PHILADELPHIA HOUSE PRICE INDICES

October 21, 2020

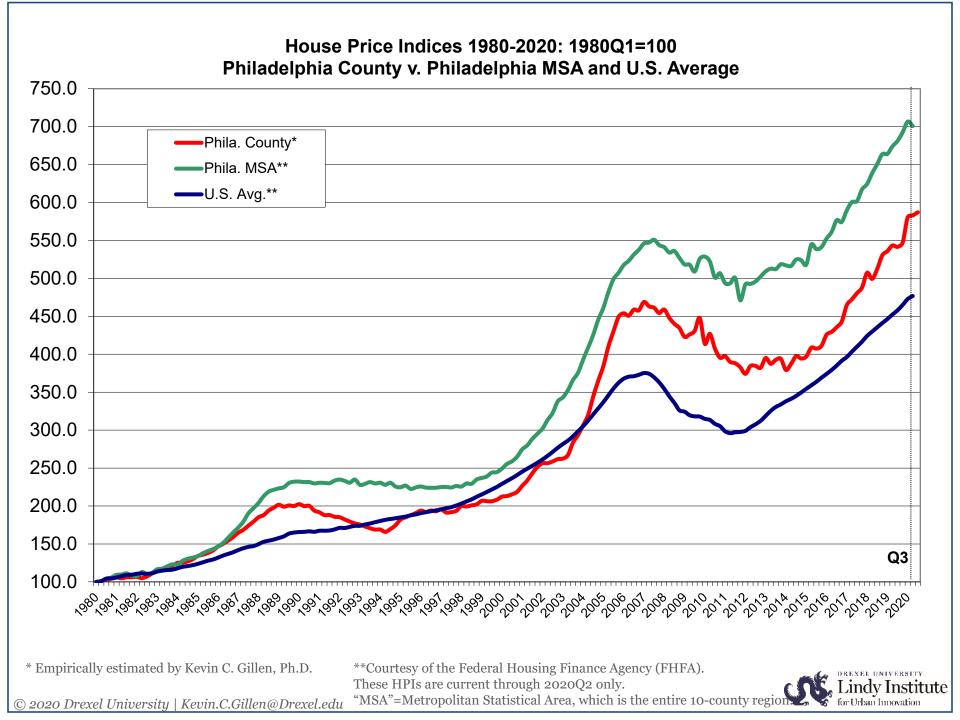
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Disclaimers and Acknowledgments: The Lindy Institute for Urban Innovation at Drexel University provides this report free of charge to the public. The report is produced by Kevin C. Gillen Ph.D.. The author thanks Azavea.com, the Philadelphia Office 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.





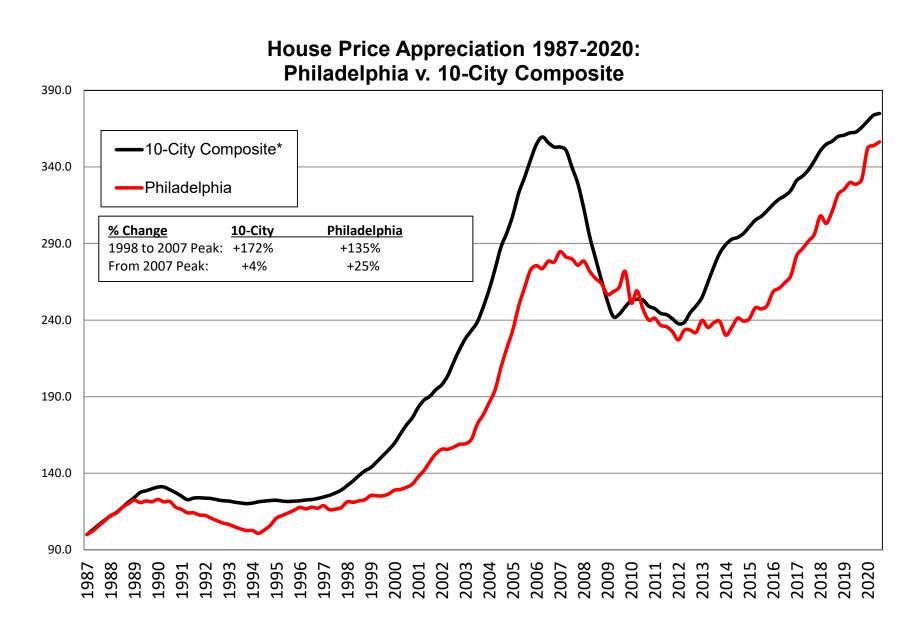
Total House Price Appreciation Rates by Geographic Market

Period	Philadelphia County*	Philadelphia MSA**	U.S.A. **
40-Year	487.0%	600.7%	376.7%
10-Year	44.1%	34.2%	52.1%
1-Year	8.4%	4.0%	5.4%
1-Quarter	0.7%	-0.8%	0.8%

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

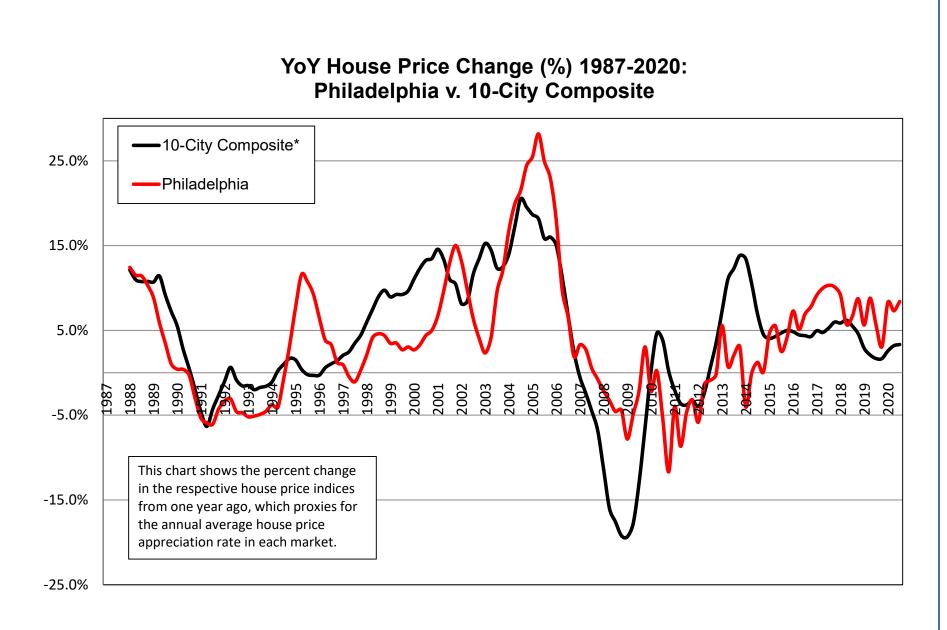
**Source: U.S. Federal Housing Finance Agency (FHFA). These numbers are through 2020Q2 only. "MSA"="Metropolitan Statistical Area", which is the entire 10-county region.





