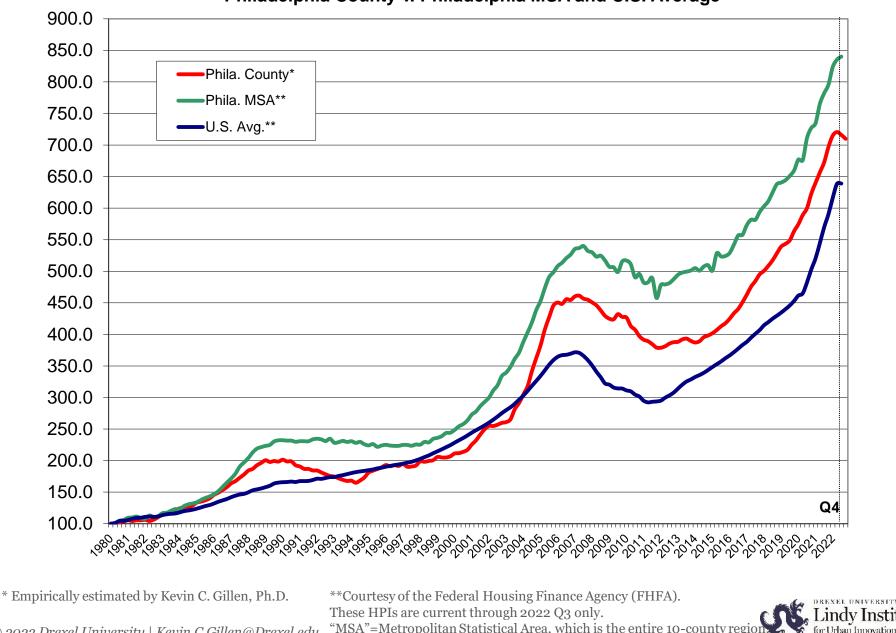
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House Price Indices 1980-2022: 1980Q1=100 Philadelphia County v. Philadelphia MSA and U.S. Average



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"MSA"=Metropolitan Statistical Area, which is the entire 10-county region

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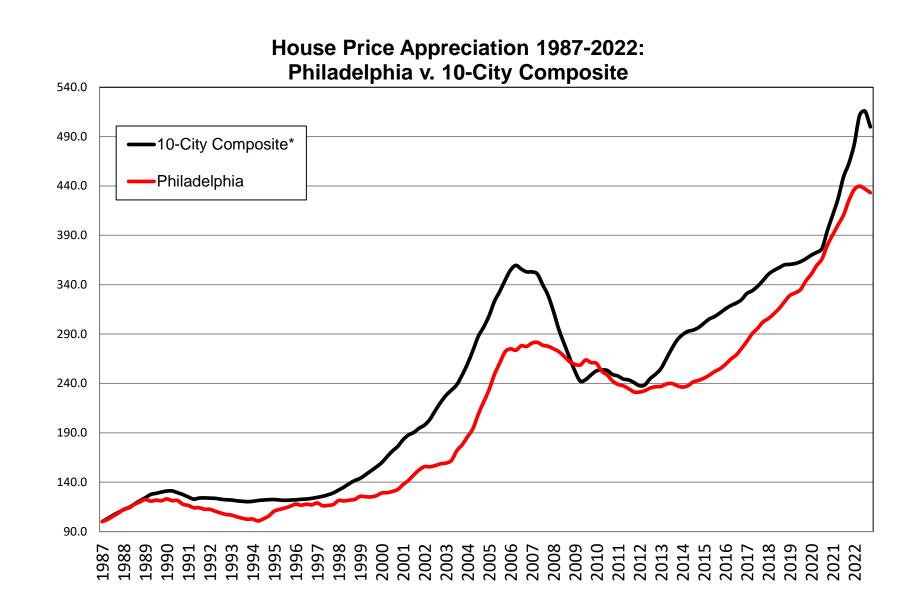
Total House Price Appreciation Rates by Geographic Market

Period	Philadelphia County*	Philadelphia MSA**	U.S.A. **
42-Year	609.7%	740.2%	538.9%
10-Year	83.1%	74.5%	110.7%
1-Year	1.9%	7.4%	12.2%
1-Quarter	-0.9%	0.6%	0.0%

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

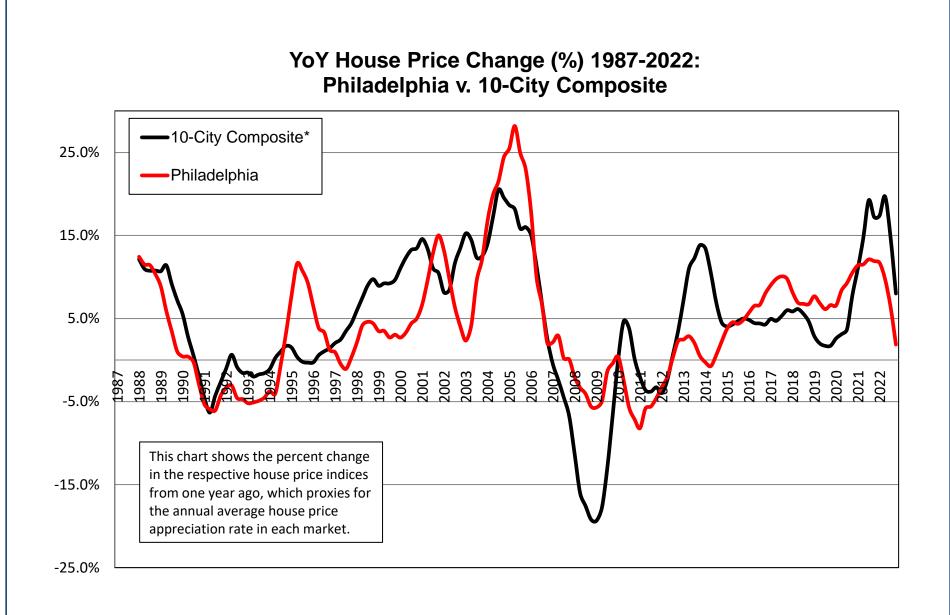
**Source: U.S. Federal Housing Finance Agency (FHFA). These numbers are through 2022Q3 only. "MSA"="Metropolitan Statistical Area", which is the entire 10-county region.





*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.

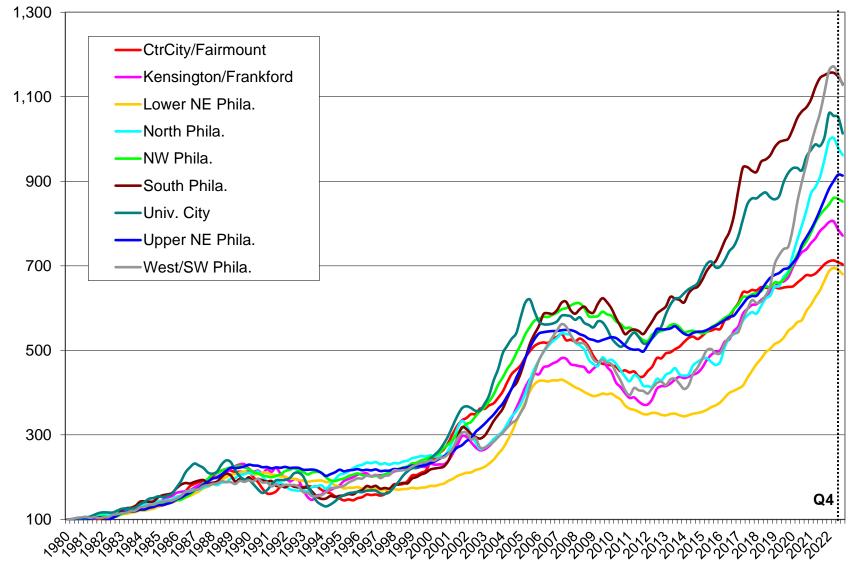




*Source: S&P/Case-Shiller. The 10-City Composite index includes Boston, Chicago, Denver, Las Vegas, Los Angeles, Miami, New York, San Diego, San Francisco, and Washington, DC. It does not include Philadelphia.



