PHILADELPHIA HOUSE PRICE INDICES

February 24, 2021



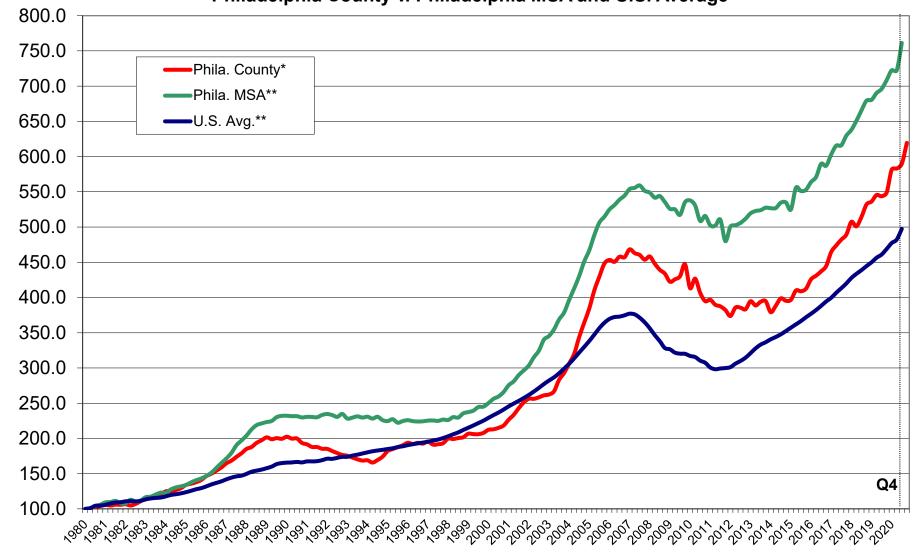
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House Price Indices 1980-2020: 1980Q1=100 Philadelphia County v. Philadelphia MSA and U.S. Average



^{*} 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 2020Q3 only.

Total House Price Appreciation Rates by Geographic Market

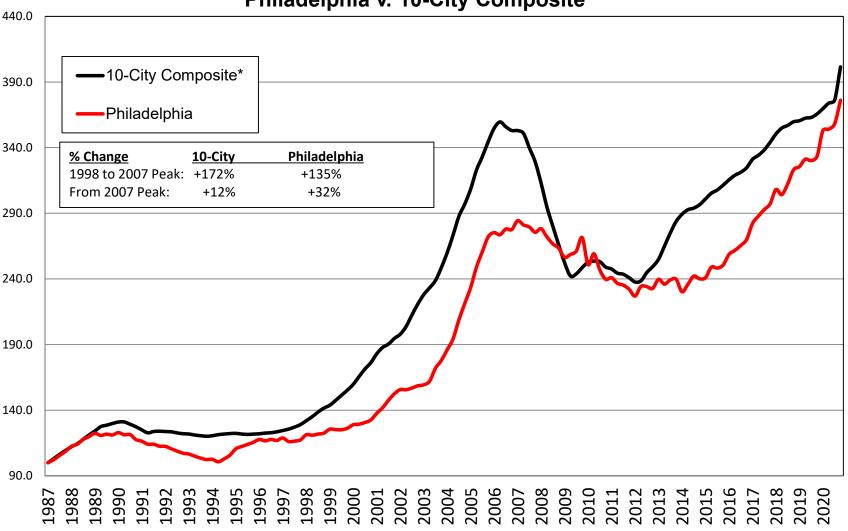
Period	Philadelphia County*	Philadelphia MSA**	U.S.A.**
40-Year	519.4%	661.3%	397-4%
10-Year	56.9%	49.7%	60.2%
1-Year	12.8%	9.4%	7.9%
1-Quarter	5.0%	5.4%	3.1%

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



^{**}Source: U.S. Federal Housing Finance Agency (FHFA). These numbers are through 2020Q3 only. "MSA"="Metropolitan Statistical Area", which is the entire 10-county region.

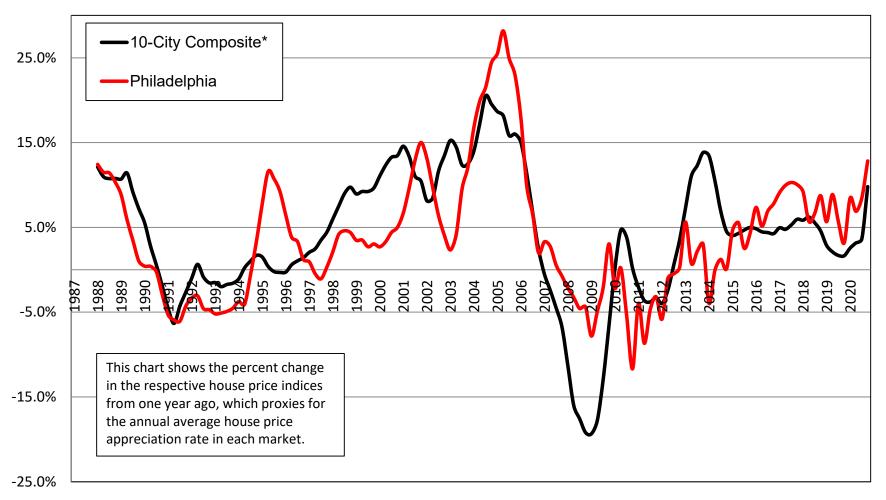
House Price Appreciation 1987-2020: Philadelphia v. 10-City Composite





^{*}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.

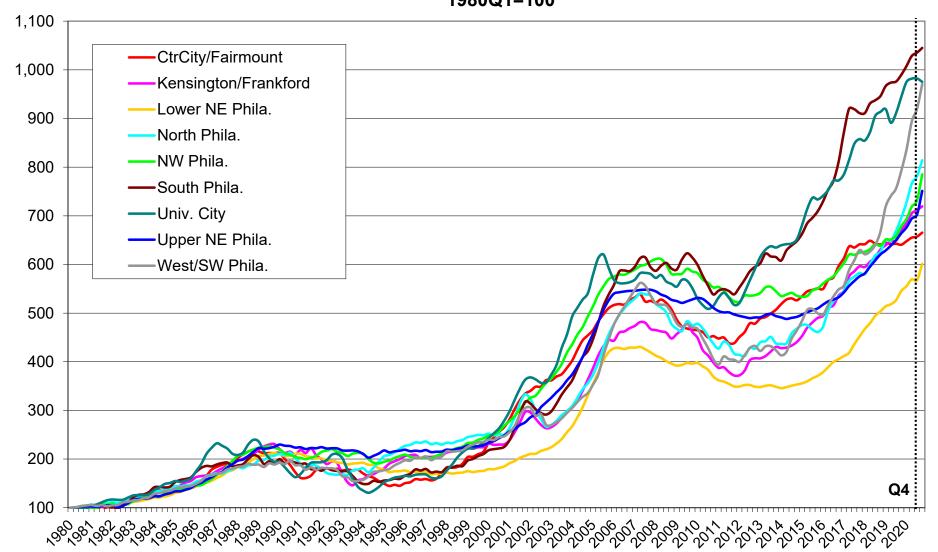
YoY House Price Change (%) 1987-2020: Philadelphia v. 10-City Composite