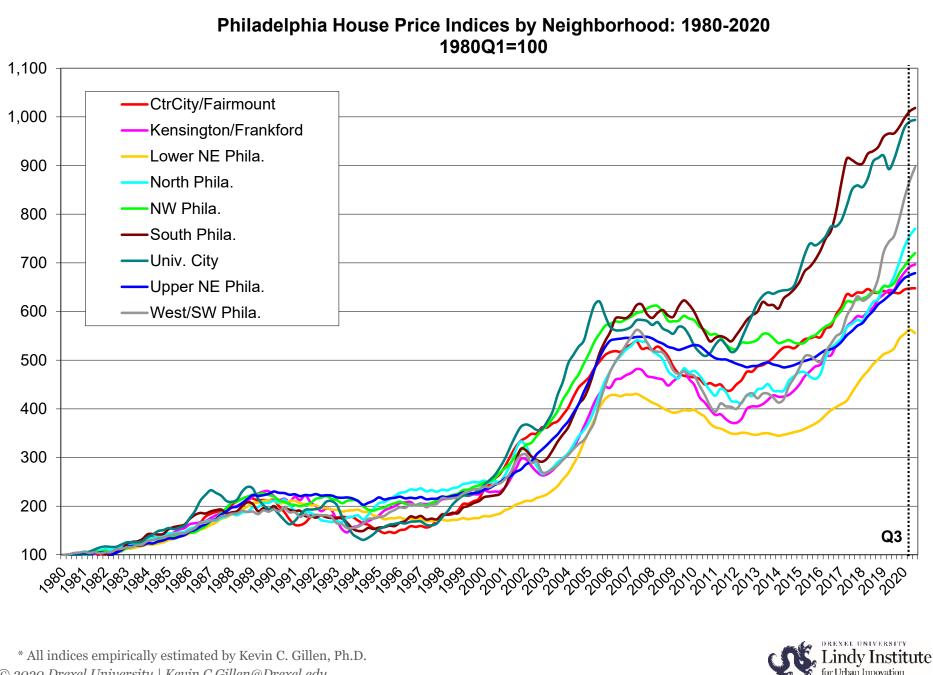
*Source: S&P/Case-Shiller. The 10-City Composite index includes Boston, Chicago, Denver, Las Vegas, Los Angeles, Miami, New York, San Diego, San Francisco, and Washington, DC. It does not include Philadelphia.





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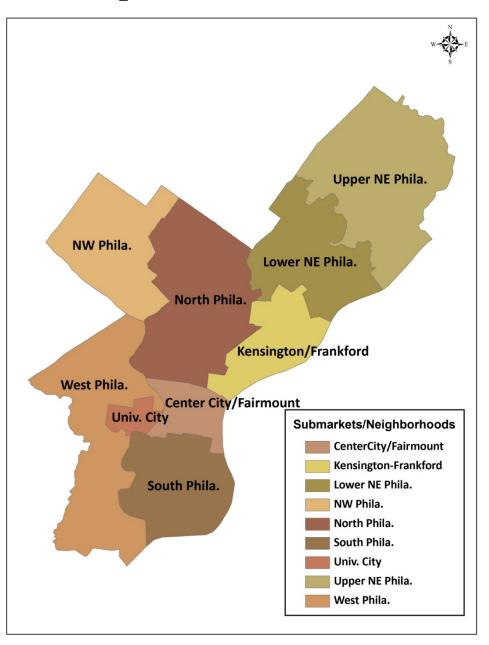
Period	Center City/ Fairmount	Kensington /Frankford	Lower NE Phila.	North Phila.	NW Phila.	South Phila.	Univ. City	Upper NE Phila.	West/ SW Phila.
40-year	547.8%	596.9%	455•5%	670.2%	620.0%	918.4%	893.9%	579.0%	796.6%
10-year	44.0%	68.8%	44.8%	70.0%	28.1%	83.0%	95.4%	30.4%	109.3%
1-Year	1.4%	8.1%	5.9%	14.6%	9.4%	5.4%	8.9%	5.7%	18.7%
1-Quarter	0.1%	0.7%	-1.3%	1.9%	1.6%	0.7%	0.4%	0.6%	3.2%

Philadelphia House Price Appreciation Rates by Submarket

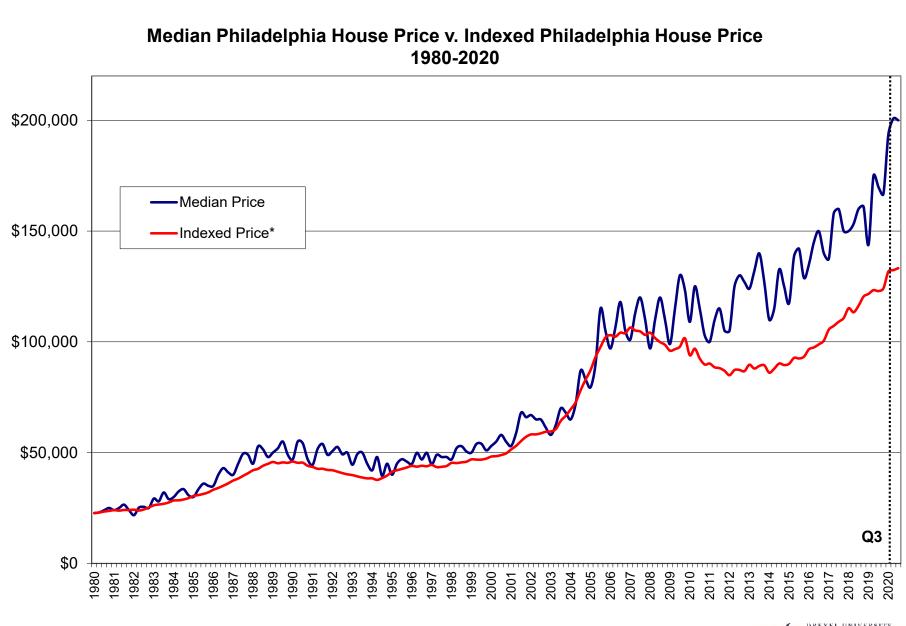
This table gives the total % change in average house values by submarket, through 2020 Q3, from different starting points in time.



Philadelphia Submarket Boundaries

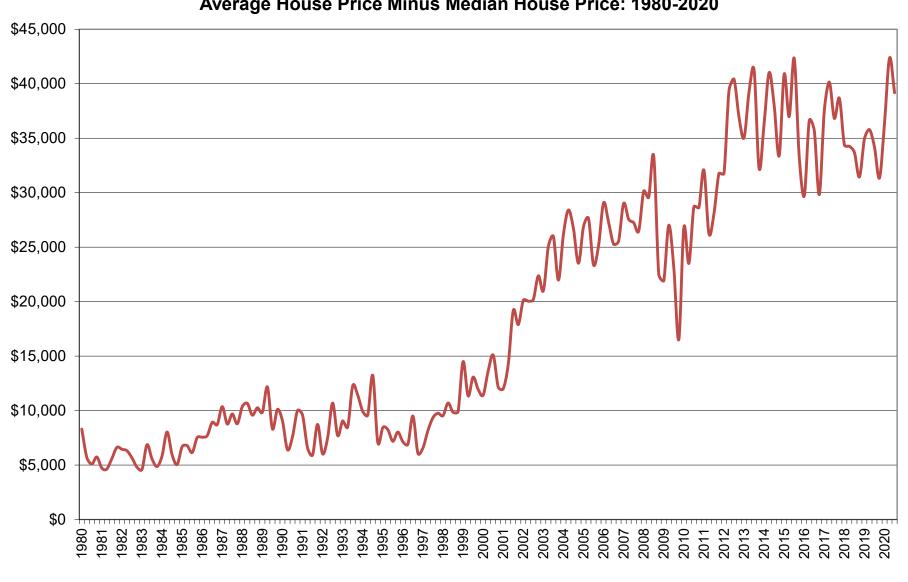


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* Empirically estimated by Kevin C. Gillen, PhD © 2020 Drexel University | Kevin.C.Gillen@Drexel.edu