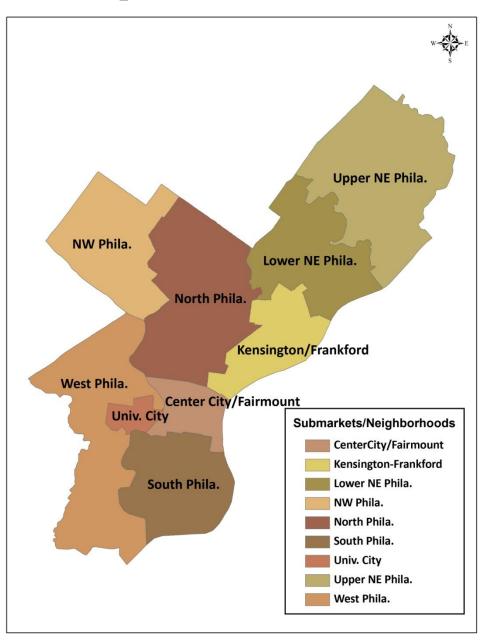
Philadelphia House Price Indices by Neighborhood: 1980-2022 1980Q1=100



* All indices empirically estimated by Kevin C. Gillen, Ph.D. © 2023 Drexel University | Kevin.C.Gillen@Drexel.edu



Philadelphia Submarket Boundaries





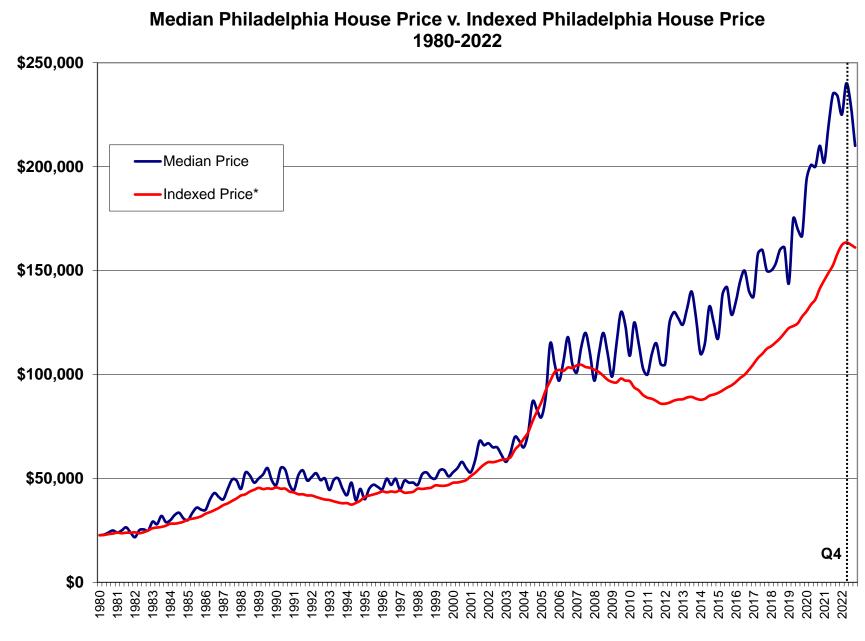
Period	Center City/ Fairmount	Kensington /Frankford	Lower NE Phila.	North Phila.	NW Phila.	South Phila.	Univ. City	Upper NE Phila.	West/ SW Phila.
42-year	603.7%	671.6%	580.1%	862.2%	751.9%	1030.4%	913.4%	813.5%	1028.0%
10-year	46.3%	85.9%	95.7%	124.3%	56.0%	89.9%	82.1%	66.3%	164.9%
1-Year	0.0%	-2.6%	2.2%	1.1%	2.2%	-1.8%	0.9%	6.6%	1.5%
1-Quarter	-0.7%	-1.8%	-1.5%	-1.8%	-0.8%	-1.5%	-3.7%	-0.2%	-2.2%

Philadelphia House Price Appreciation Rates by Submarket

This table gives the total % change in average house values by submarket, through 2022 Q4, from different starting points in time.

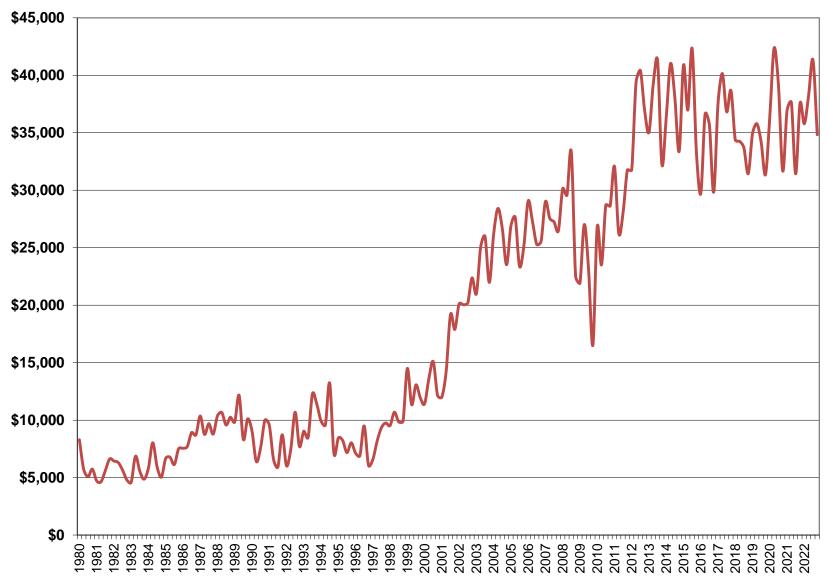
Note: Unlike the citywide index, the submarket indices are smoothed out by a three-period moving average.