^{*}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: 1980-2020 1980Q1=100





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

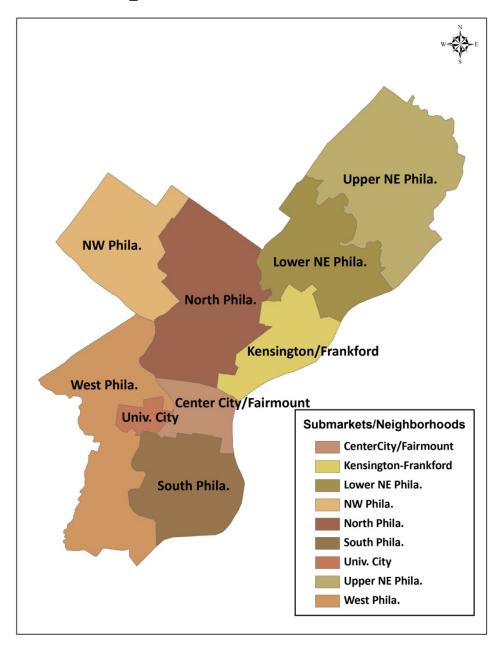
Philadelphia House Price Appreciation Rates by Submarket

Period	Center City/ Fairmount	Kensington /Frankford	Lower NE Phila.	North Phila.	NW Phila.	South Phila.	Univ. City	Upper NE Phila.	West/ SW Phila.
40-year	565.4%	619.4%	501.4%	714.2%	685.2%	945.1%	875.3%	651.2%	870.7%
10-year	47.0%	80.5%	62. 7%	86.1%	42.1%	94.1%	89.5%	47.0%	139.2%
1-Year	3.9%	7.4%	10.2%	17.0%	15.7%	5.6%	3.2%	13.1%	22.4%
1-Quarter	1.2%	1.1%	6.0%	4.2%	7.4%	0.9%	-0.7%	6.9%	5.5%

This table gives the total % change in average house values by submarket, through 2020 Q4, from different starting points in time.

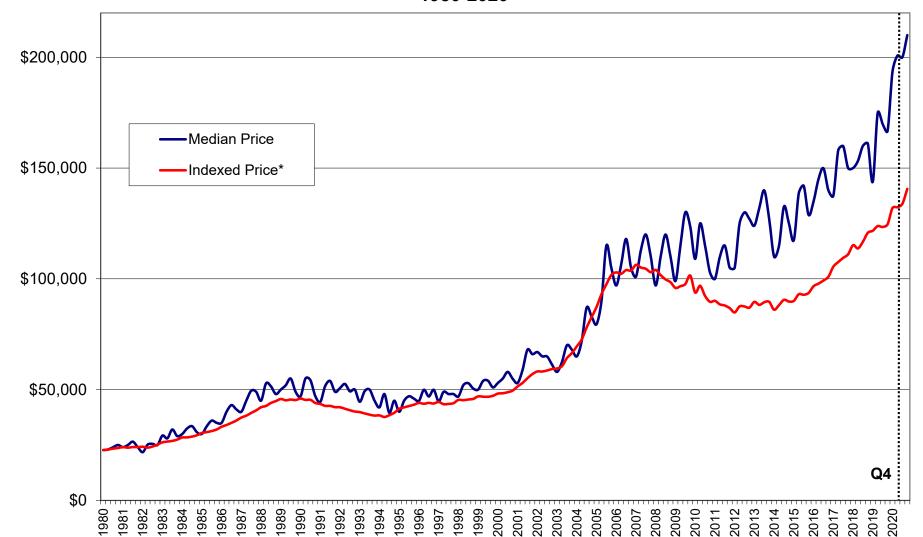


Philadelphia Submarket Boundaries





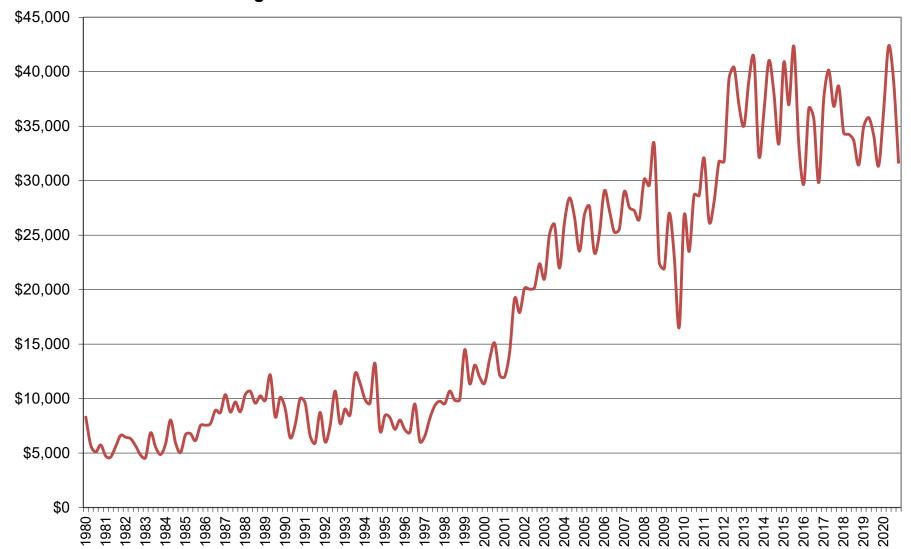
Median Philadelphia House Price v. Indexed Philadelphia House Price 1980-2020



^{*} Empirically estimated by Kevin C. Gillen, PhD © 2021 Drexel University | Kevin.C.Gillen@Drexel.edu