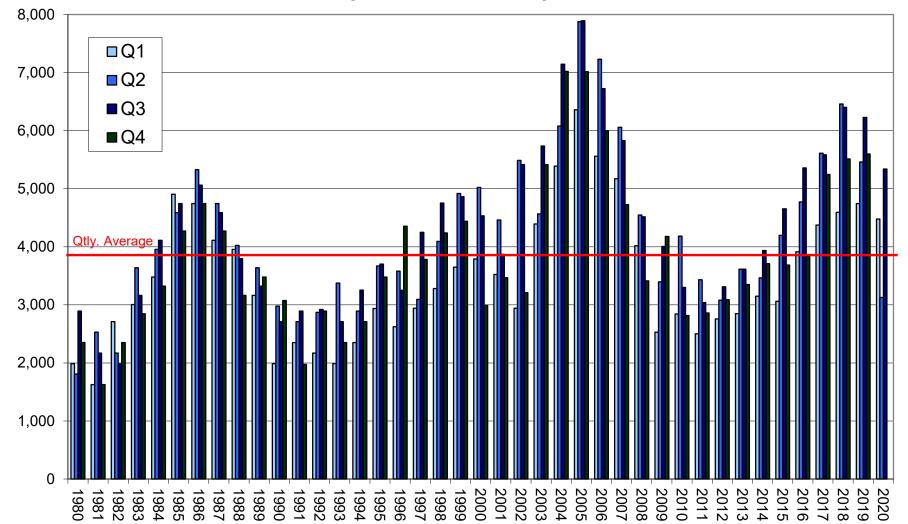




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Average House Price Minus Median House Price: 1980-2020



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

*Only arms-length transactions between private sector entities were included in these numbers. © 2020 Drexel University | Kevin.C.Gillen@Drexel.edu



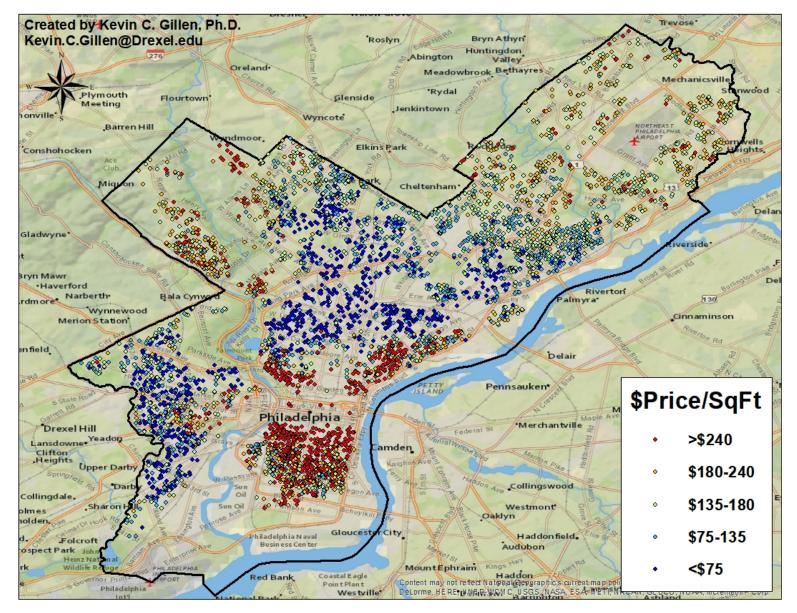
50 □Q1 45 **Q**2 40 ■Q3 35 ■Q4 30 25 20 15 Qtly. Average 10 5 0 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020

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. © 2020 Drexel University | Kevin.C.Gillen@Drexel.edu



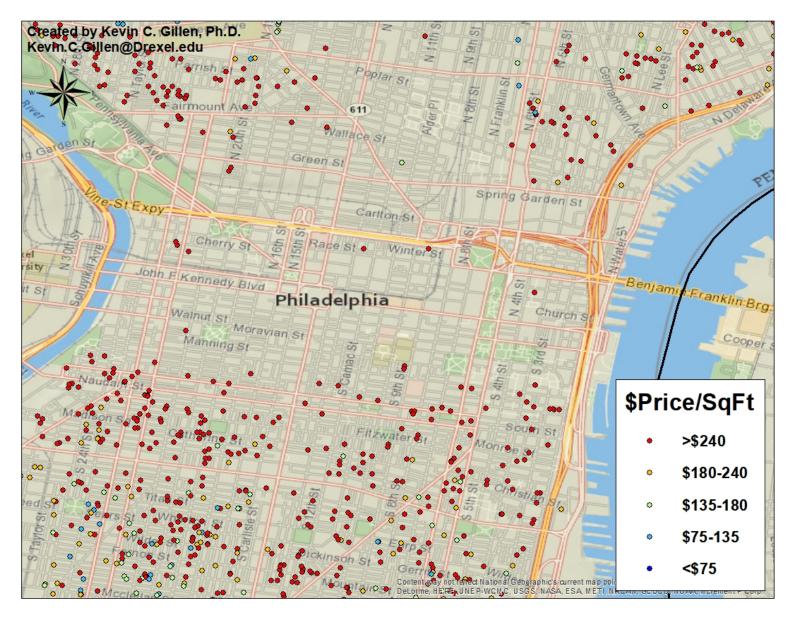
Philadelphia House Sales in 2020 Q3



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. © 2020 Drexel University | Kevin.C.Gillen@Drexel.edu