* Empirically estimated by Kevin C. Gillen, Ph.D. © 2023 Drexel University | Kevin.C.Gillen@Drexel.edu

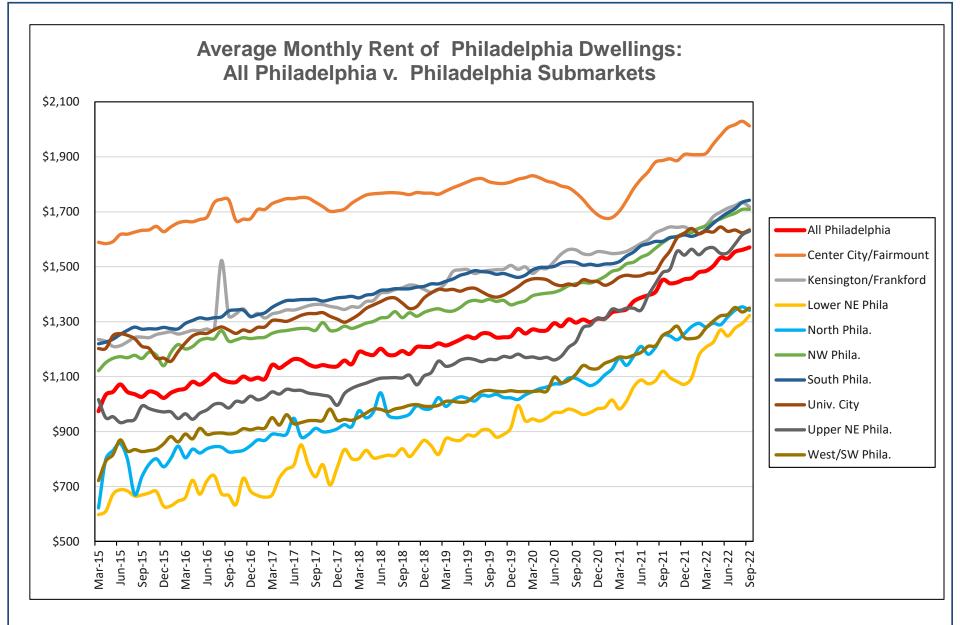




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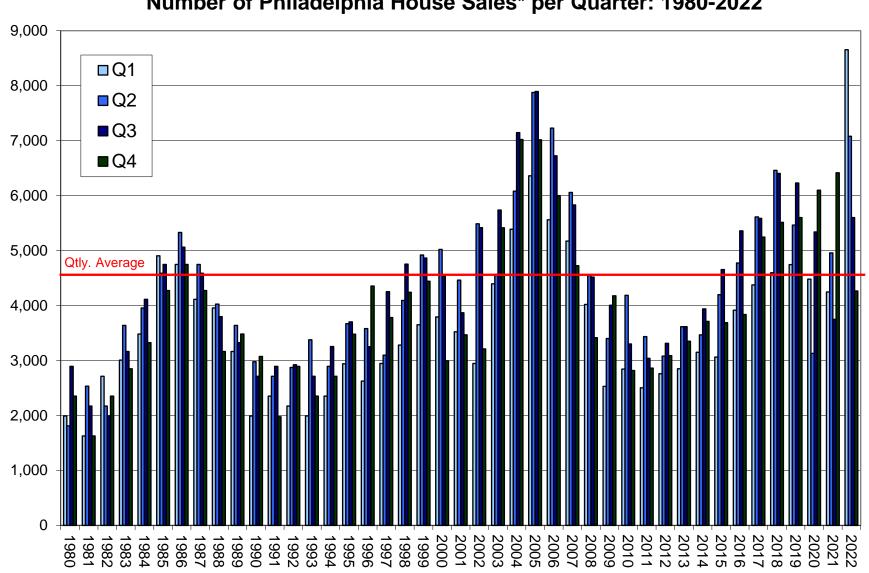
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Average Philadelphia House Price Minus Median House Price: 1980-2022



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.

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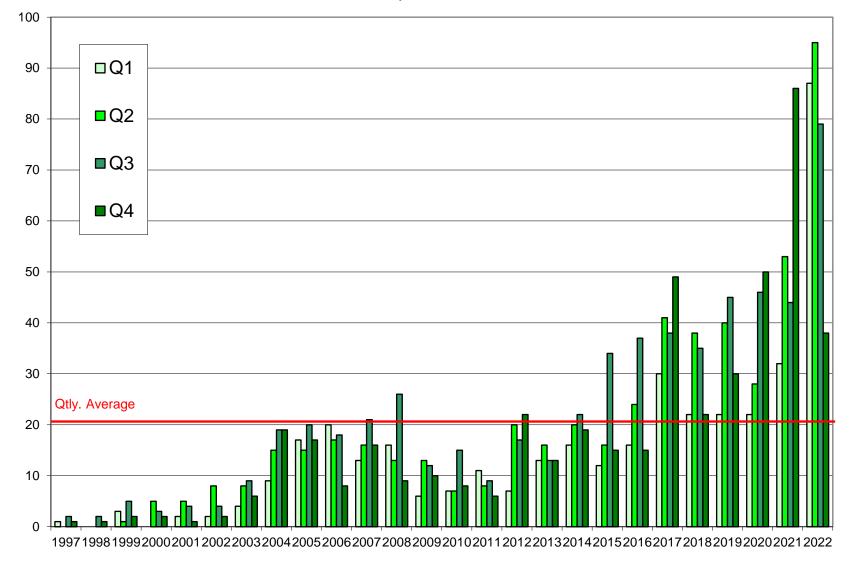


Number of Philadelphia House Sales* per Quarter: 1980-2022

*Only arms-length transactions between private sector entities were included in these numbers. © 2023 Drexel University | Kevin.C.Gillen@Drexel.edu



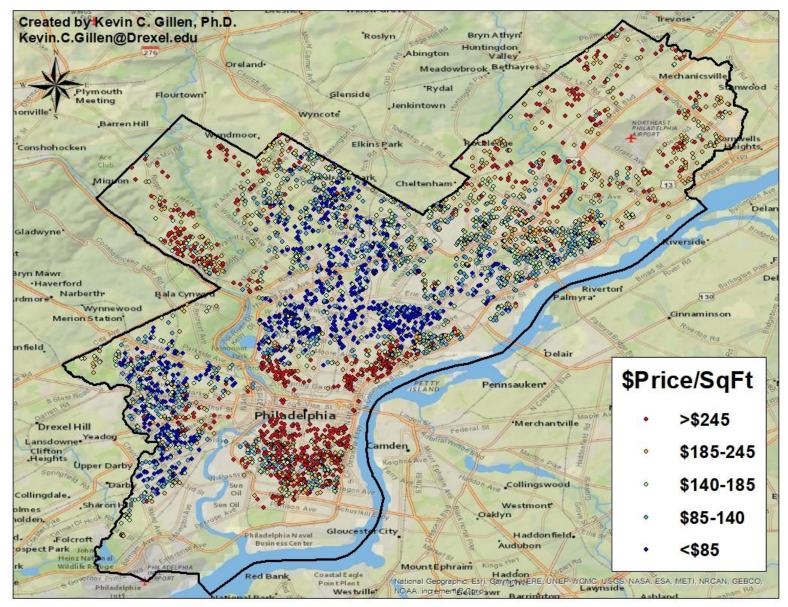
Number of Philadelphia House Sales* per Quarter with Price>=\$1 Million: 1997-2022



*Only arms-length transactions between private sector entities were included in these numbers. © *2023 Drexel University* | *Kevin.C.Gillen@Drexel.edu*