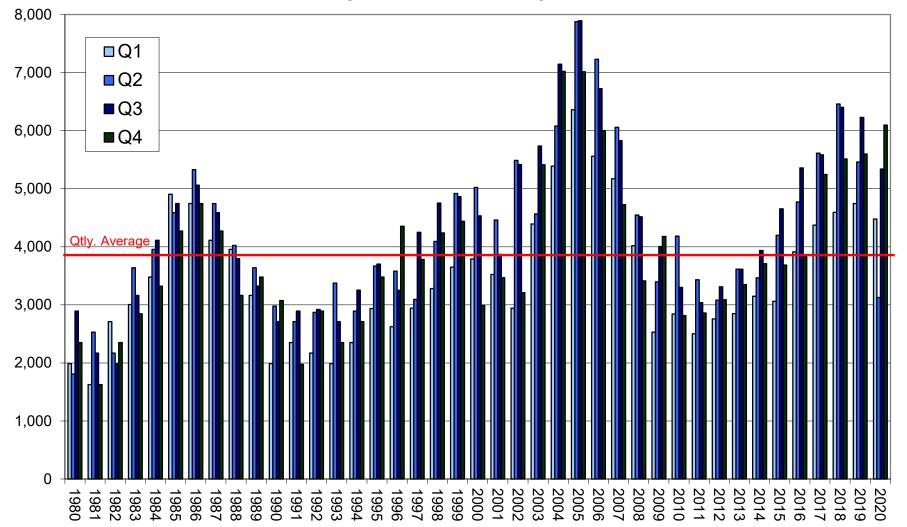


Average House Price Minus Median House Price: 1980-2020



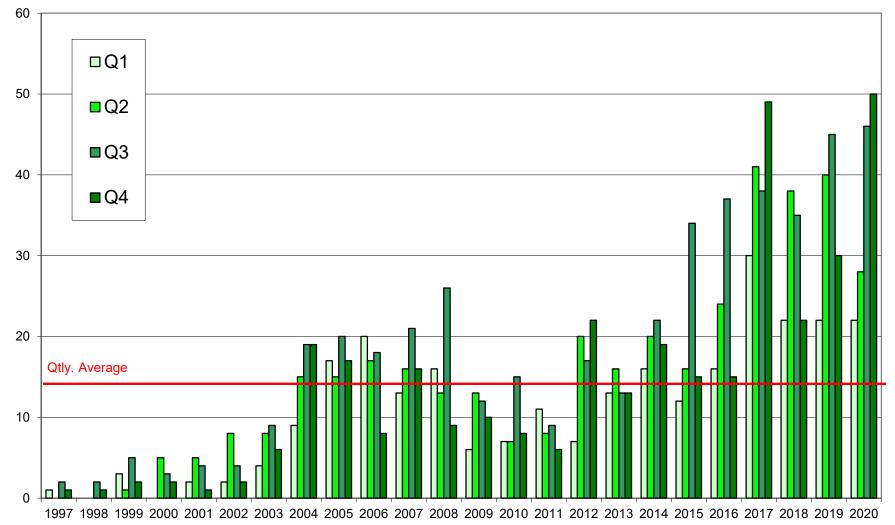


Number of Philadelphia House Sales* per Quarter: 1980-2020





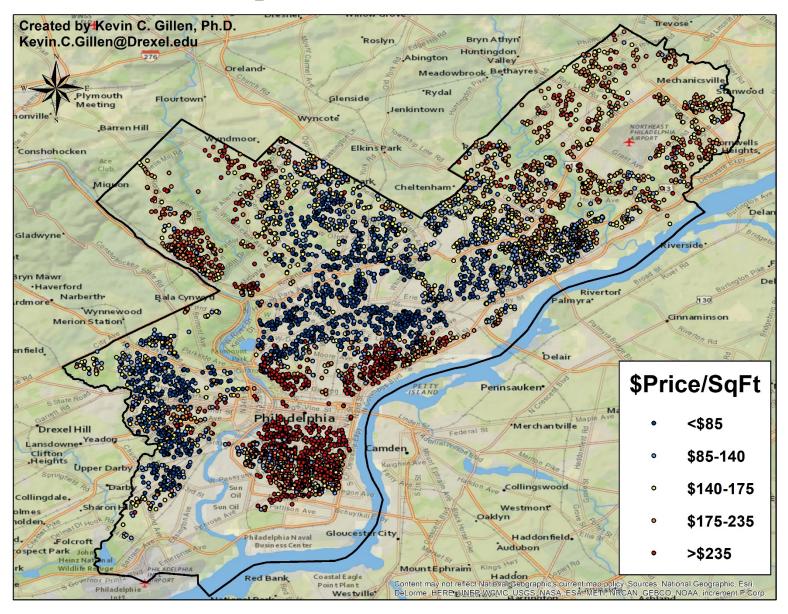
Number of Philadelphia House Sales* per Quarter with Price>=\$1 Million: 1997-2020





^{*}Only arms-length transactions between private sector entities were included in these numbers.

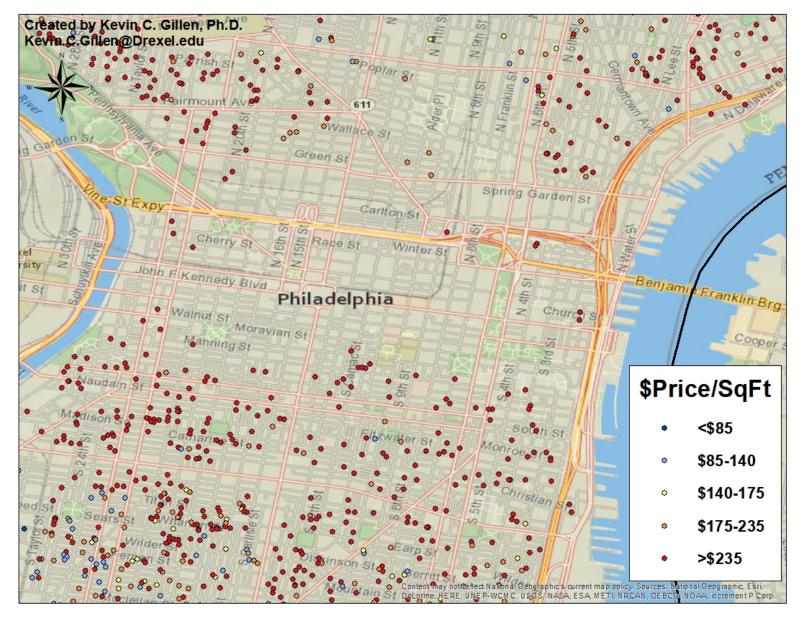
Philadelphia House Sales in 2020 Q4



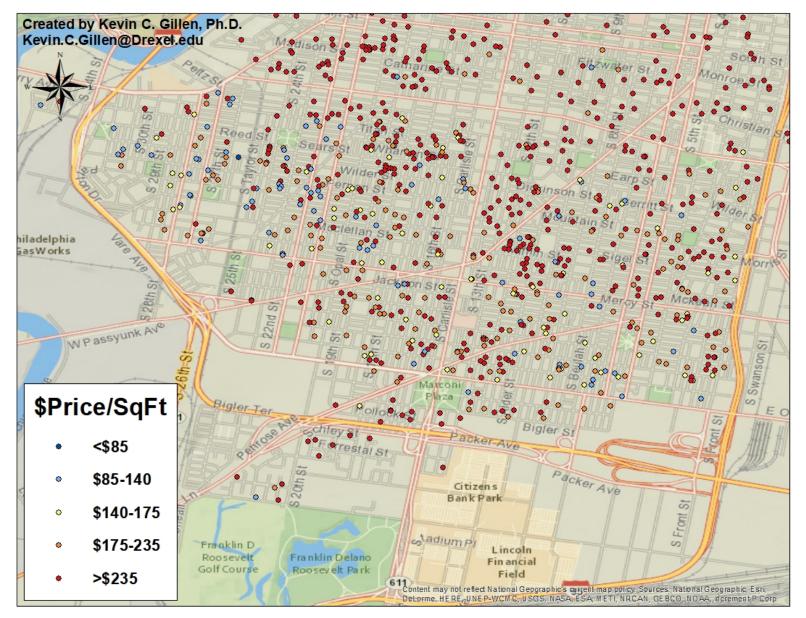
Note: Sales are color-coded by the quintiles of the distribution of \$Price/SqFt. Hence, each of the five categories covers exactly 20% of all sales.