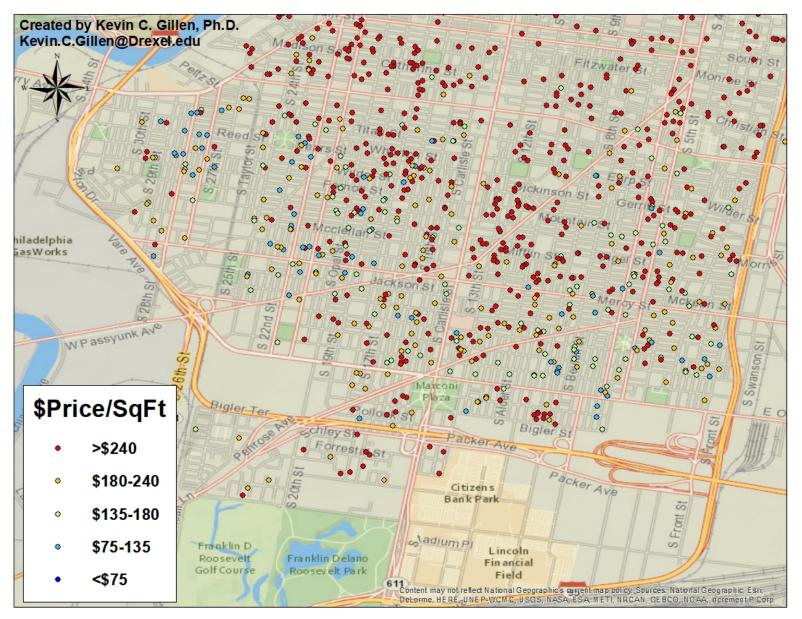


Center City House Sales in 2020 Q3



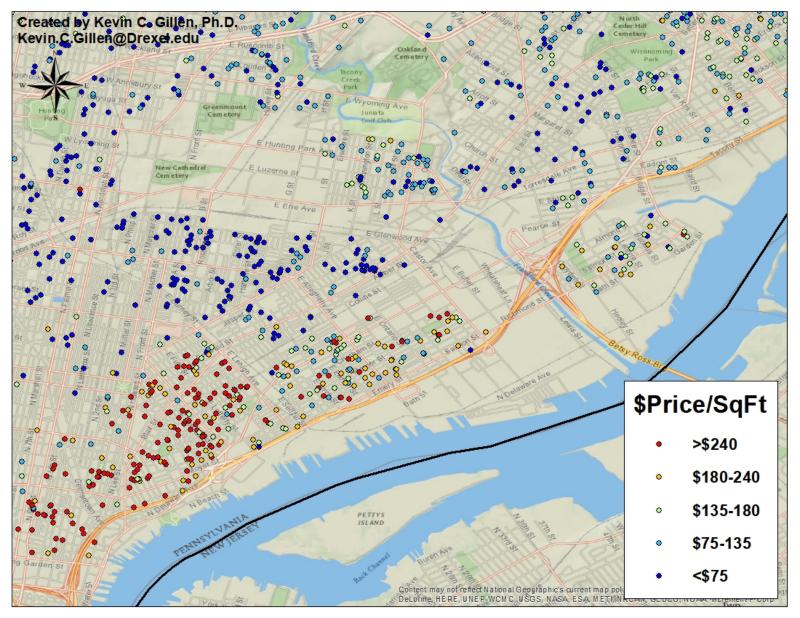


South Philadelphia House Sales in 2020 Q3



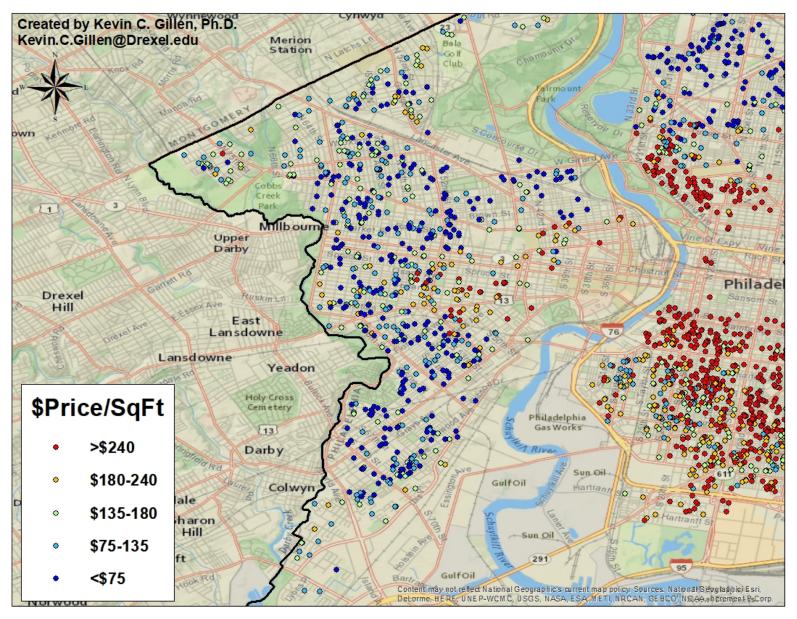


Kensington/Frankford House Sales in 2020 Q3



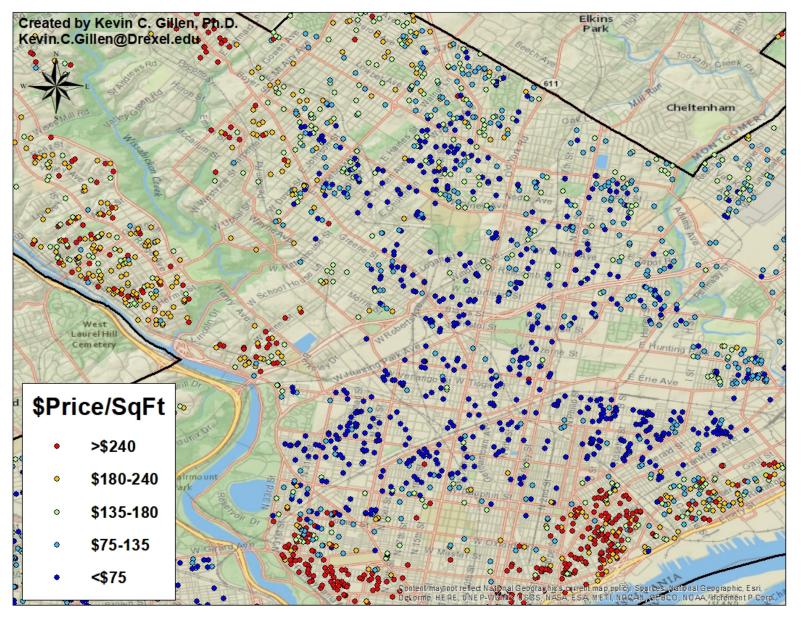


West/Southwest Philadelphia House Sales in 2020 Q3



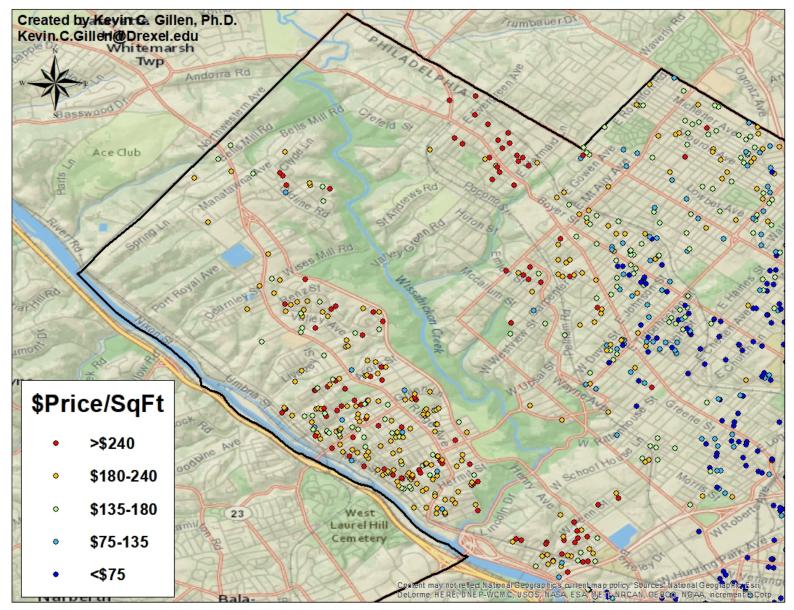


