# PHILADELPHIA HOUSE PRICE INDICES

### July 29, 2020



KEVIN C. GILLEN, Ph.D.

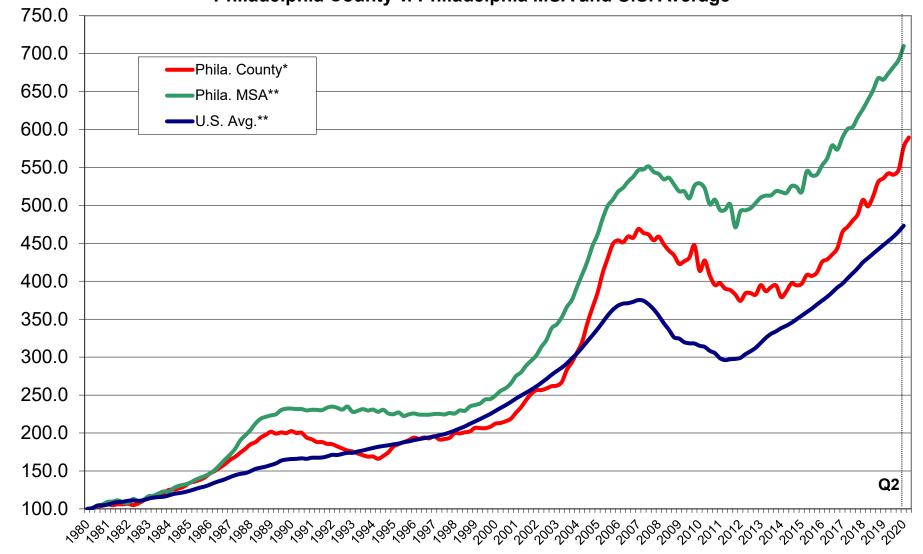
Kevin.C.Gillen@Drexel.edu



**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. © 2019, Drexel University, All Rights Reserved.



## House Price Indices 1980-2020: 1980Q1=100 Philadelphia County v. Philadelphia MSA and U.S. Average



<sup>\*</sup> Empirically estimated by Kevin C. Gillen, Ph.D.

These HPIs are current through 2020Q1 only.

<sup>\*\*</sup>Courtesy of the Federal Housing Finance Agency (FHFA).

<sup>&</sup>quot;MSA"=Metropolitan Statistical Area, which is the entire 10-county region.

### **Total House Price Appreciation Rates by Geographic Market**

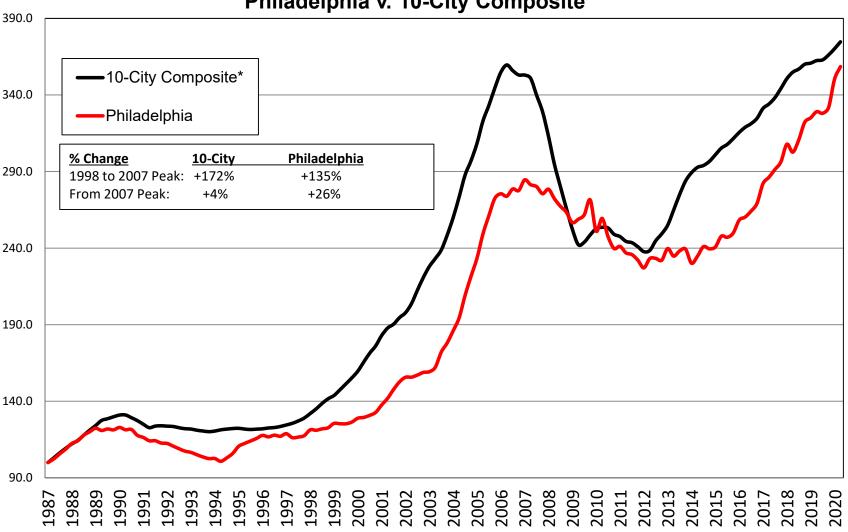
Period	Philadelphia County*	Philadelphia MSA**	U.S.A.**
40-Year	490.7%	610.0%	373.2%
10-Year	38.2%	34.2%	50.2%
1-Year	8.9%	6.7%	<b>5.</b> 7%
1-Quarter	2.4%	2.7%	1.7%

<sup>\*</sup>Empirically estimated by Kevin C. Gillen Ph.D.



<sup>\*\*</sup>Source: U.S. Federal Housing Finance Agency (FHFA). These numbers are through 2020Q1 only. "MSA"="Metropolitan Statistical Area", which is the entire 10-county region.

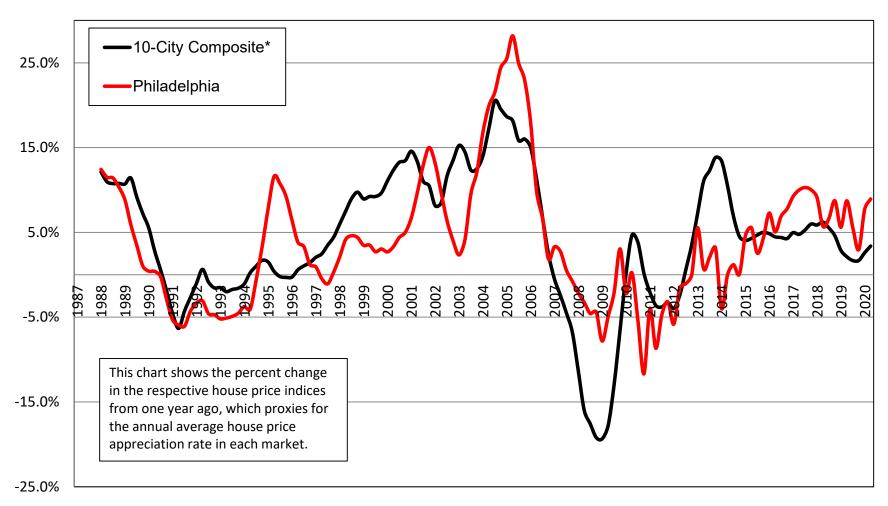
## House Price Appreciation 1987-2020: Philadelphia v. 10-City Composite



<sup>\*</sup>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.



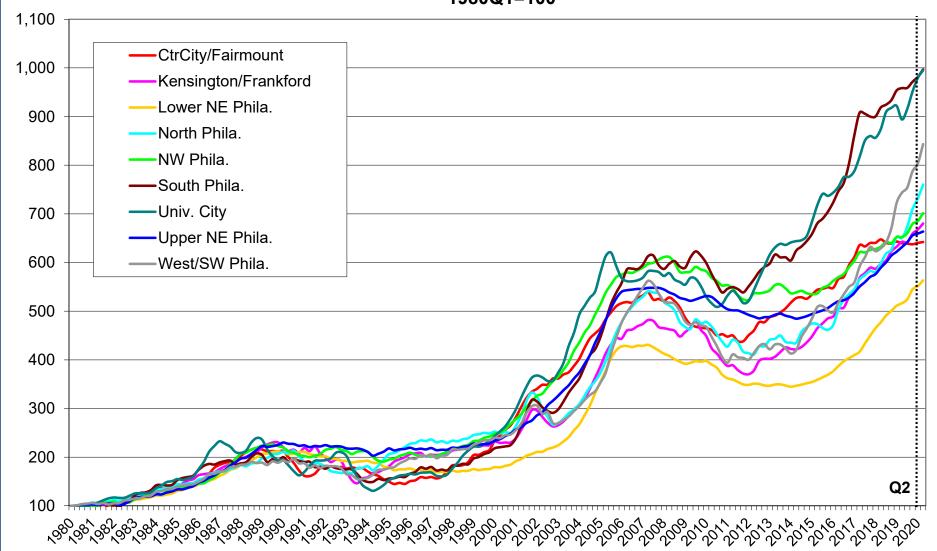
## YoY House Price Change (%) 1987-2020: Philadelphia v. 10-City Composite





<sup>\*</sup>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: 1980-2020 1980Q1=100





<sup>\*</sup> All indices empirically estimated by Kevin C. Gillen, Ph.D.