Center City House Sales in 2020 Q4

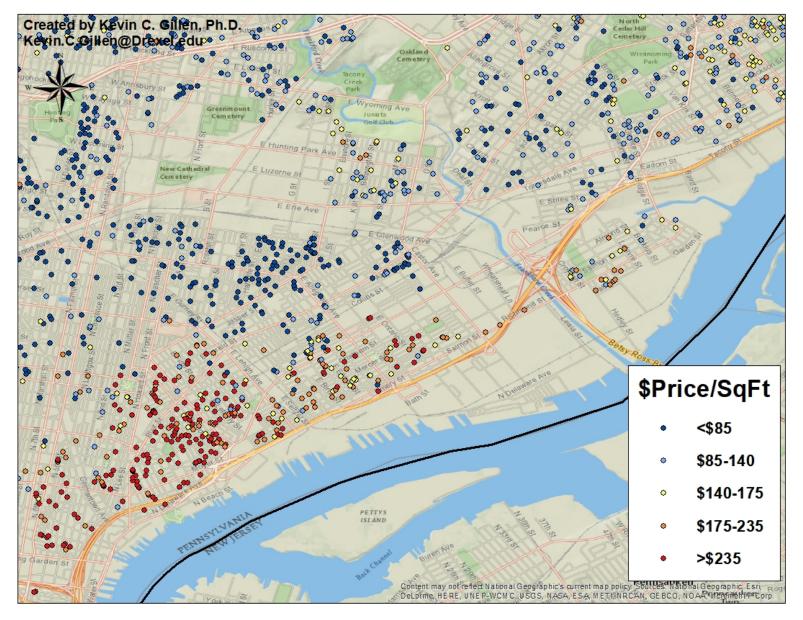


South Philadelphia House Sales in 2020 Q4



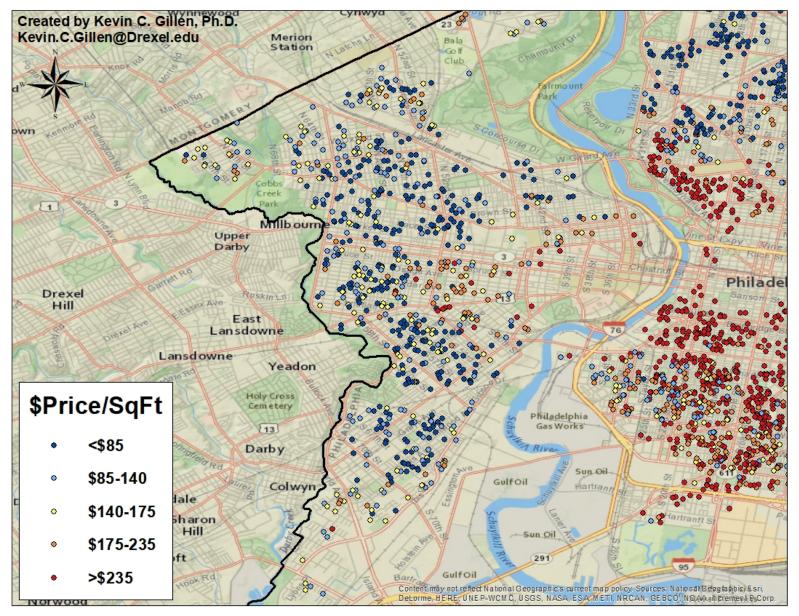


Kensington/Frankford House Sales in 2020 Q4



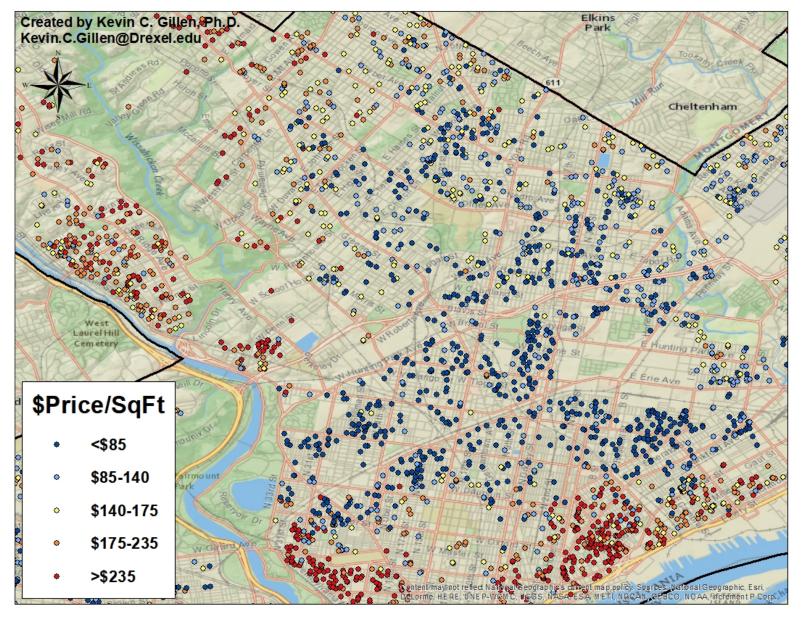


West/Southwest Philadelphia House Sales in 2020 Q4



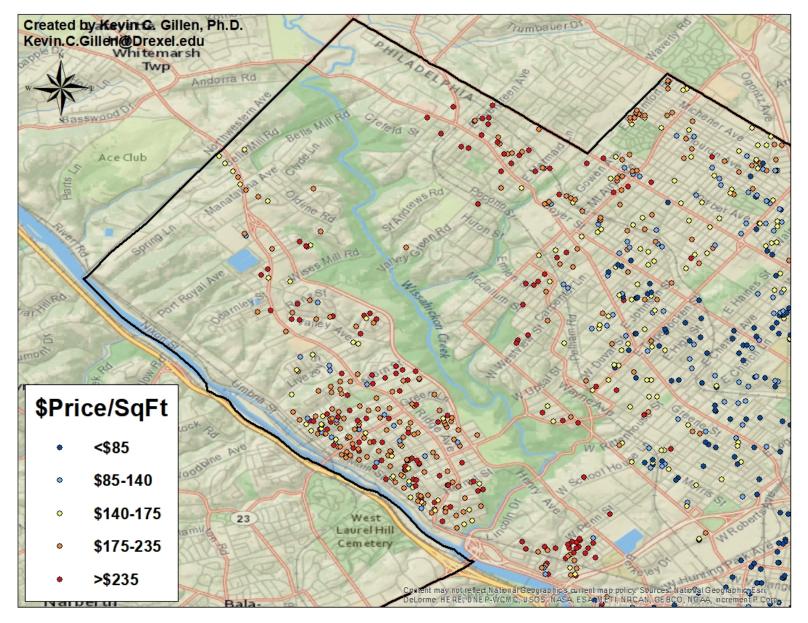