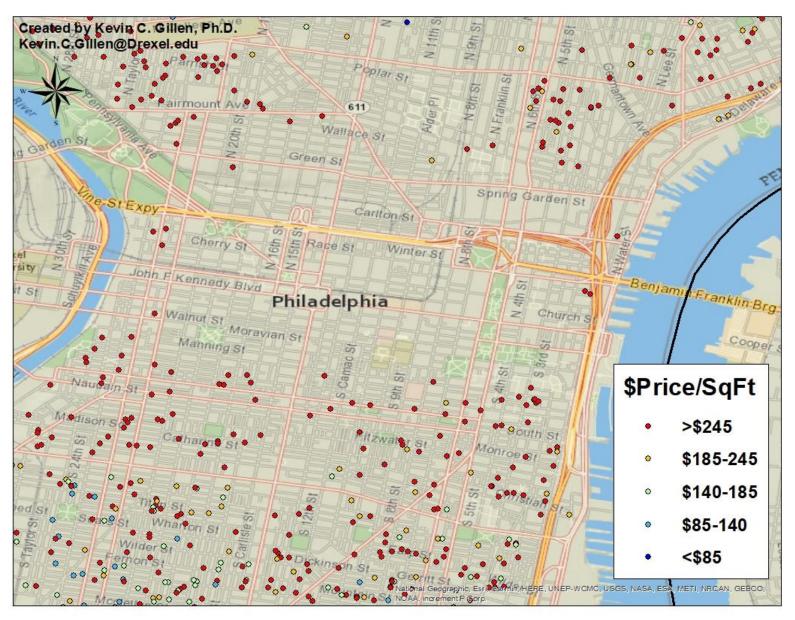
Philadelphia House Sales in 2022 Q4



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. © 2023 Drexel University | Kevin.C.Gillen@Drexel.edu