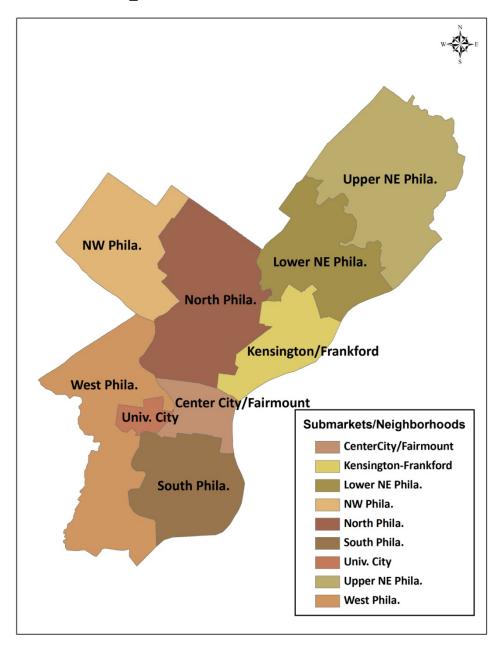
#### Philadelphia House Price Appreciation Rates by Submarket

Period	Center City/ Fairmount	Kensington /Frankford	Lower NE Phila.	North Phila.	NW Phila.	South Phila.	Univ. City	Upper NE Phila.	West/ SW Phila.
40-year	542.2%	580.3%	463.3%	660.2%	601.6%	896.8%	895.1%	563.7%	743.3%
10-year	39.2%	60.4%	44.3%	62.3%	23.4%	72.9%	92.7%	25.4%	88.5%
1-Year	0.4%	5.9%	9.1%	16.9%	<b>7.5</b> %	4.0%	11.3%	5.0%	13.4%
1-Quarter	0.3%	1.9%	2.1%	3.9%	2.4%	1.6%	1.6%	0.6%	5.0%

This table gives the total % change in average house values by submarket, through 2020 Q2, from different starting points in time.

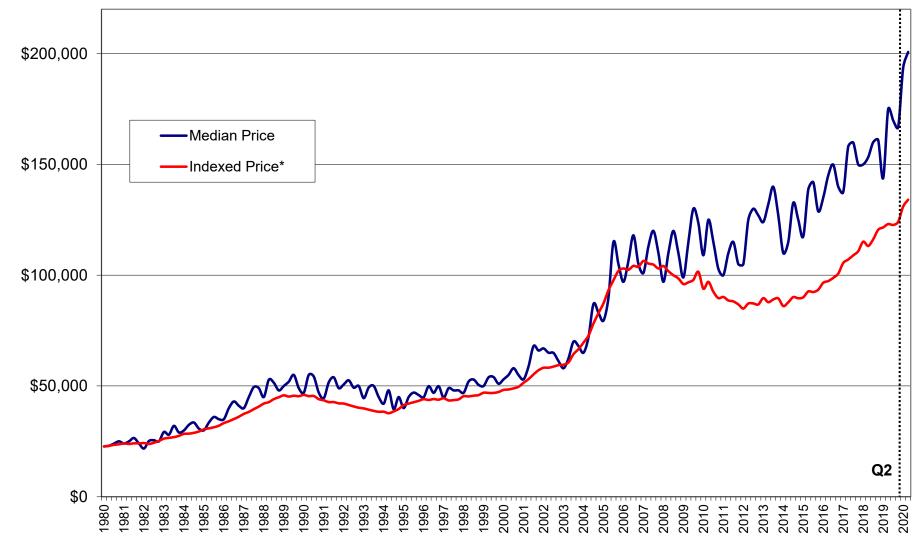


### **Philadelphia Submarket Boundaries**





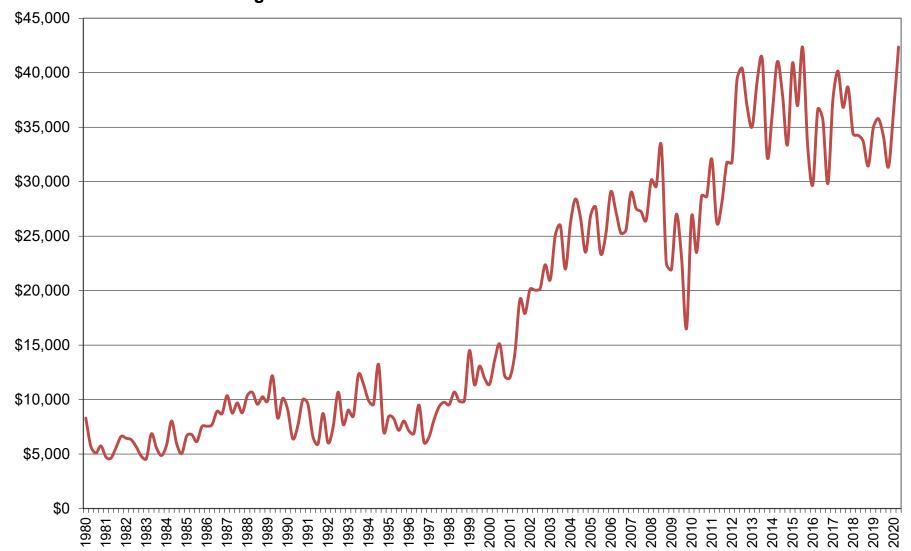
### Median Philadelphia House Price v. Indexed Philadelphia House Price 1980-2020