North Philadelphia House Sales in 2020 Q4



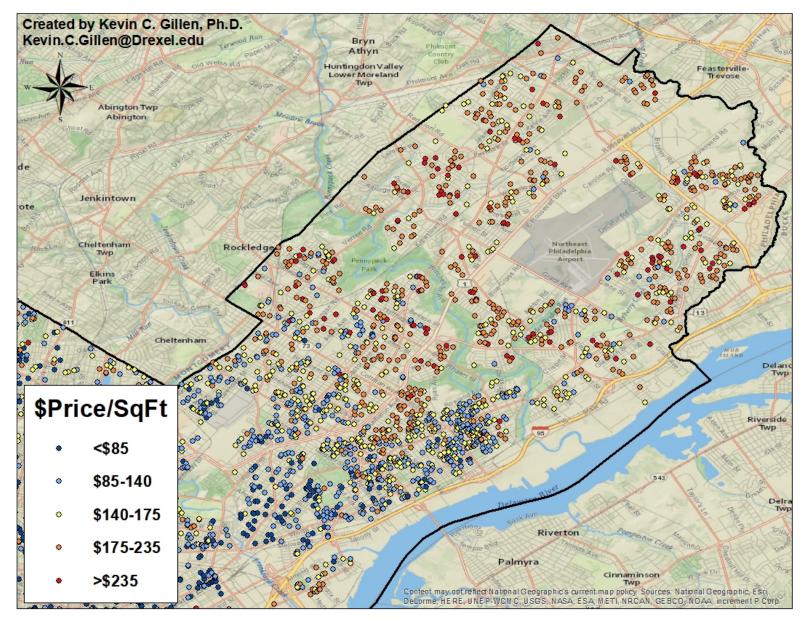


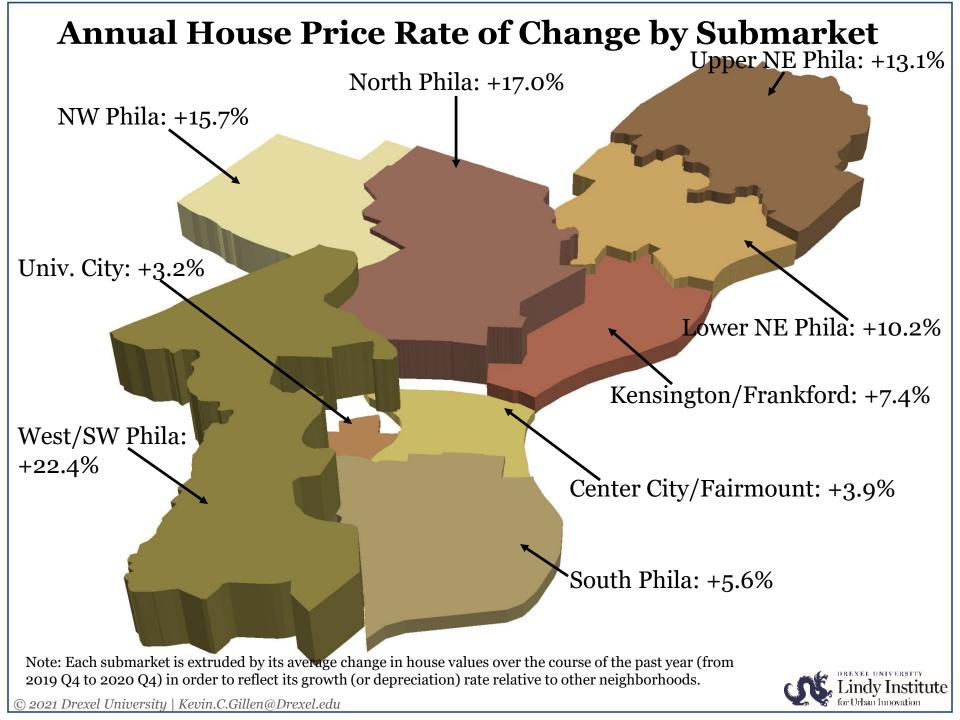
Northwest Philadelphia House Sales in 2020 Q4



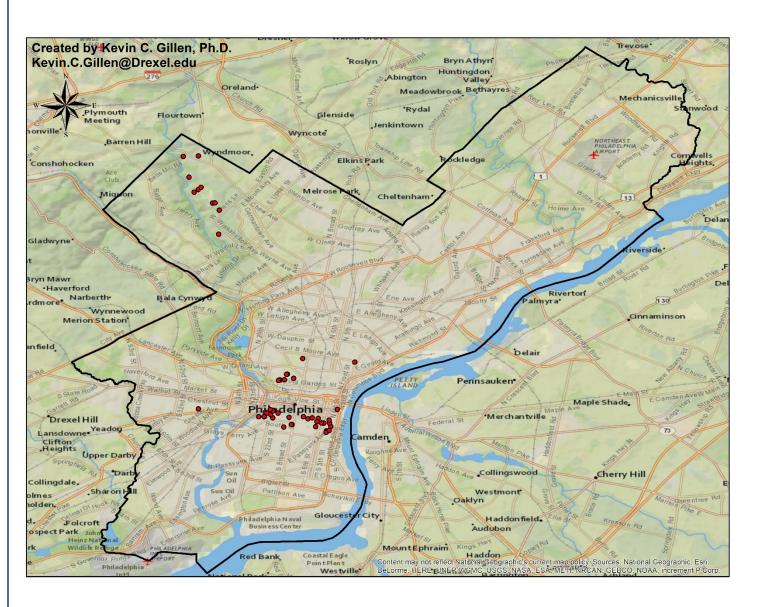


Northeast Philadelphia House Sales in 2020 Q4





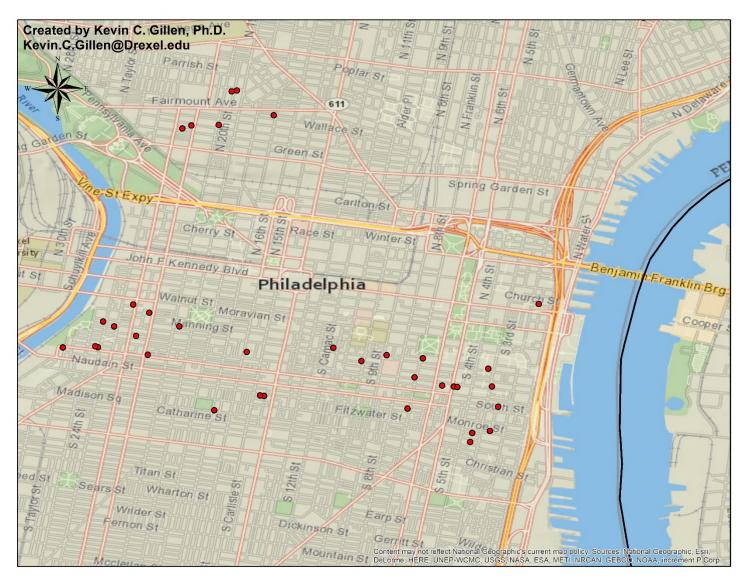
+\$1 Million Dollar House Sales in 2020 Q4