North Philadelphia House Sales in 2020 Q3



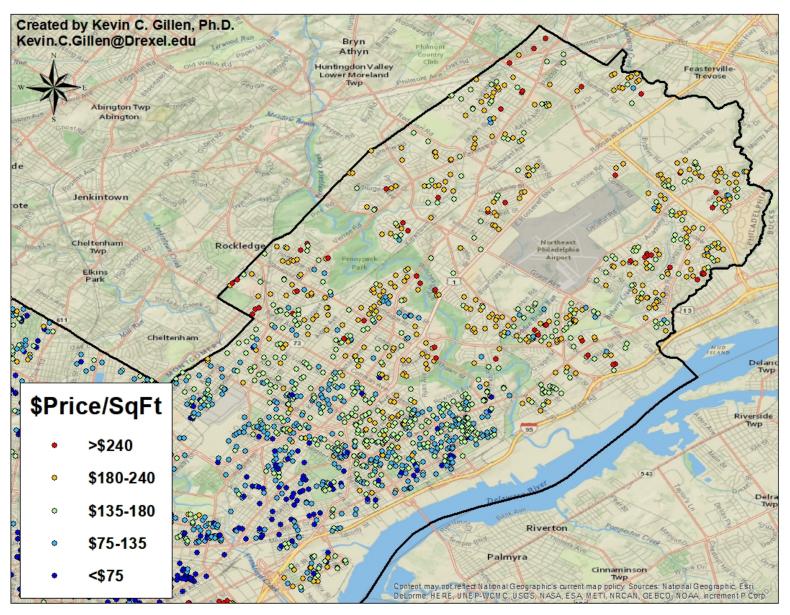


Northwest Philadelphia House Sales in 2020 Q3

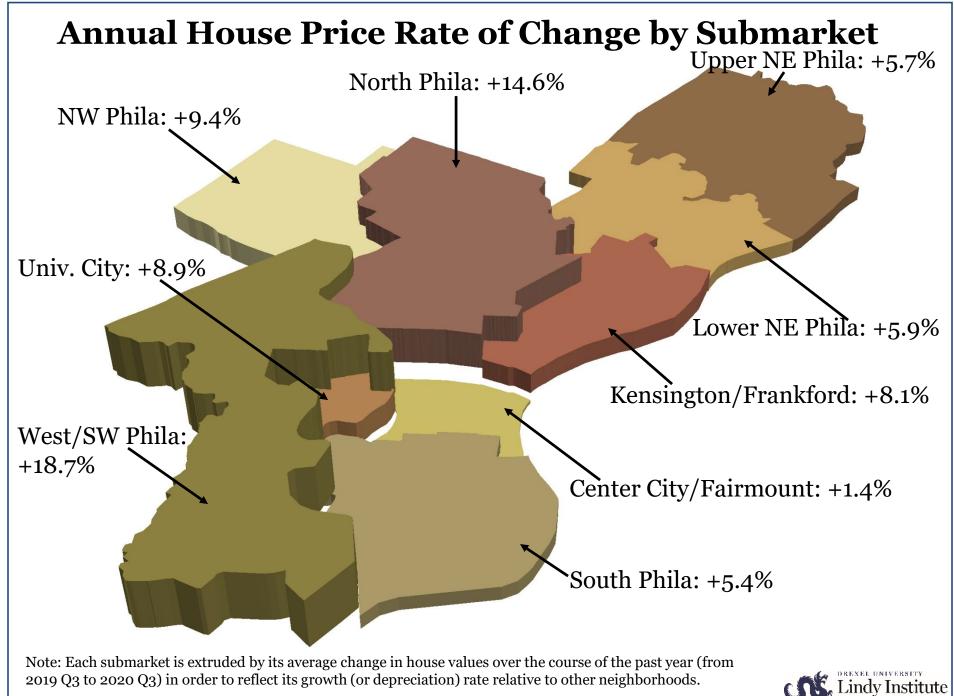




Northeast Philadelphia House Sales in 2020 Q3

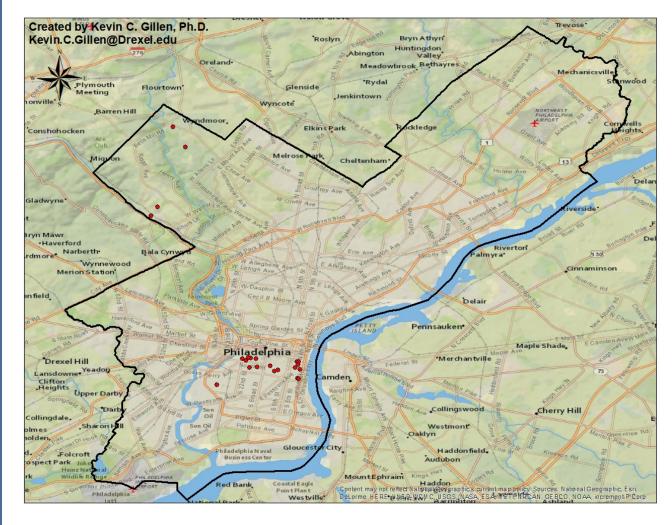






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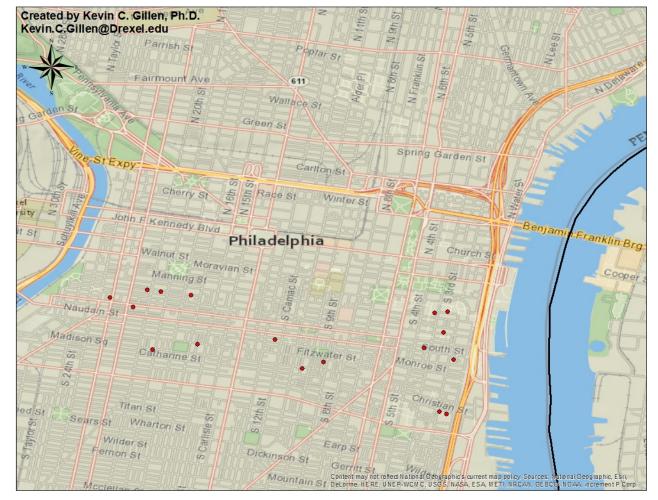
+\$1 Million Dollar House Sales in 2020 Q3