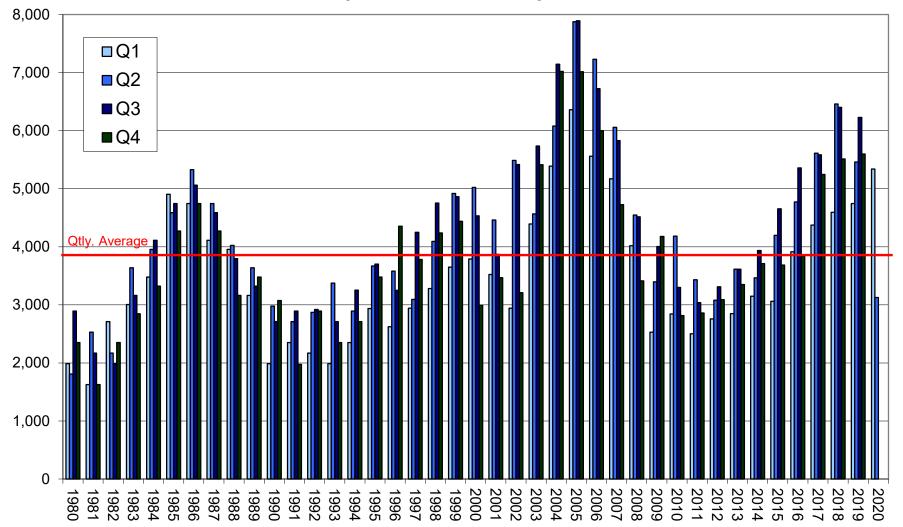


#### **Average House Price Minus Median House Price: 1980-2020**



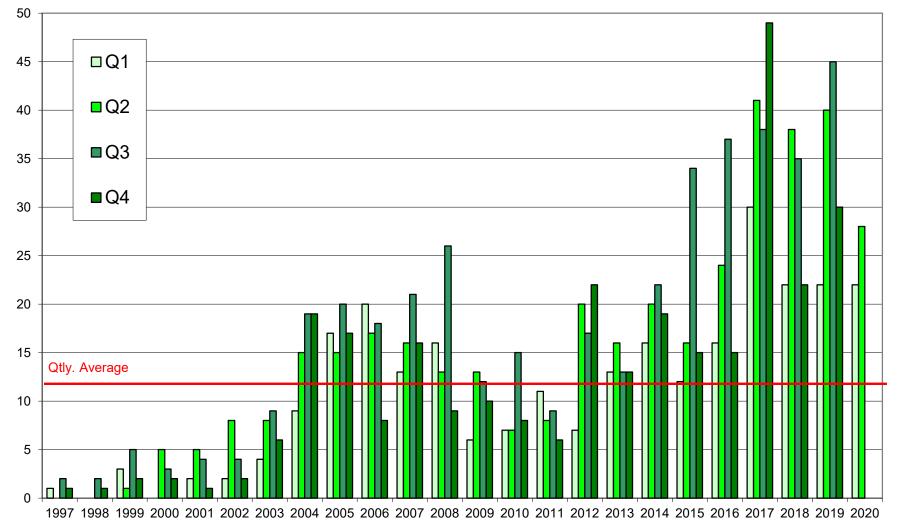


#### Number of Philadelphia House Sales\* per Quarter: 1980-2020





## Number of Philadelphia House Sales\* per Quarter with Price>=\$1 Million: 1997-2020

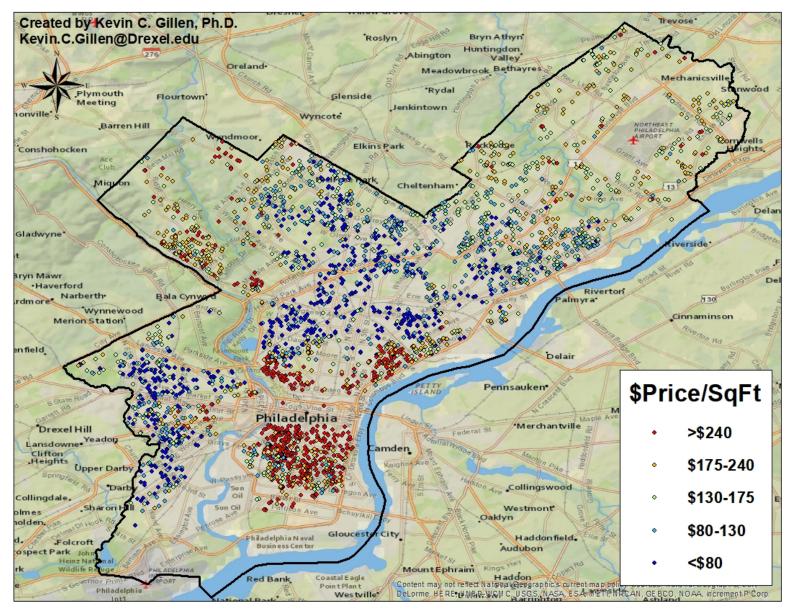








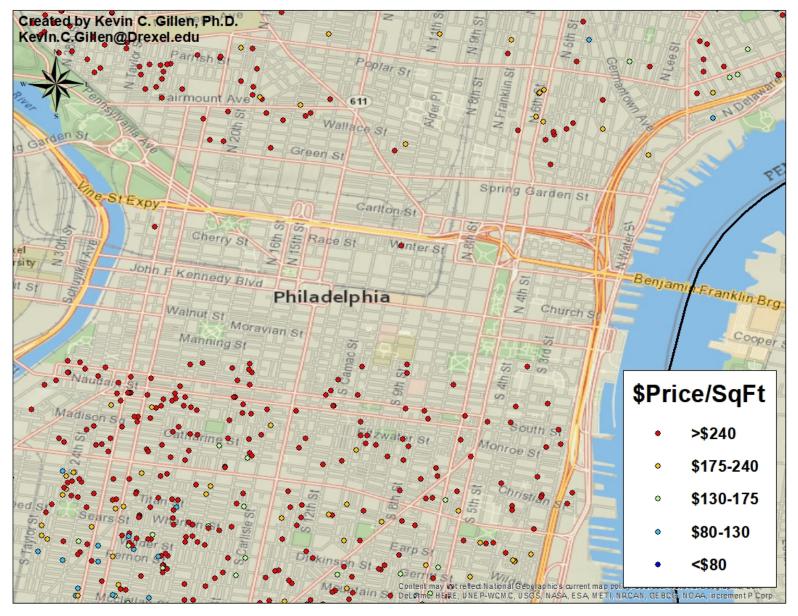
#### Philadelphia House Sales in 2020 Q2



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.