PRICE	ADDRESS	
\$1,000,000	1939 MOUNT VERN ST	
\$1,000,000	769 S 17TH ST	
\$1,007,000	416 S 24TH ST	
\$1,015,000	430 S 46TH ST	
\$1,025,000	434 PINE ST	
\$1,050,000	327 S 16TH ST	
\$1,100,000	2104 MOUNT VERN ST	
\$1,100,000	500 S TANEY ST	
\$1,137,500	300 S 10TH ST	
\$1,150,000	767 N UBER ST	
\$1,175,000	31 E COLUMBIA AVE	
\$1,205,000	210 GASKILL ST	
\$1,207,500	606 W MERMAID LN	
\$1,249,000	7614 CHEROKEE ST	
\$1,250,000	251 S 7TH ST	
\$1,285,000	1420 BAINBRIDGE ST	
\$1,300,000	267 S 9TH ST	
\$1,302,500	766 N UBER ST	
\$1,325,000	313 PEMBERTON ST	
\$1,325,000	644 N 17TH ST	
\$1,325,000	2125 GREEN ST	
\$1,360,000	2406 WAVERLY ST	
\$1,375,000	1430 BAINBRIDGE ST	
\$1,400,000	1108 MANNING ST	
\$1,439,000	2405 SPRUCE ST	
\$1,450,000	618 S 7TH ST	
\$1,500,000	318 FITZWATER ST	
\$1,500,000	2109 LOCUST ST	
\$1,520,000	7 CARYL LN	
\$1,548,400	1520 N SYDENHAM ST	
\$1,559,000	2203 SAINT JAME PL	
\$1,600,000	701 PINE ST	
\$1,642,500	2057 LOMBARD ST	
\$1,695,000	2304 SPRUCE ST	
\$1,760,000	601 SAINT GEOR RD	
\$1,800,000	255 PINE ST	
\$1,800,000	6935 SCOTFORTH RD	
\$1,875,000	424 PINE ST	
\$1,927,500	231 MONROE ST	
\$1,975,000	311 SPRUCE ST	
\$1,985,000	1931 MANNING ST	
\$2,000,000	522 PINE ST	
\$2,000,000	119 CHURCH ST	
\$2,175,000	2119 DELANCEY PL	
\$2,273,000	710 GLENGARRY RD	
\$2,500,000	613 SAINT ANDR RD	
\$2,500,000	15 W BELLS MILL RD	
\$3,100,000	8840 TOWANDA AVE	
\$3,200,000	609 SAINT ANDR RD	
DREXEL UNIVERSITY		



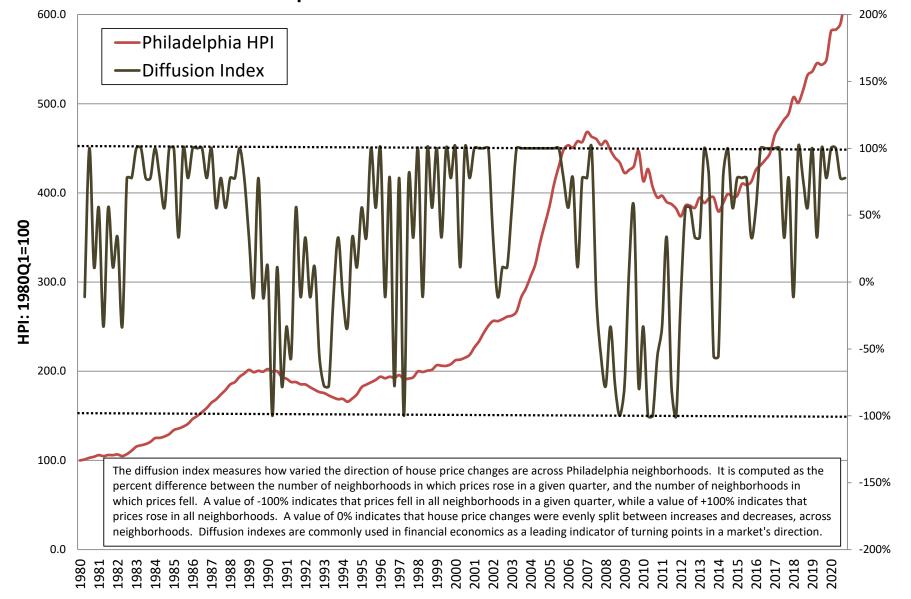
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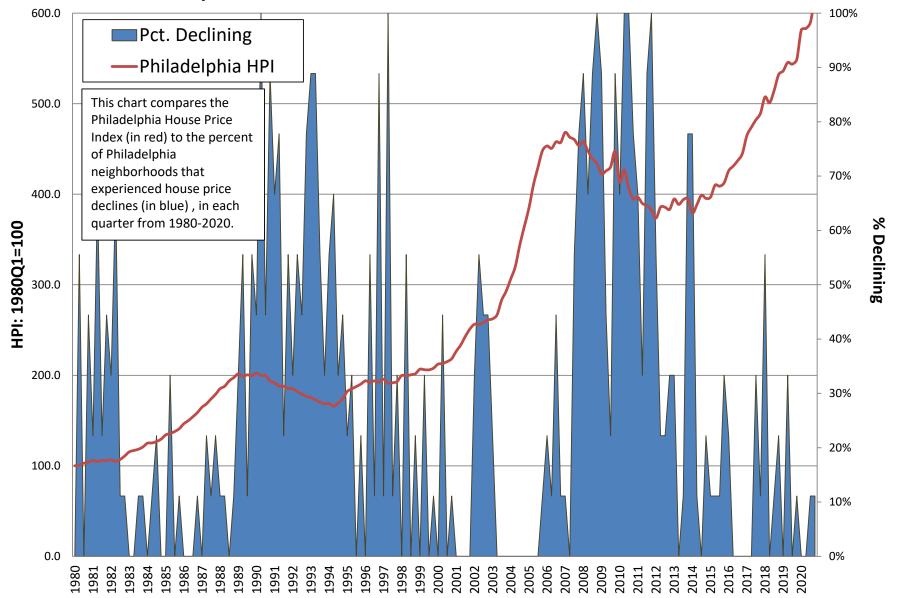