Price	Address
\$1,056,379	
\$1,064,725	1 LEVERINGTON AVE #105 L
\$1,070,500	
	4726 CROSS ST
\$1,079,688	1 LEVERINGTON AVE #103 F
\$1,120,000	1220 KATER ST
\$1,128,000	802 S 19TH ST
\$1,130,000	614 S HANCOCK ST
\$1,135,000	
\$1,139,000	
\$1,200,000	
\$1,201,000	281 LOCUST ST
\$1,210,000	
\$1,240,000	
\$1,250,000	709 S PERCY ST
\$1,275,000	112 CHRISTIAN ST #F
\$1,300,000	801A WARNOCK
\$1,300,000	312-14 GASKILL ST
\$1,314,747	406 S 22ND ST
\$2,100,000	260 S 3RD ST
\$2,150,000	8219 SAINT MARTINS LN
\$2,282,020	1717 S 29TH ST
\$2,295,000	30 W SUNSET AVE
\$2,712,500	2022 DELANCEY ST



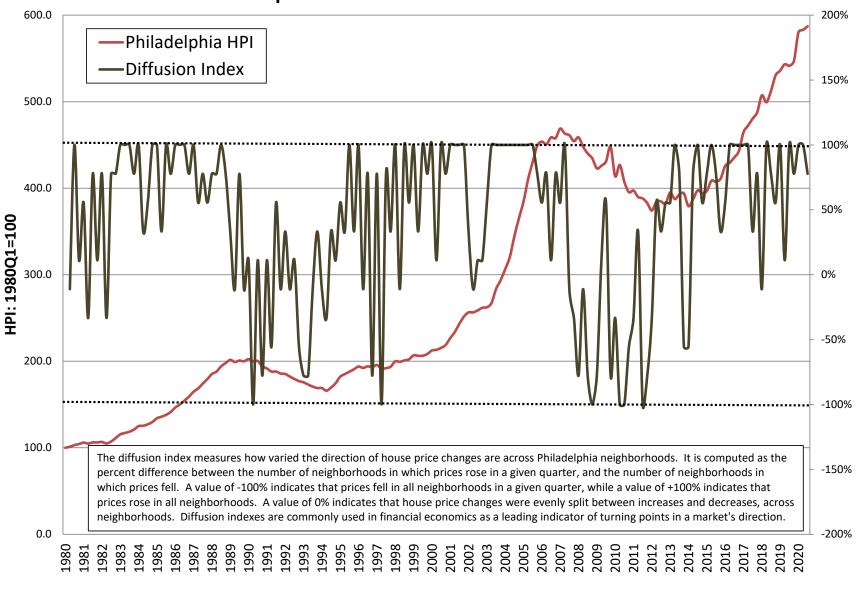
+\$1 Million Dollar House Sales in 2020 Q3



Price	Address
\$1,056,379	1 LEVERINGTON AVE #105 E
\$1,064,725	1 LEVERINGTON AVE #105A
\$1,070,500	1724 DELANCEY ST
\$1,075,000	4726 CROSS ST
\$1,079,688	1 LEVERINGTON AVE #103 F
\$1,120,000	1220 KATER ST
\$1,128,000	802 S 19TH ST
\$1,130,000	614 S HANCOCK ST
\$1,135,000	233 PINE ST
\$1,139,000	1918 DELANCEY PL
\$1,200,000	905 S 2ND ST
\$1,201,000	281 LOCUST ST
\$1,210,000	2046 LOMBARD ST
\$1,240,000	739 S CHADWICK ST
\$1,250,000	709 S PERCY ST
\$1,275,000	112 CHRISTIAN ST #F
\$1,300,000	801A WARNOCK
\$1,300,000	312-14 GASKILL ST
\$1,314,747	406 S 22ND ST
\$2,100,000	260 S 3RD ST
\$2,150,000	8219 SAINT MARTINS LN
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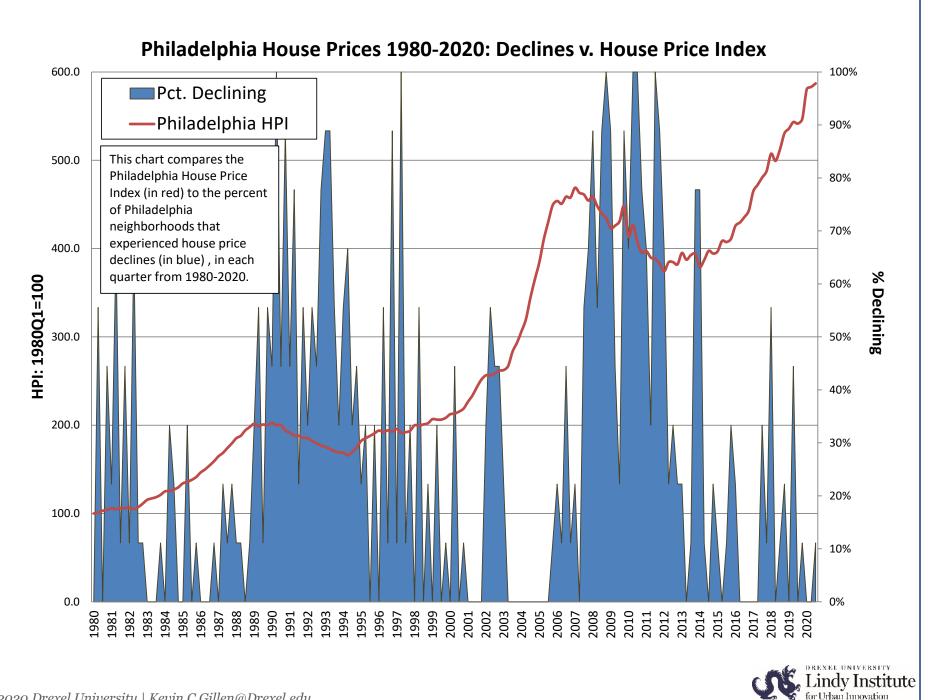