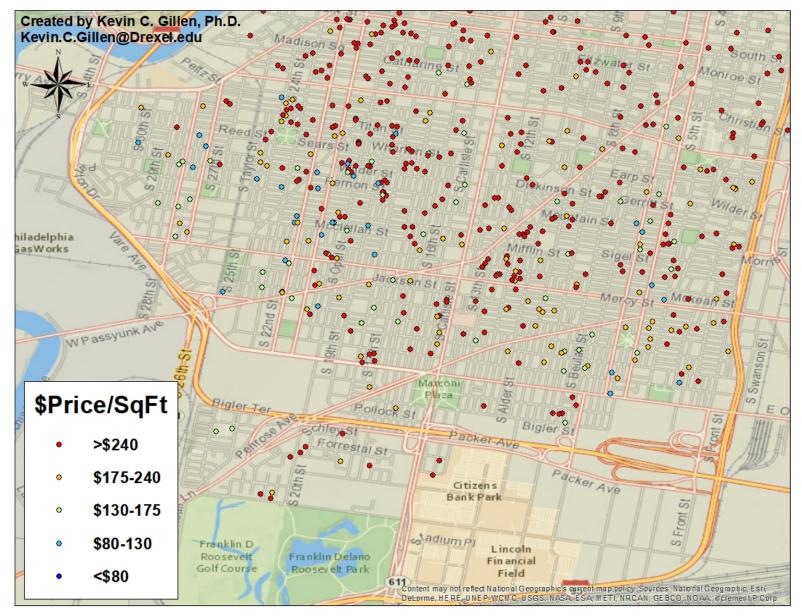


### **Center City House Sales in 2020 Q2**

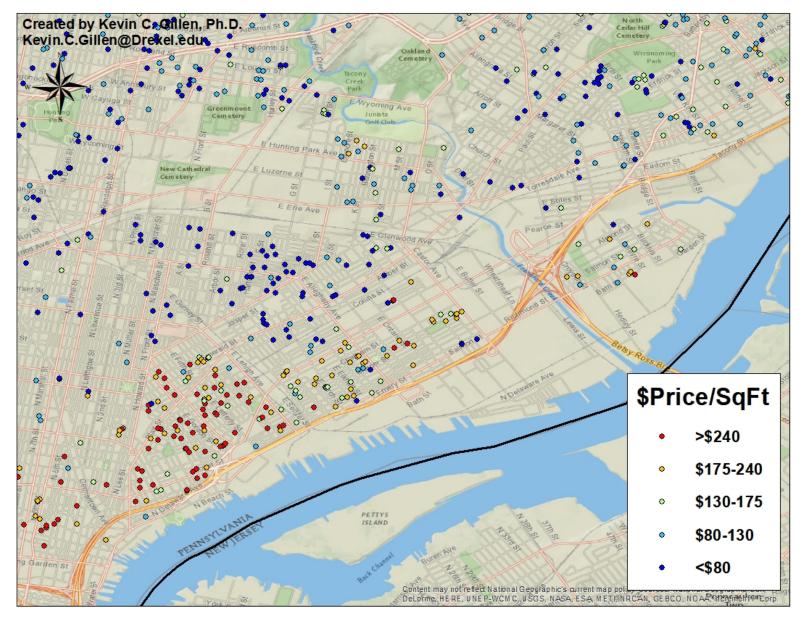




#### South Philadelphia House Sales in 2020 Q2

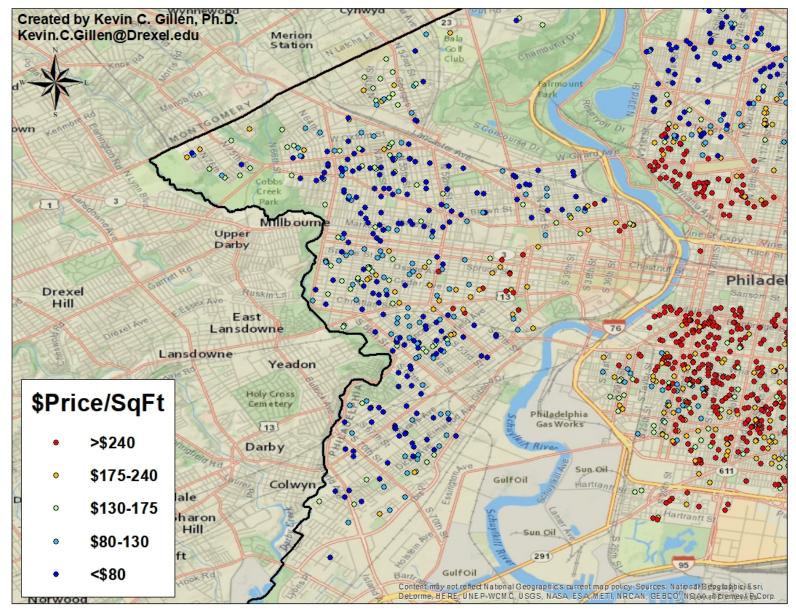


### Kensington/Frankford House Sales in 2020 Q2

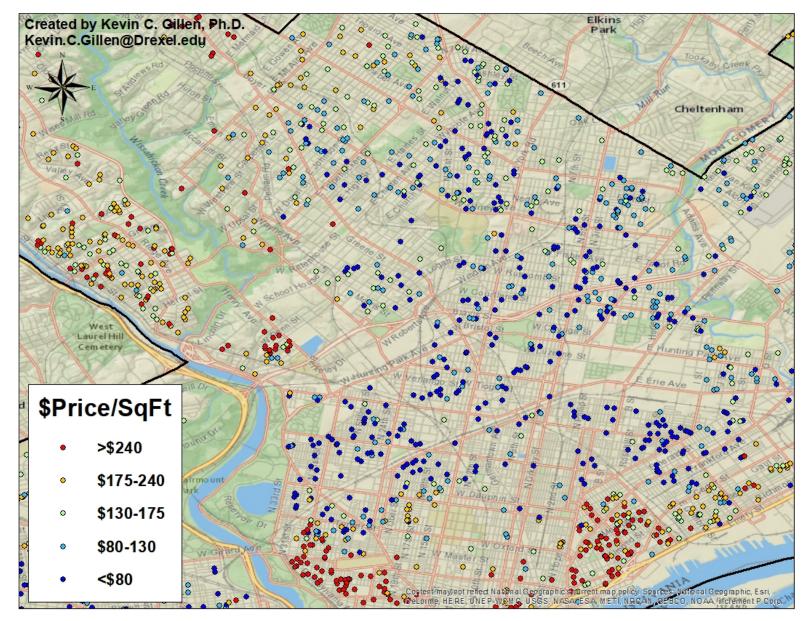




#### West/Southwest Philadelphia House Sales in 2020 Q2

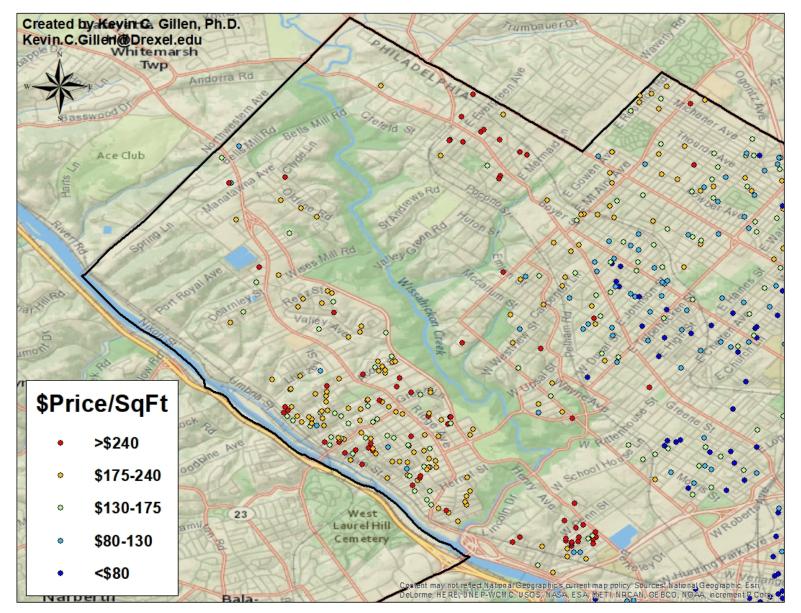


### North Philadelphia House Sales in 2020 Q2



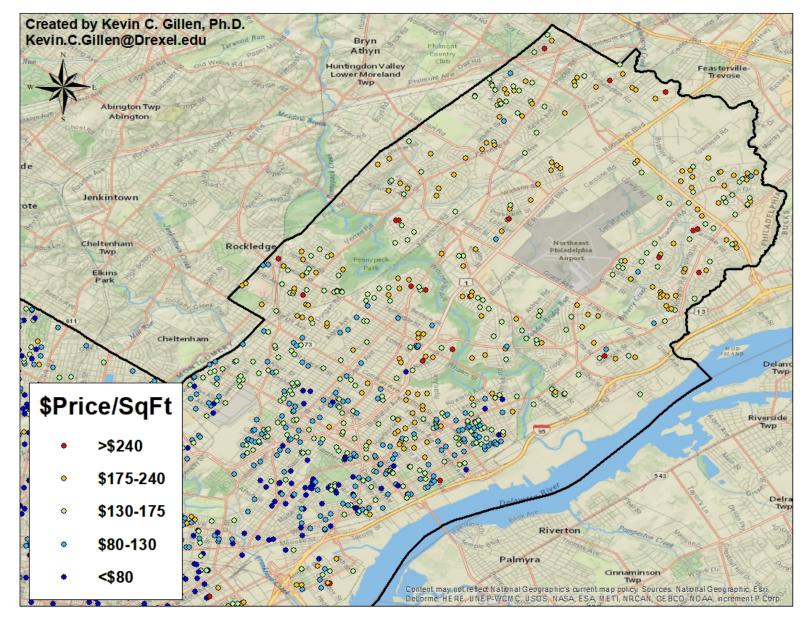


### Northwest Philadelphia House Sales in 2020 Q2

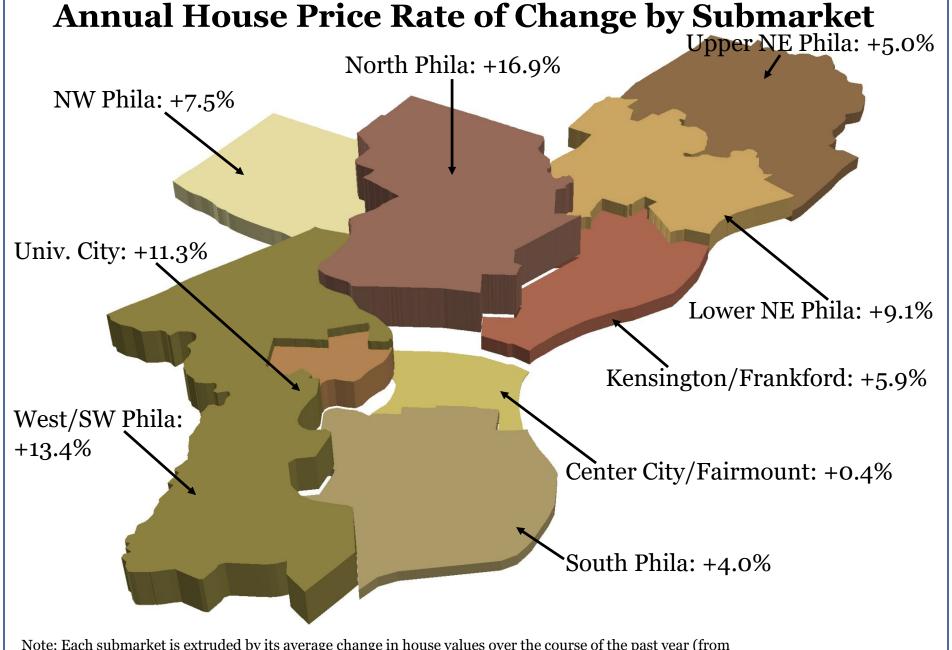




### Northeast Philadelphia House Sales in 2020 Q2



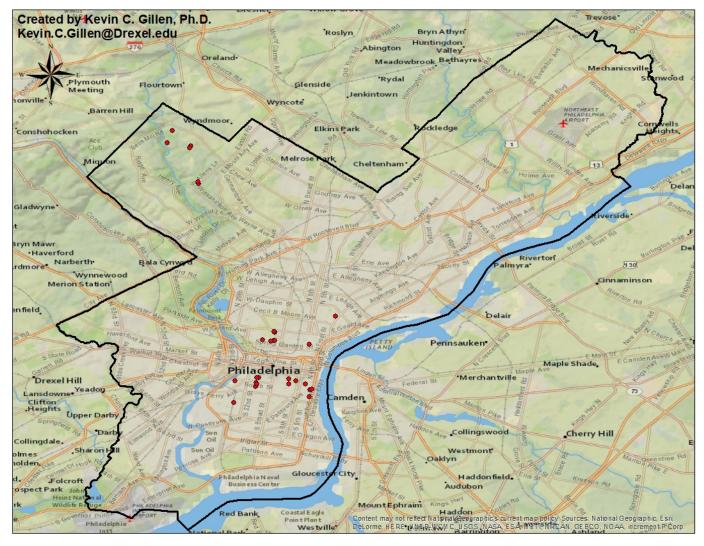




Note: Each submarket is extruded by its average change in house values over the course of the past year (from 2019 Q2 to 2020 Q2) in order to reflect its growth (or depreciation) rate relative to other neighborhoods.