Philadelphia House Price Diffusion Index 1980-2020



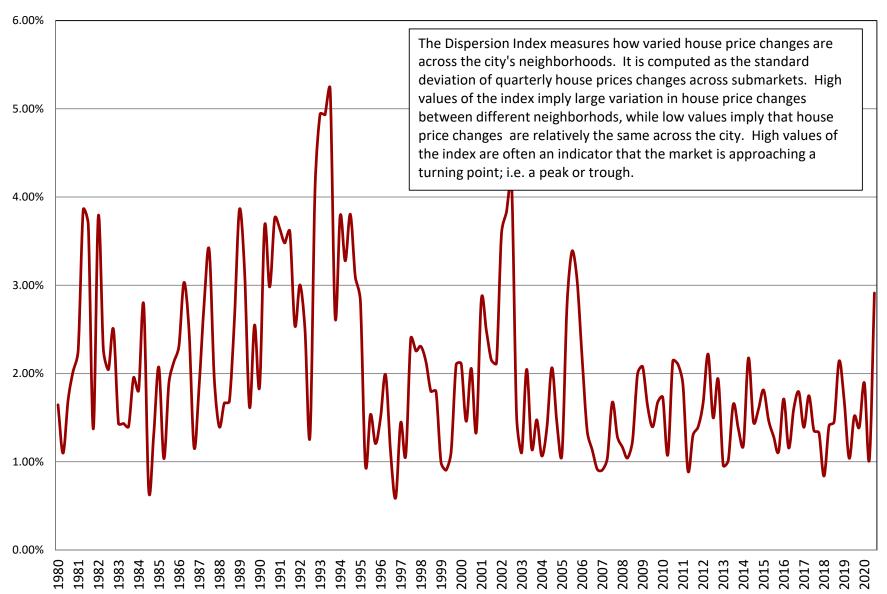


Philadelphia House Prices 1980-2020: Declines v. House Price Index

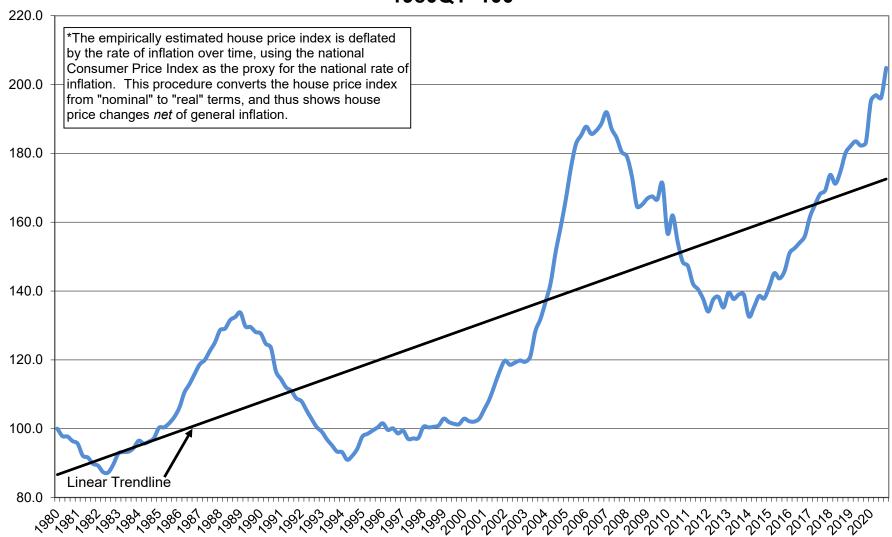




Dispersion Index of Philadelphia Housing

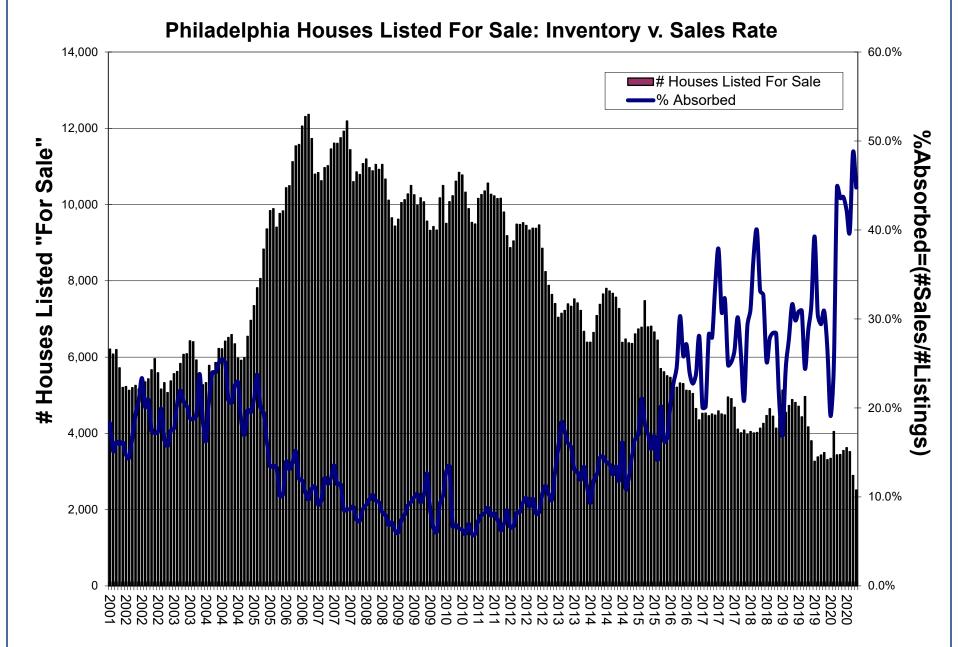


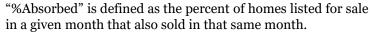
Inflation-Adjusted* Philadelphia House Price Index 1980-2020 1980Q1=100