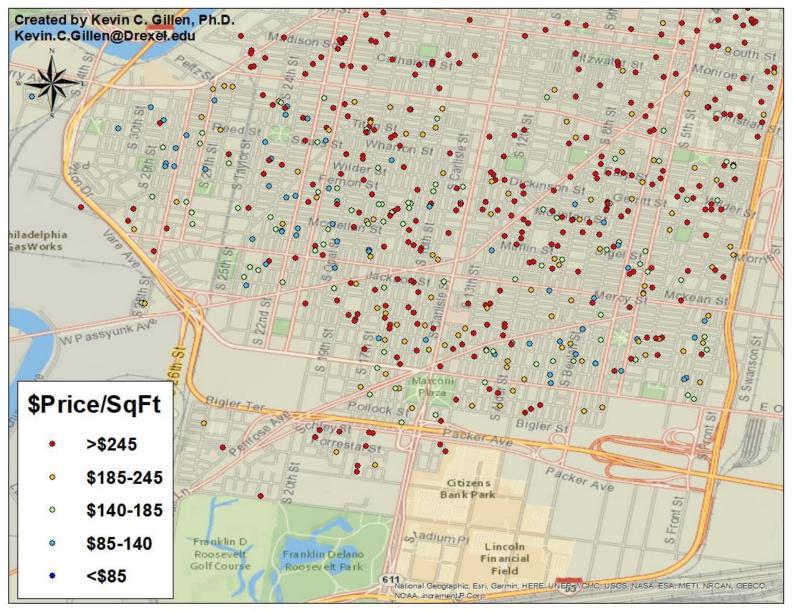


Center City House Sales in 2022 Q4



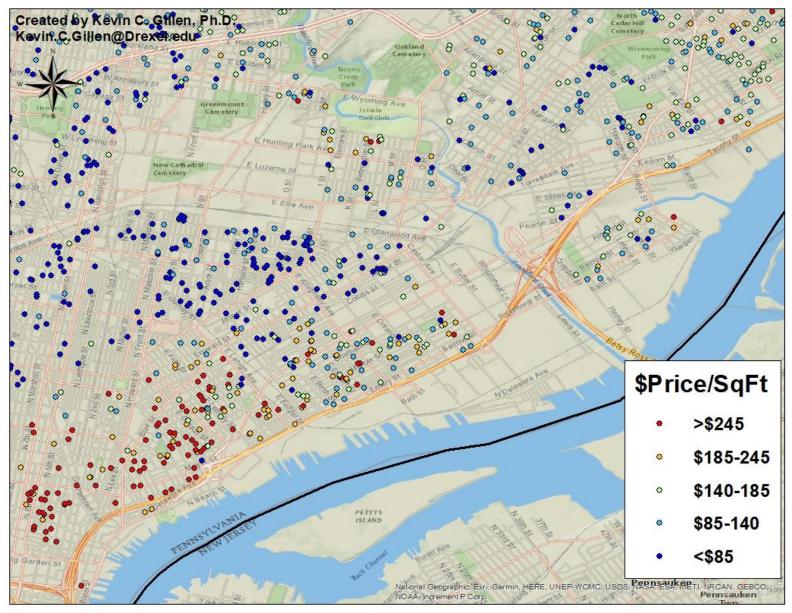


South Philadelphia House Sales in 2022 Q4



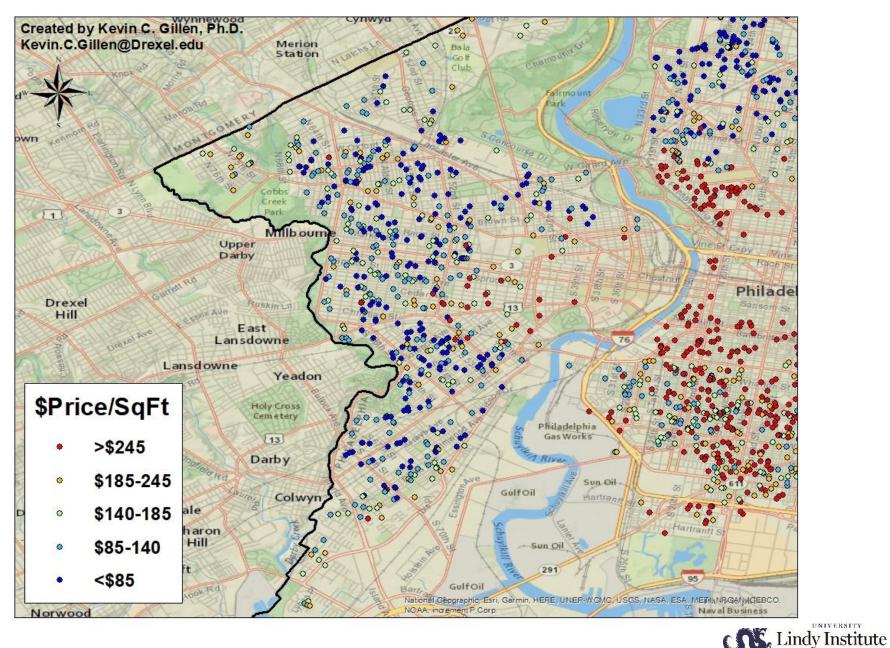


Kensington/Frankford House Sales in 2022 Q4



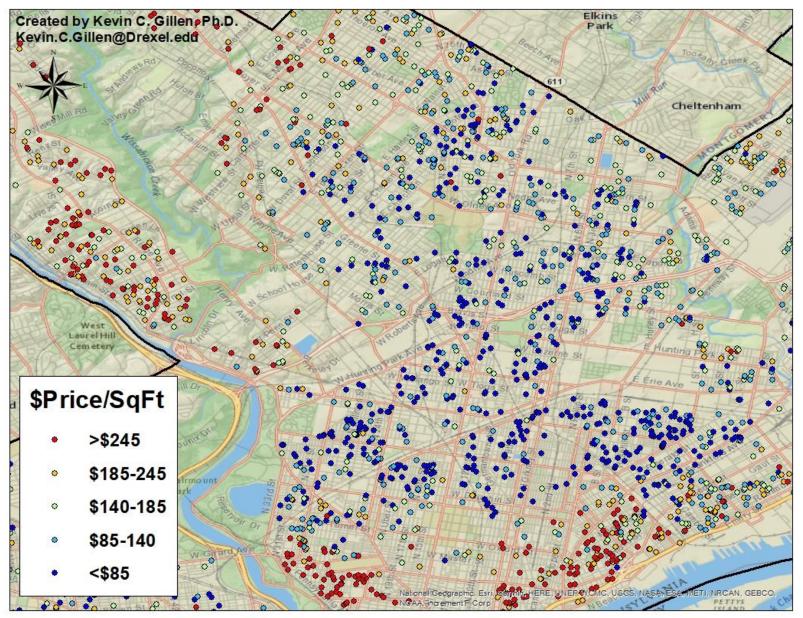


West/Southwest Philadelphia House Sales in 2022 Q4



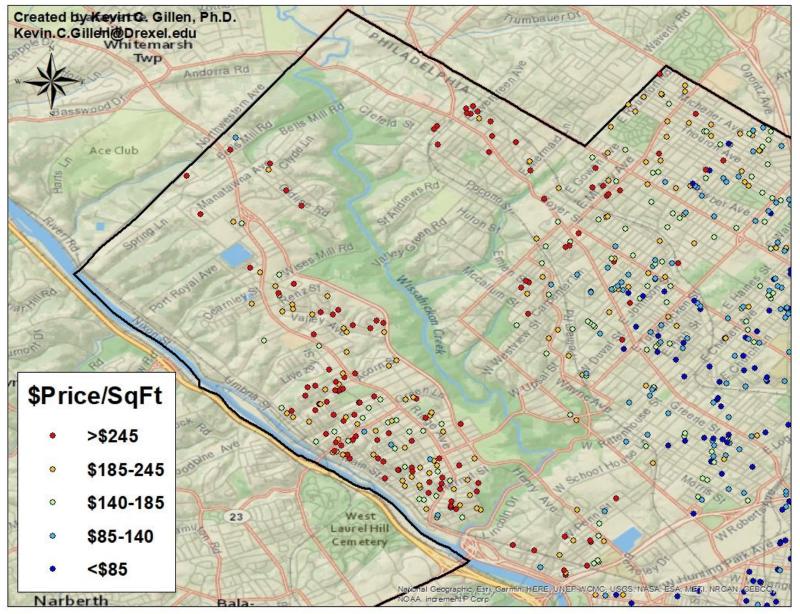
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North Philadelphia House Sales in 2022 Q4