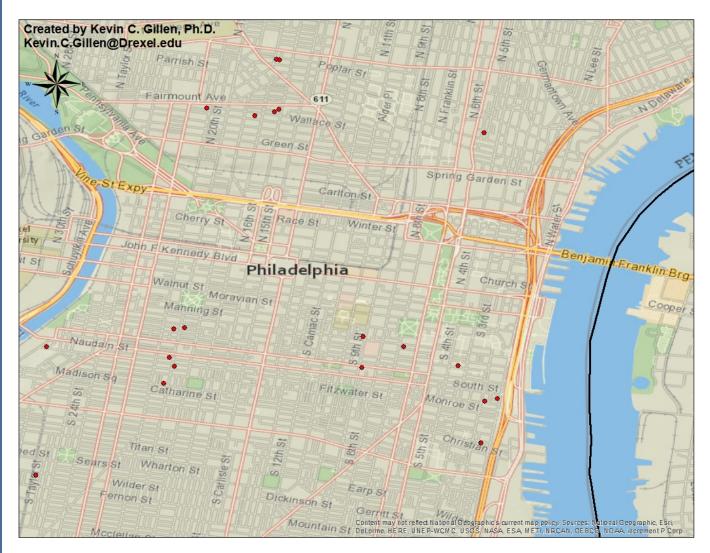
#### +\$1 Million Dollar House Sales in 2020 Q2



Price	Address
\$1,000,000	2152 E NORRIS ST
\$1,000,000	1911 KATER ST
\$1,025,000	1914 PANAMA ST
\$1,050,000	819 N ORKNEY ST
\$1,075,000	2007 NORTH ST
\$1,075,000	1642 CAMBRIDGE ST
\$1,085,000	1634 CAMBRIDGE ST
\$1,140,000	120 QUEEN ST
\$1,150,000	705 S 19TH ST
\$1,151,830	129 BAINBRIDGE ST
\$1,165,000	630 S 27TH ST
\$1,175,000	636 N 16TH ST
\$1,200,000	737 W ALLENS LN
\$1,200,000	9001 CREFELD ST
\$1,200,000	1717 WALLACE ST
\$1,240,000	1501 S 25TH ST
\$1,287,500	632 SPRUCE ST
\$1,330,000	264 S 9TH ST
\$1,400,000	1619 NORTH ST
\$1,432,000	8316 NAVAJO ST
\$1,450,000	1905 CATHARINE ST
\$1,475,000	610 S FRONT ST
\$1,475,000	714 SAINT GEO RD
\$1,500,000	8216 SEMINOLE AVE
\$1,649,000	838 LOMBARD ST
\$1,950,000	319 PINE ST
\$2,500,000	8872 TOWANDA AVE
\$3,325,000	1830 DELANCEY PL