Source: US Bureau of Labor Statistics

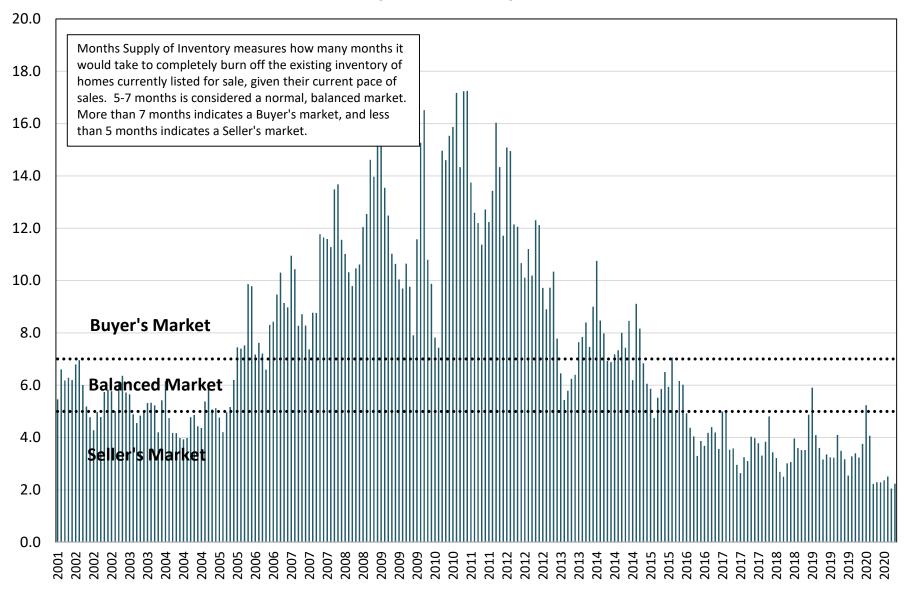






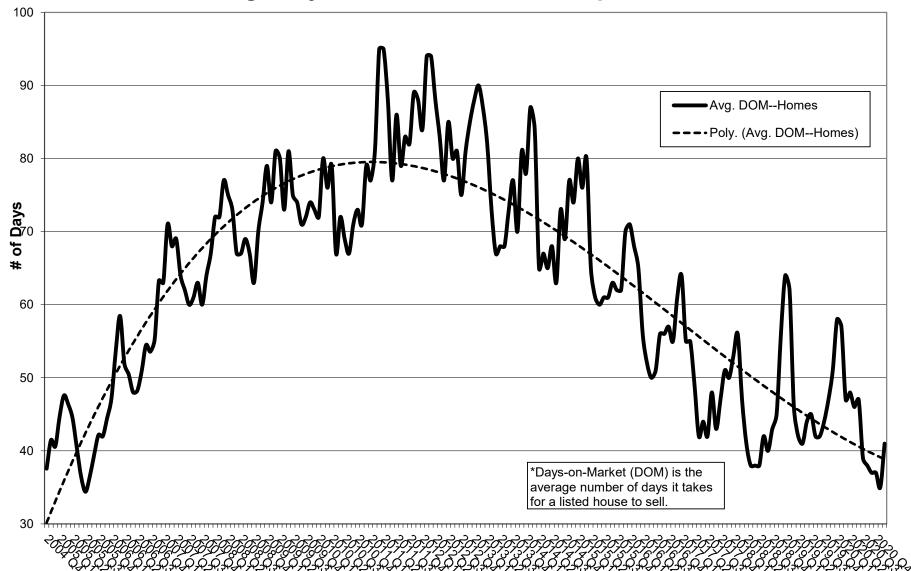


Months Supply of Inventory in Philadelphia



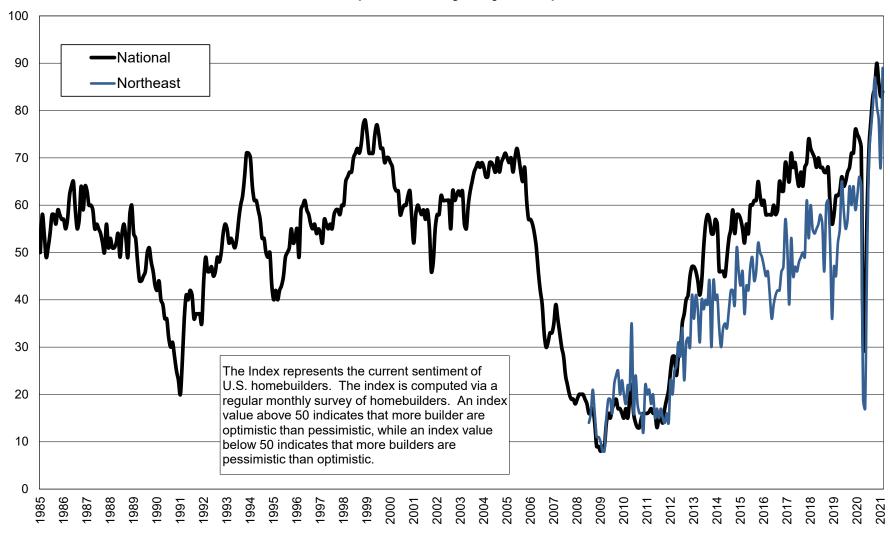


Average Days-on-Market* for Philadelphia Homes





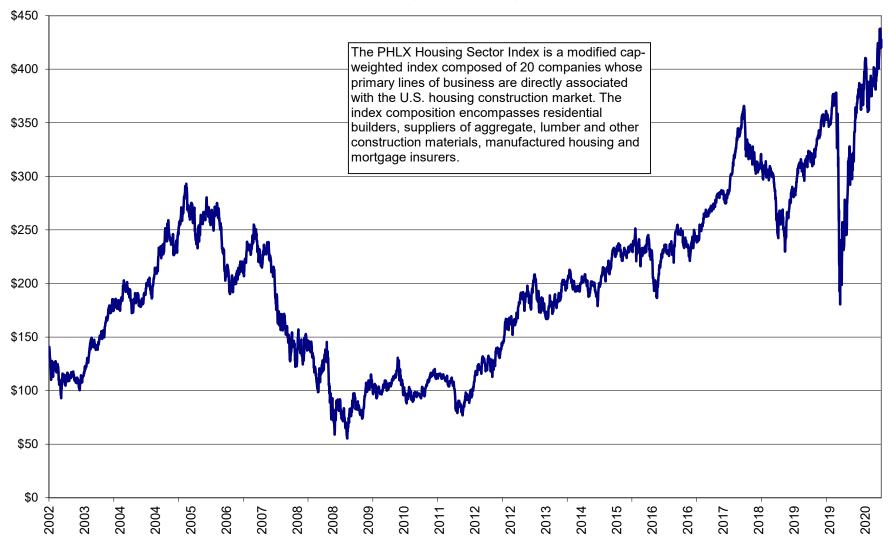
Index of Homebuilder Sentiment: 1985-2021 (Seasonally Adjusted)



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



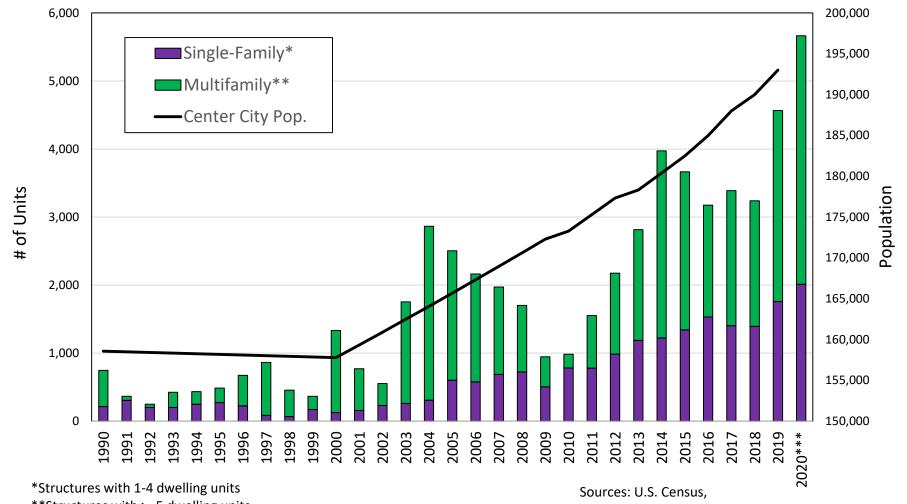
Philadelphia Stock Exchange Housing Sector Index: 2002-2021



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



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

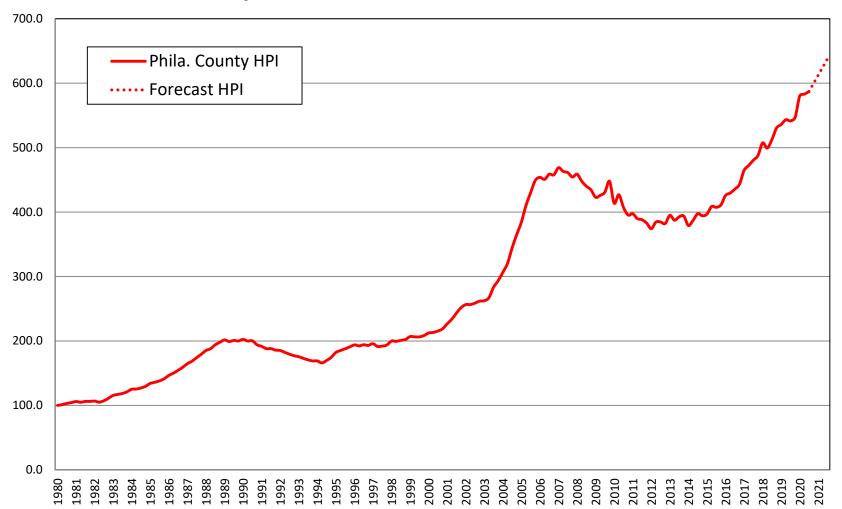






Philadelphia House Price Index and 1-Year Forecast

Philadelphia House Price Index: Actual v. Forecast



Zillow's website does not currently report its most recent forecast of Philadelphia house prices. Their most recent forecast from several months ago projected an increase of 8.3% in Philadelphia's general level of house prices over the next 12 months. Source: http://www.zillow.com/philadelphia-pa/home-values/