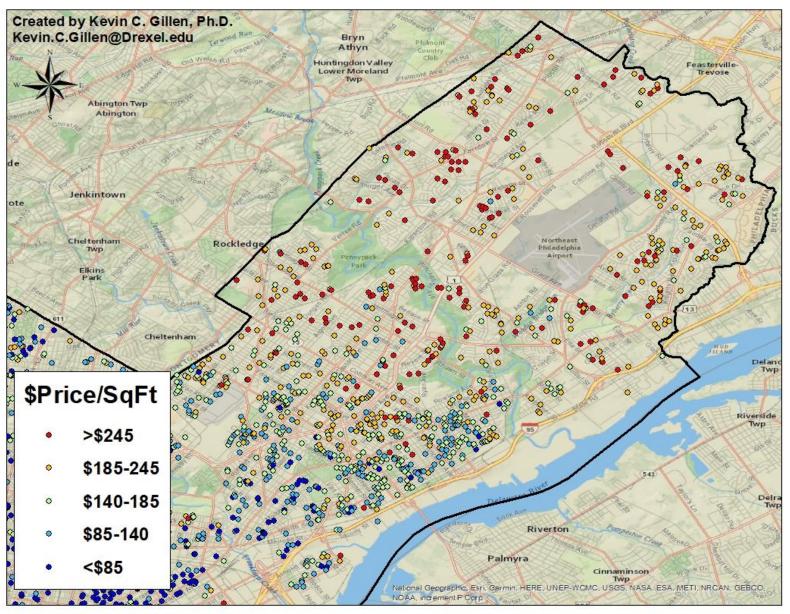


Northwest Philadelphia House Sales in 2022 Q4

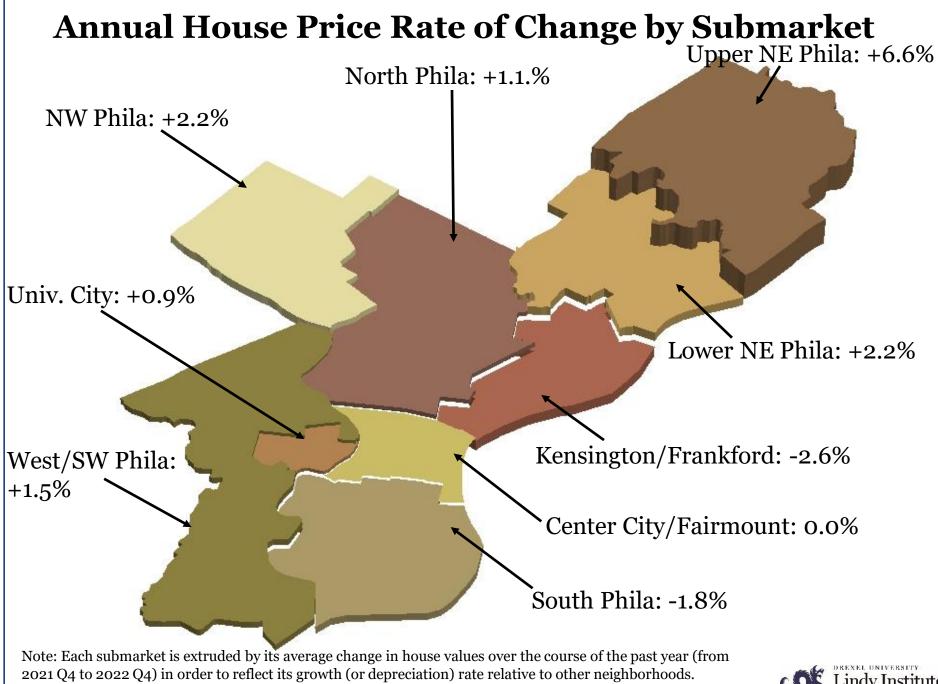




Northeast Philadelphia House Sales in 2022 Q4

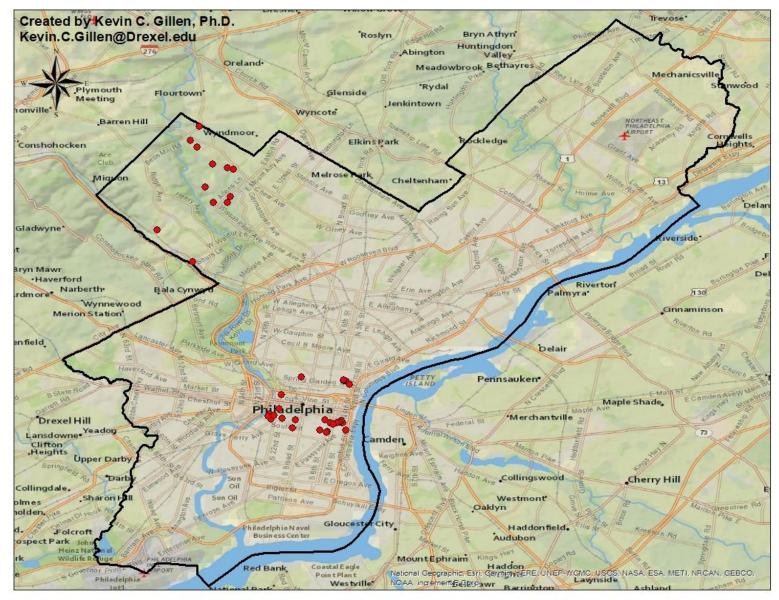








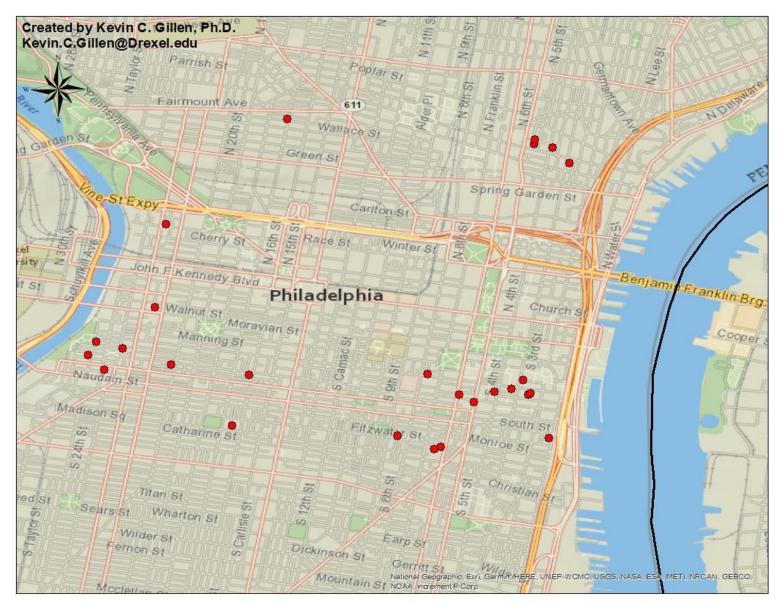
+\$1 Million Dollar House Sales in 2022 Q4



This map shows the location of all houses that sold at a recorded price of one million dollars or more in 2022 Q4.

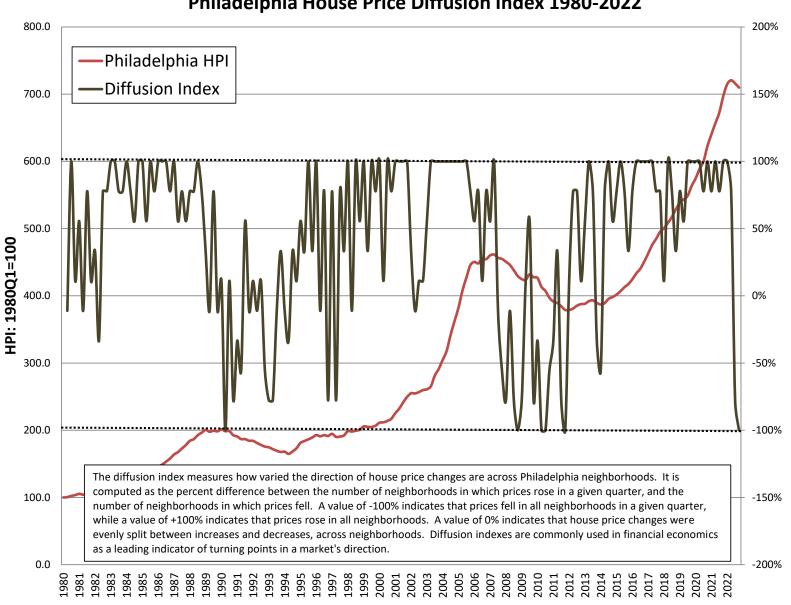


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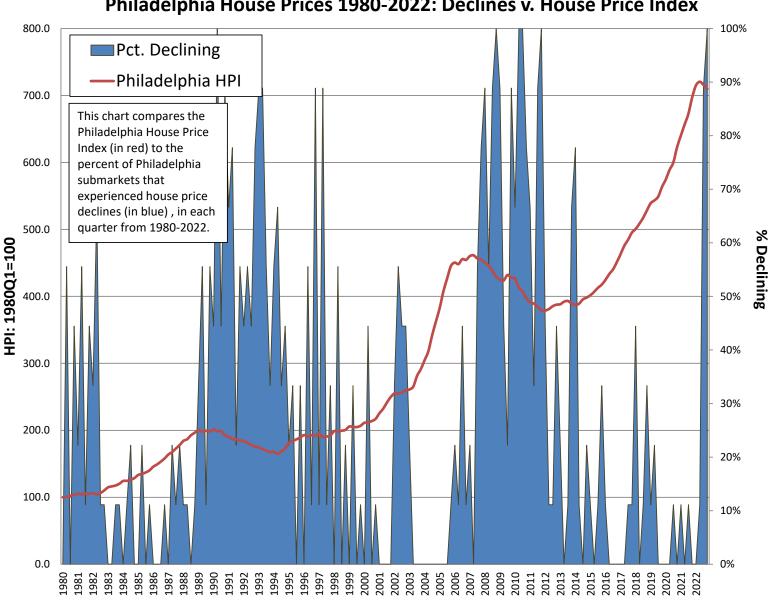


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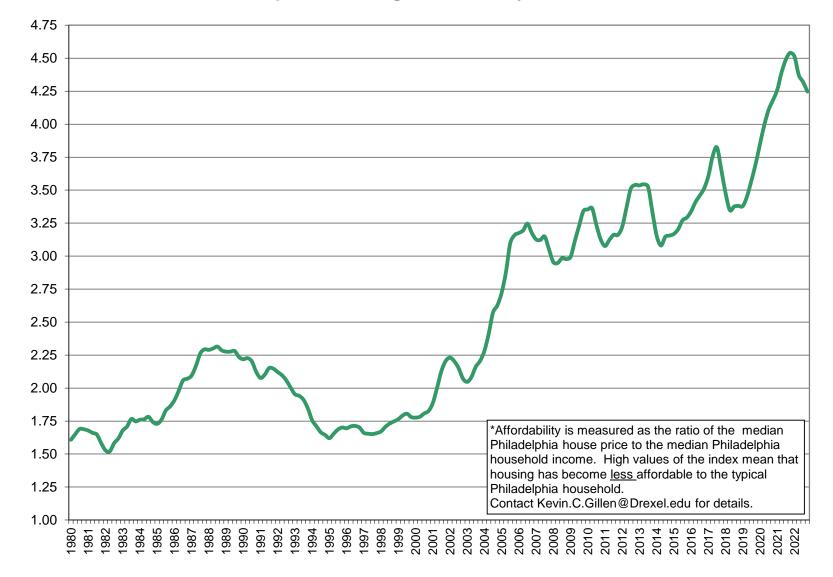