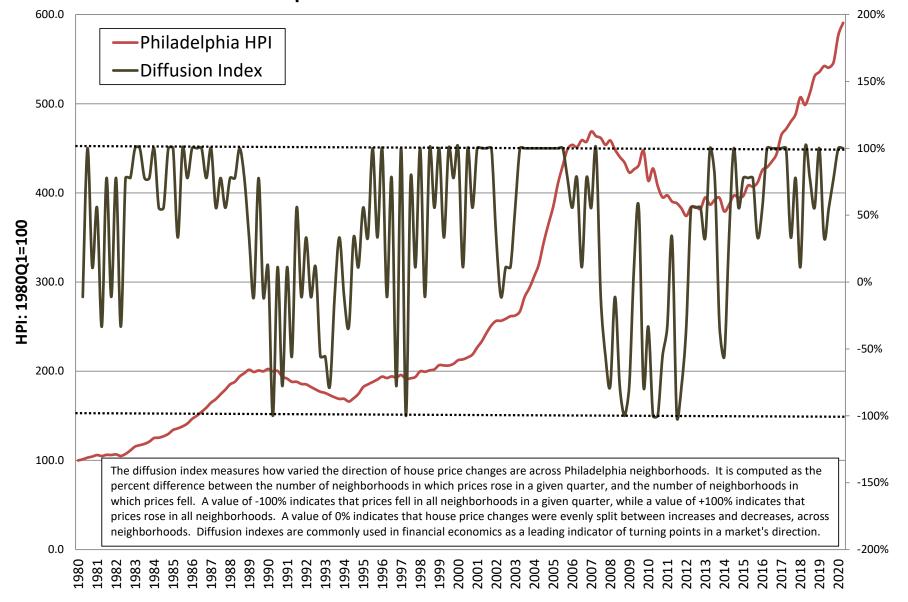
#### +\$1 Million Dollar House Sales in 2020 Q2



Price	Address
\$1,000,000	2152 E NORRIS ST
\$1,000,000	1911 KATER ST
\$1,025,000	1914 PANAMA ST
\$1,050,000	819 N ORKNEY ST
\$1,075,000	2007 NORTH ST
\$1,075,000	1642 CAMBRIDGE ST
\$1,085,000	1634 CAMBRIDGE ST
\$1,140,000	120 QUEEN ST
\$1,150,000	705 S 19TH ST
\$1,151,830	129 BAINBRIDGE ST
\$1,165,000	630 S 27TH ST
\$1,175,000	636 N 16TH ST
\$1,200,000	737 W ALLENS LN
\$1,200,000	9001 CREFELD ST
\$1,200,000	1717 WALLACE ST
\$1,240,000	1501 S 25TH ST
\$1,287,500	632 SPRUCE ST
\$1,330,000	264 S 9TH ST
\$1,400,000	1619 NORTH ST
\$1,432,000	8316 NAVAJO ST
\$1,450,000	1905 CATHARINE ST
\$1,475,000	610 S FRONT ST
\$1,475,000	714 SAINT GEO RD
\$1,500,000	8216 SEMINOLE AVE
\$1,649,000	838 LOMBARD ST
\$1,950,000	319 PINE ST
\$2,500,000	8872 TOWANDA AVE
\$3,325,000	1830 DELANCEY PL