Philadelphia House Price Diffusion Index 1980-2020

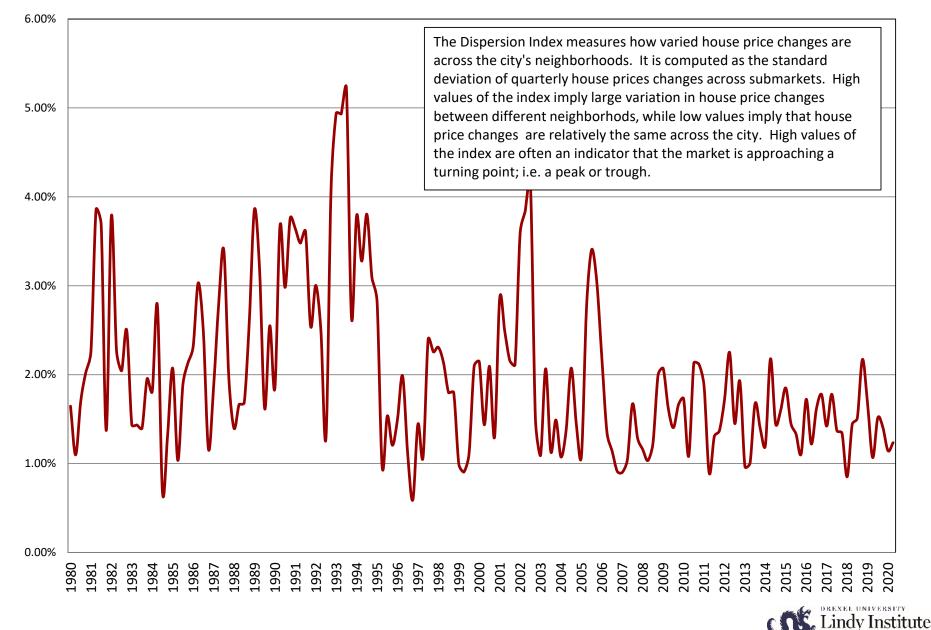


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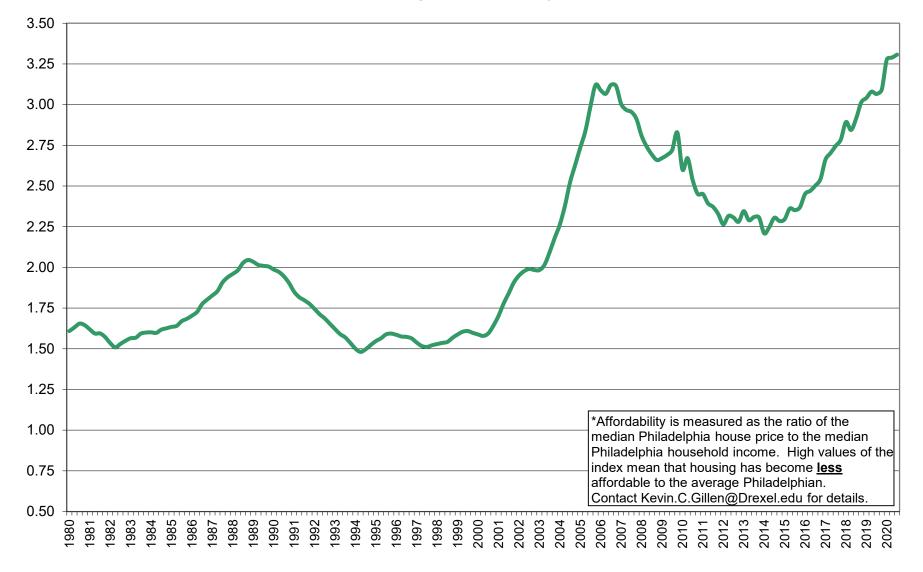


Dispersion Index of Philadelphia Housing

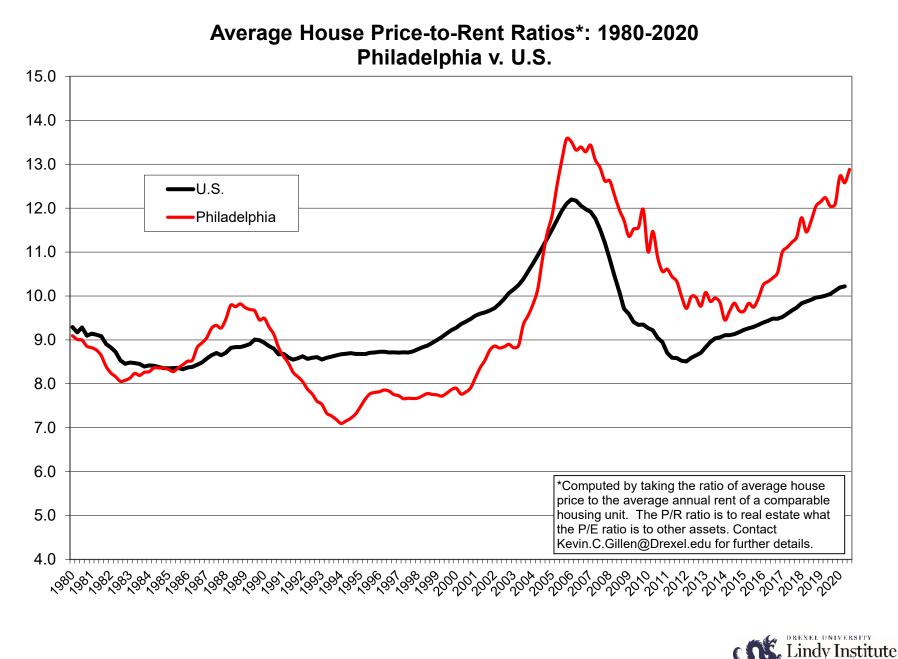


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Philadelphia Housing Affordability* Index: 1980-2020

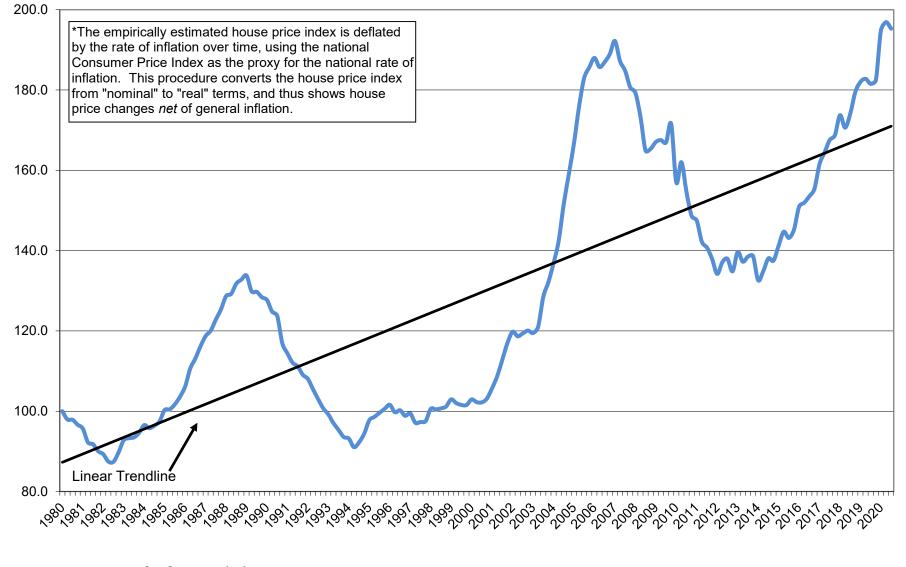






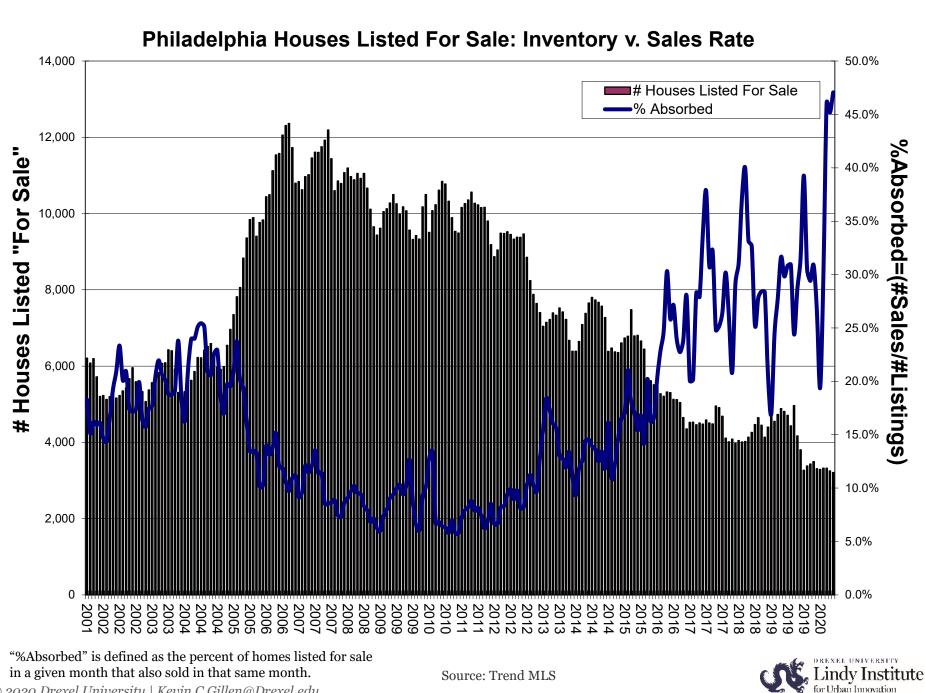
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Inflation-Adjusted* Philadelphia House Price Index 1980-2020 1980Q1=100