Philadelphia House Prices 1980-2022: Declines v. House Price Index



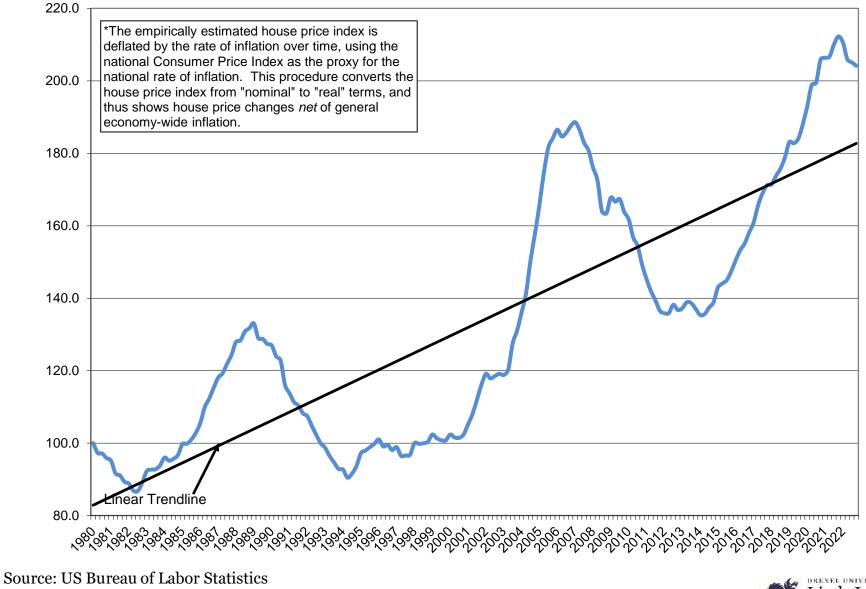


Philadelphia Housing Affordability* Index: 1980-2022

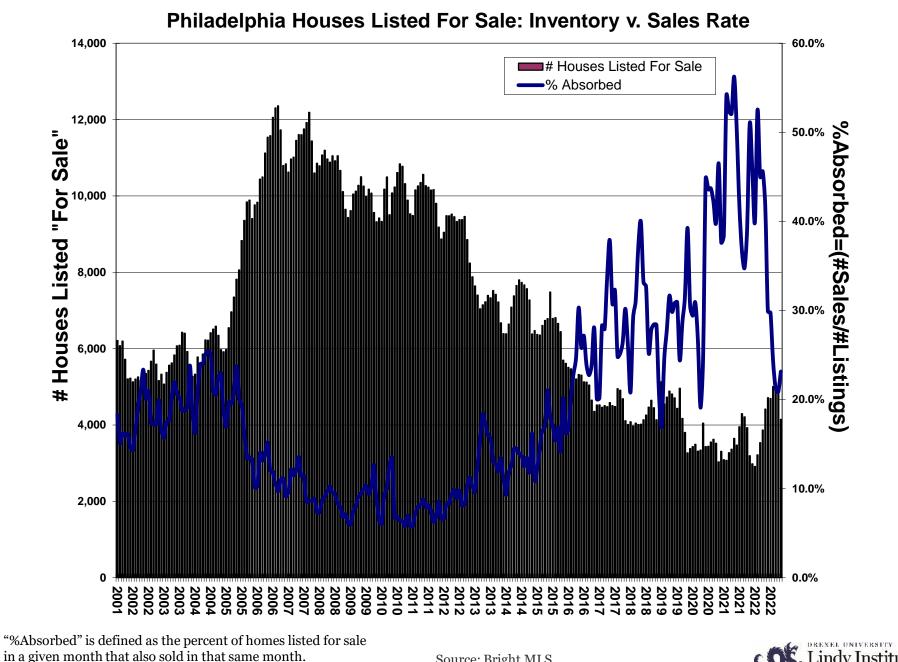
Source: US Bureau of Labor Statistics



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





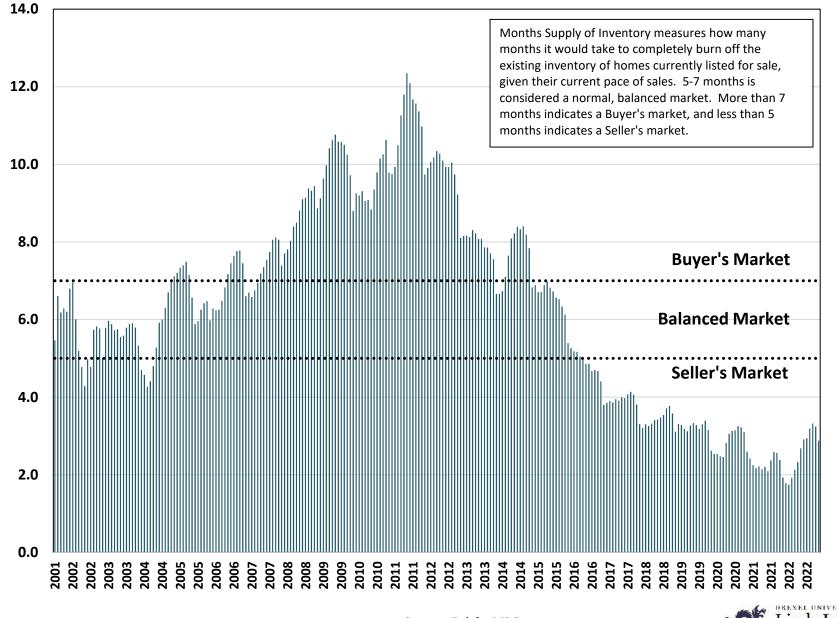


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Source: Bright MLS



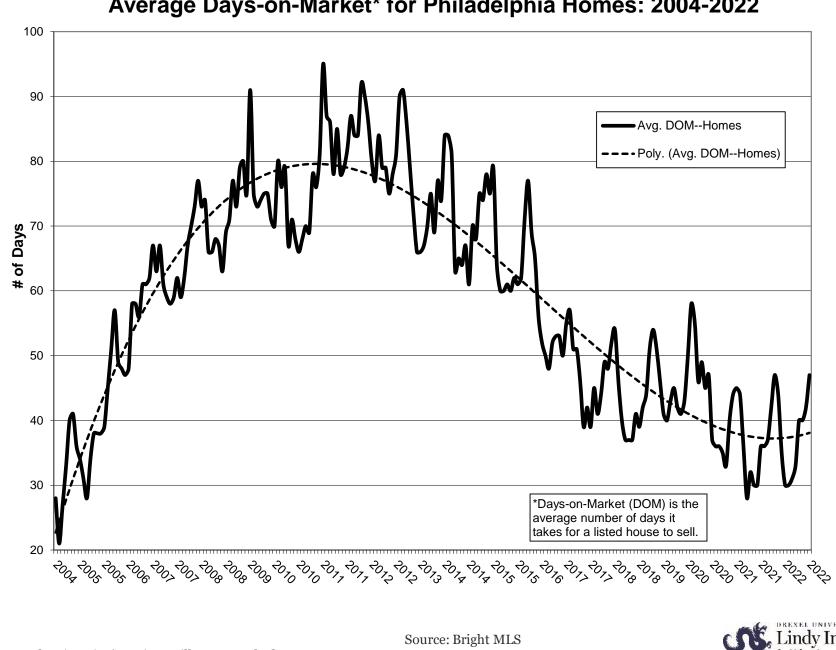
Months Supply of Inventory in Philadelphia