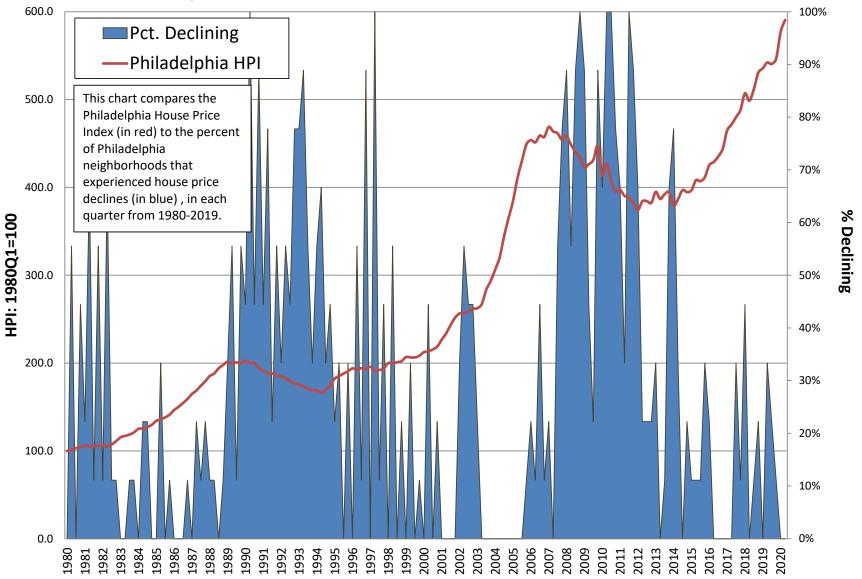


#### Philadelphia House Price Diffusion Index 1980-2020



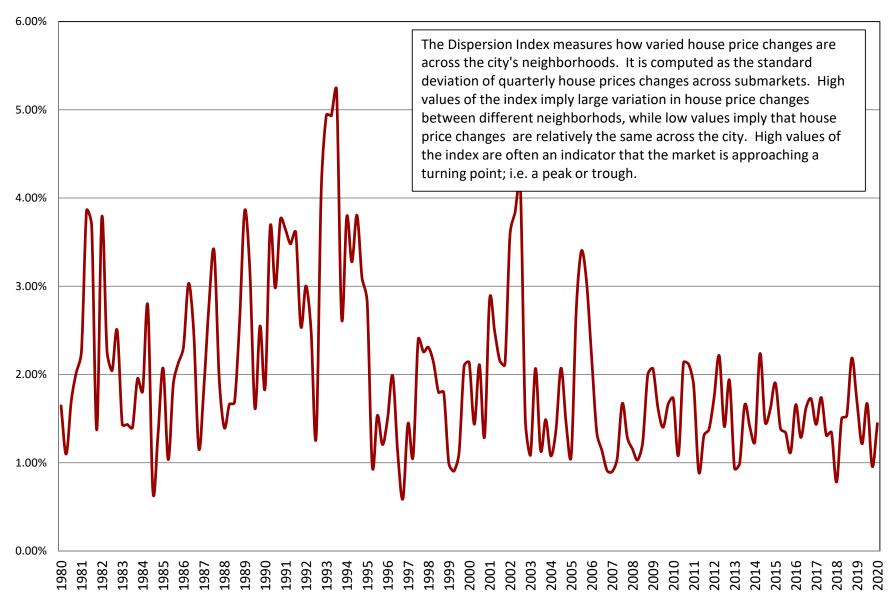


#### Philadelphia House Prices 1980-2020: Declines v. House Price Index



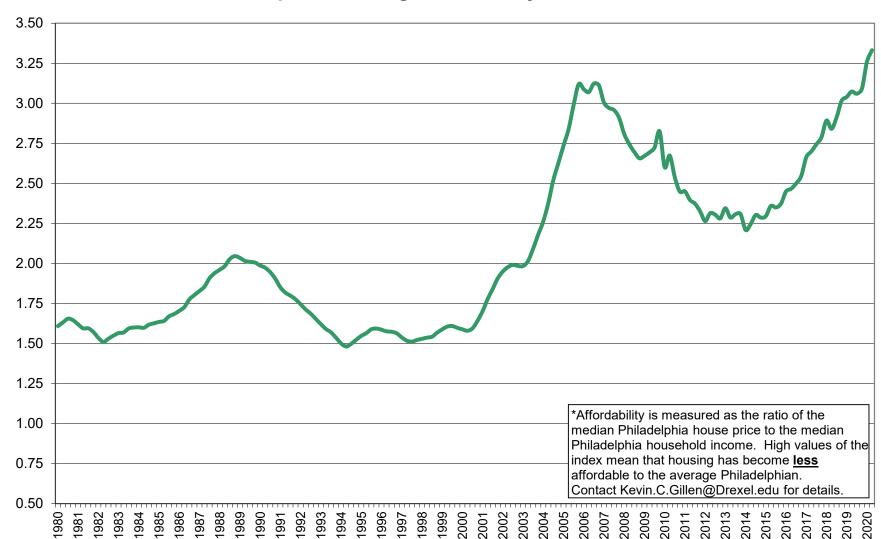


#### **Dispersion Index of Philadelphia Housing**



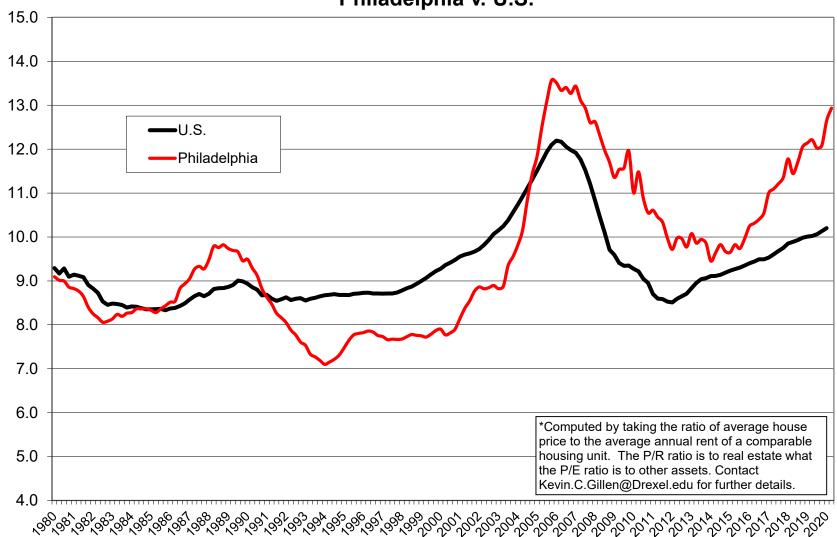


#### Philadelphia Housing Affordability\* Index: 1980-2020



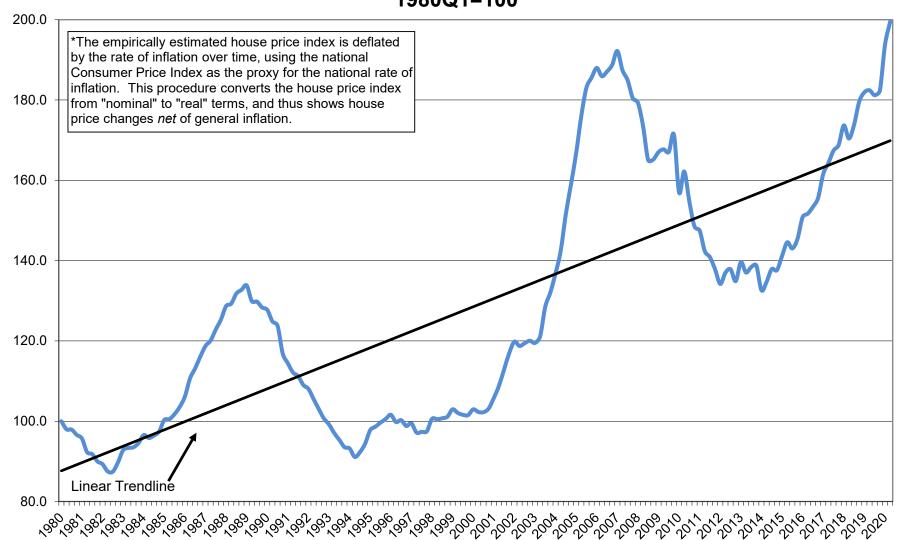


## Average House Price-to-Rent Ratios\*: 1980-2020 Philadelphia v. U.S.



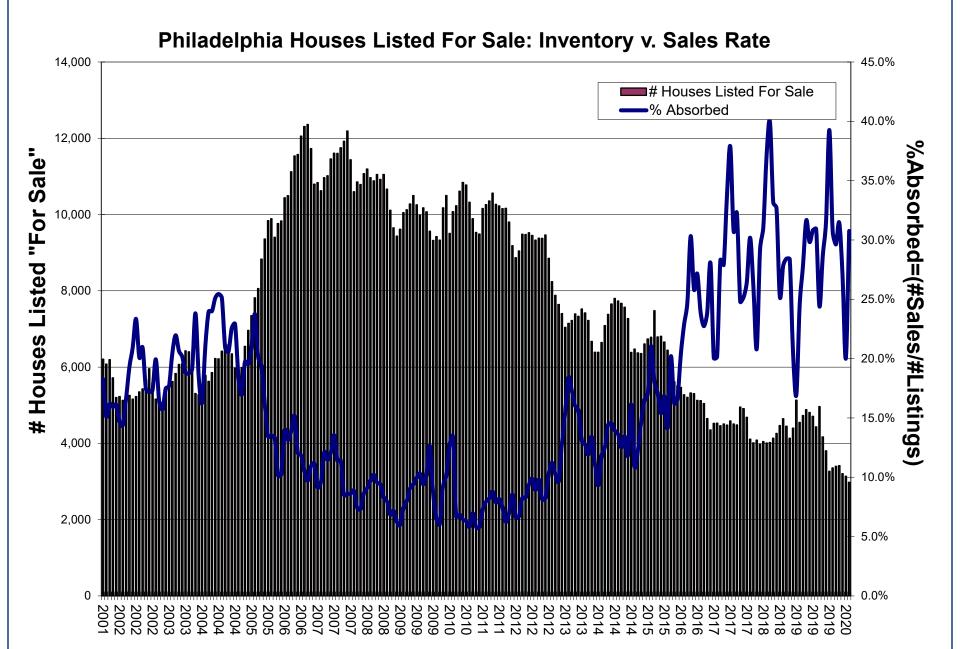


## Inflation-Adjusted\* Philadelphia House Price Index 1980-2020 1980Q1=100



Source: US Bureau of Labor Statistics

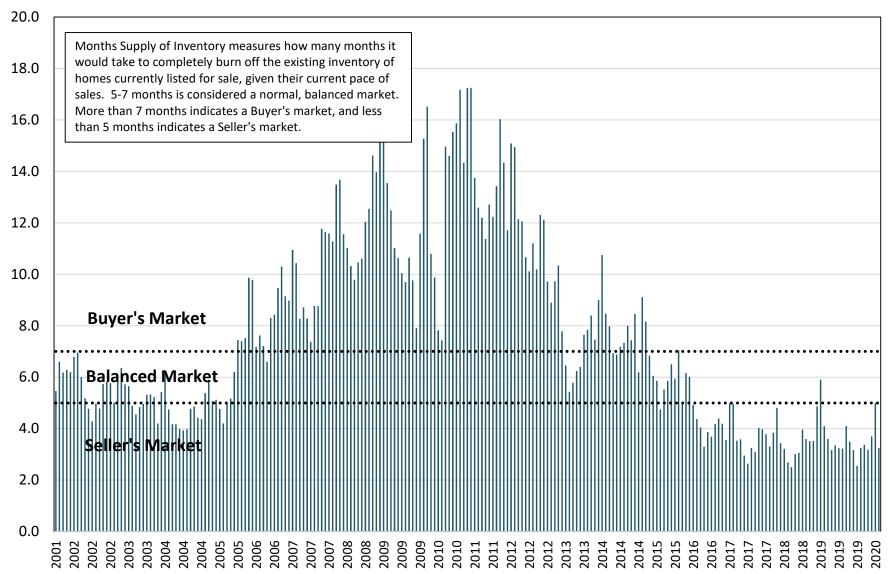




"%Absorbed" is defined as the percent of homes listed for sale in a given month that also sold in that same month.

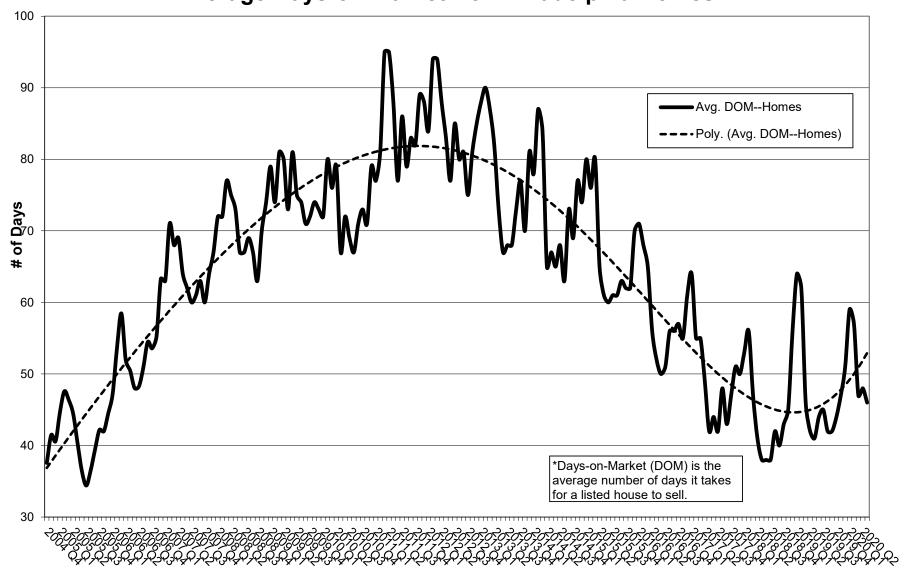


#### Months Supply of Inventory in Philadelphia



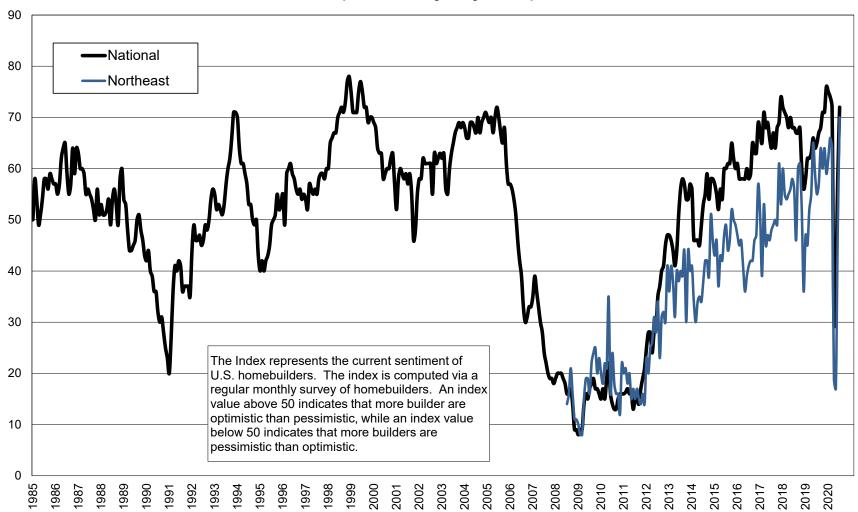


#### **Average Days-on-Market\* for Philadelphia Homes**





### Index of Homebuilder Sentiment: 1985-2020 (Seasonally Adjusted)



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



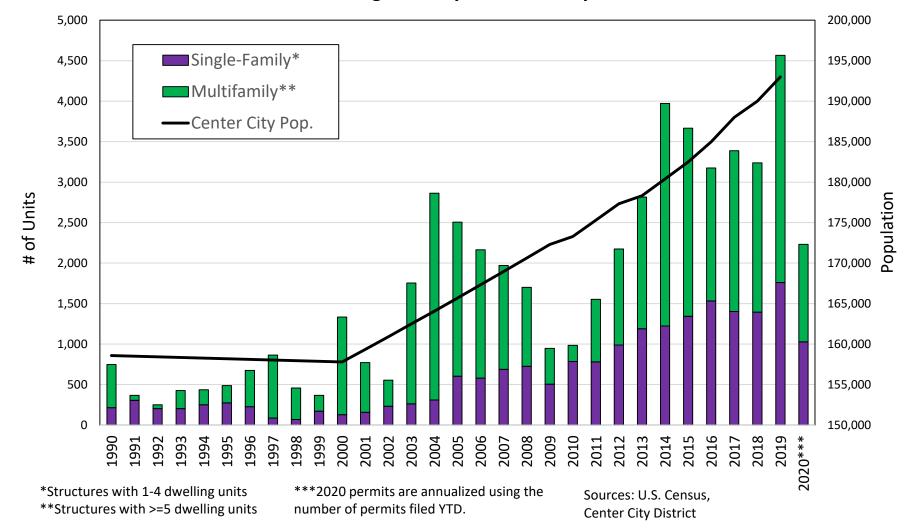
#### Philadelphia Stock Exchange Housing Sector Index: 2002-2020



Source: finance.yahoo.com



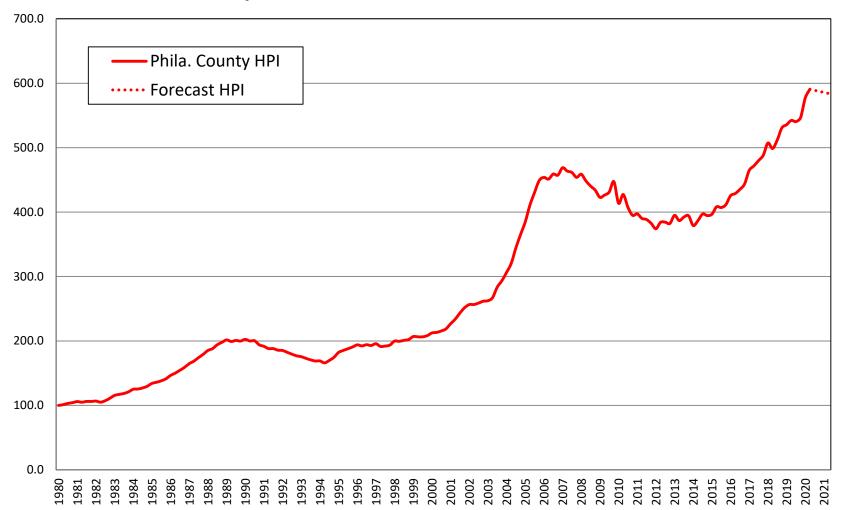
## Building Permits Issued for Construction of Residential Units in Philadelphia 1990-2020: Single-Family v. Multifamily





### Philadelphia House Price Index and 1-Year Forecast

Philadelphia House Price Index: Actual v. Forecast



Zillow's most recent forecast of Philadelphia house prices has remained negative. It is currently projecting a decline of 1.1% over the next 12 months, which is the same forecast that is was projecting last quarter.

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