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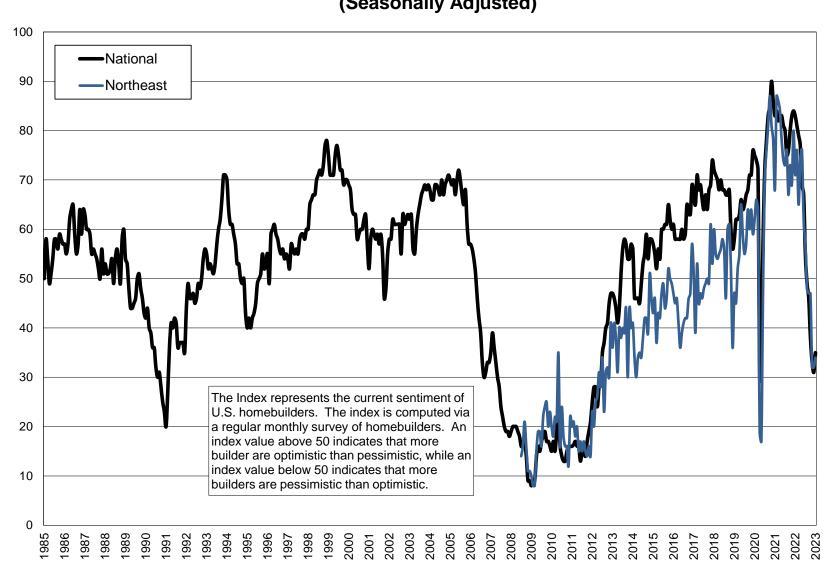
Source: Bright MLS





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



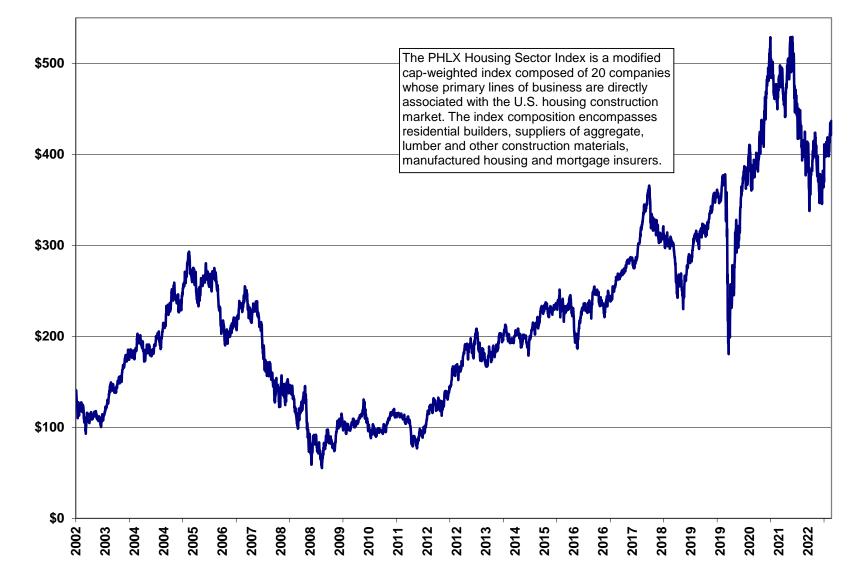


Index of Homebuilder Sentiment: 1985-2022 (Seasonally Adjusted)

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



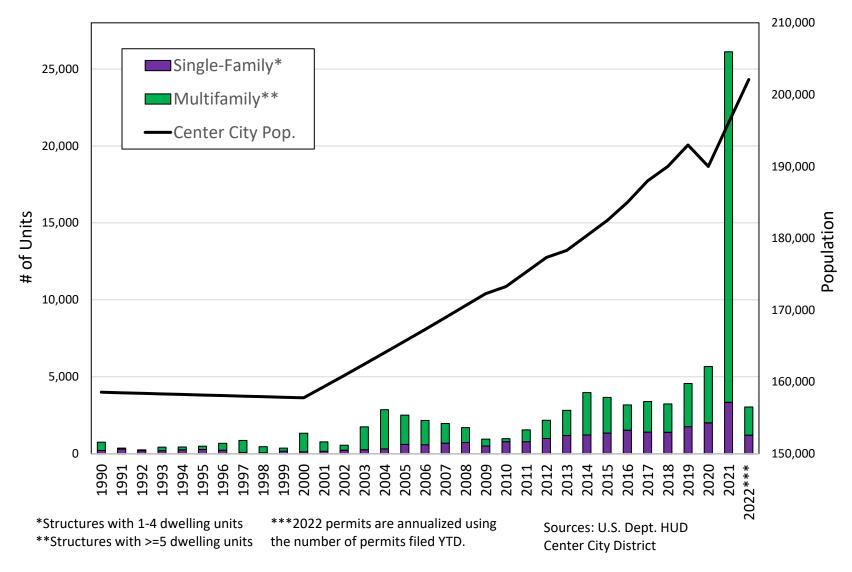
Philadelphia Stock Exchange Housing Sector Index: 2002-2023



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



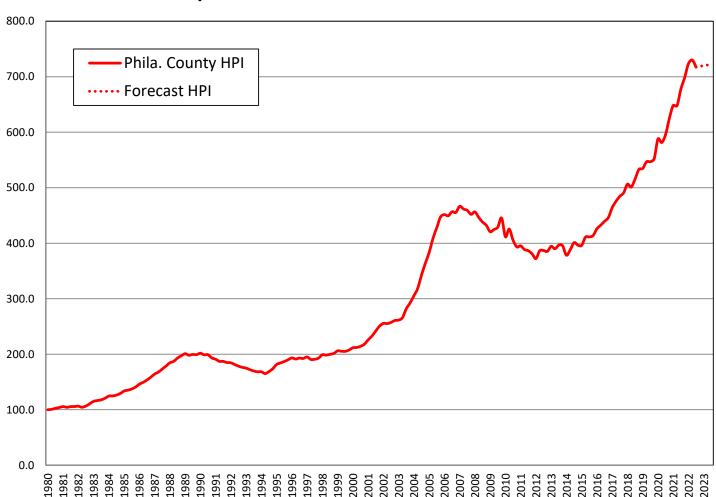
Building Permits Issued for Construction of Residential Units in Philadelphia 1990-2022: Single-Family v. Multifamily



Note: The large spike in building permits in 2021 is due to many developers seeking approval for their projects before legislated changes to the city's 10-year tax abatement took effect when the new year rolled over.



Philadelphia House Price Index and 1-Year Forecast



Philadelphia House Price Index: Actual v. Forecast

Zillow's most recent forecast projects an increase of 0.7% in Philadelphia's general level of house prices over the next 12 months. This is a substantial downgrade from their previous forecast of 6.2% released in the previous quarter, which was also a substantial downgrade from that quarter's previous forecast of 12%.

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