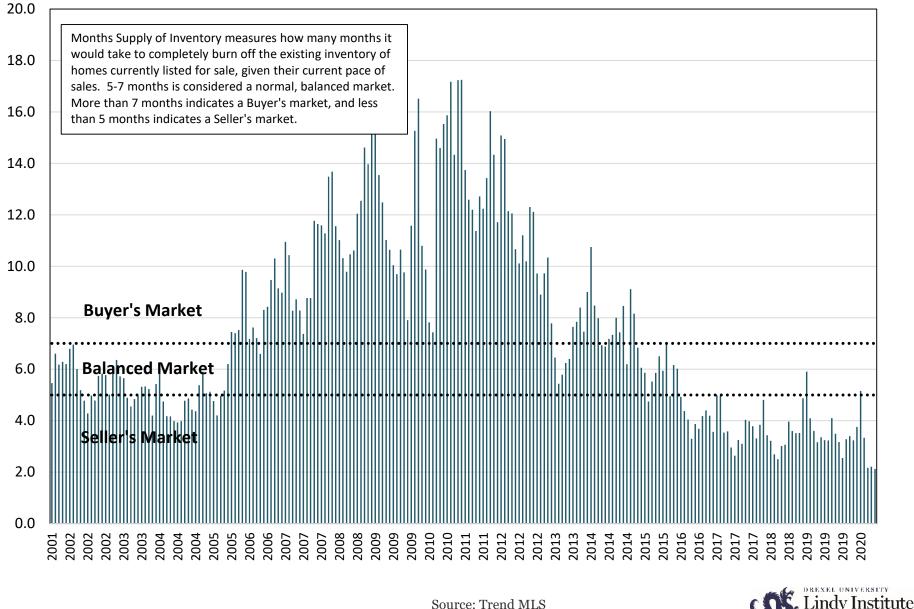


Source: US Bureau of Labor Statistics

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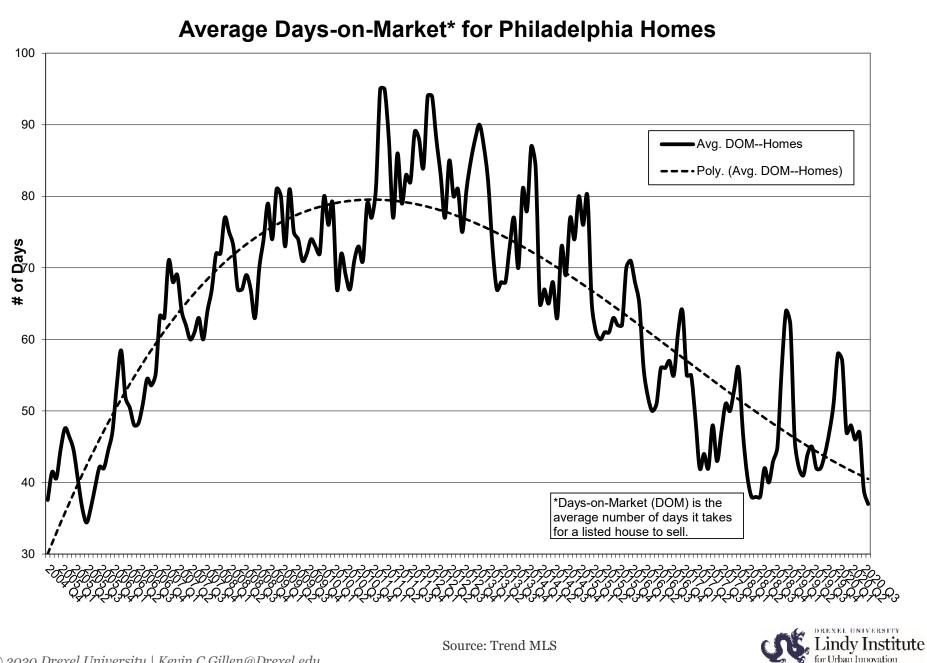
Months Supply of Inventory in Philadelphia

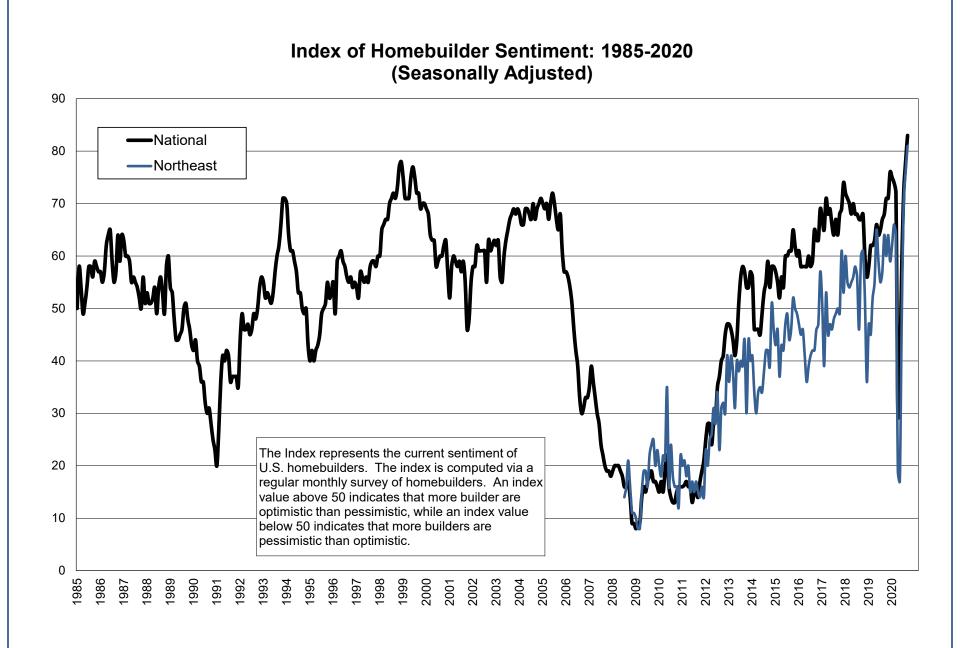


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Source: Trend MLS

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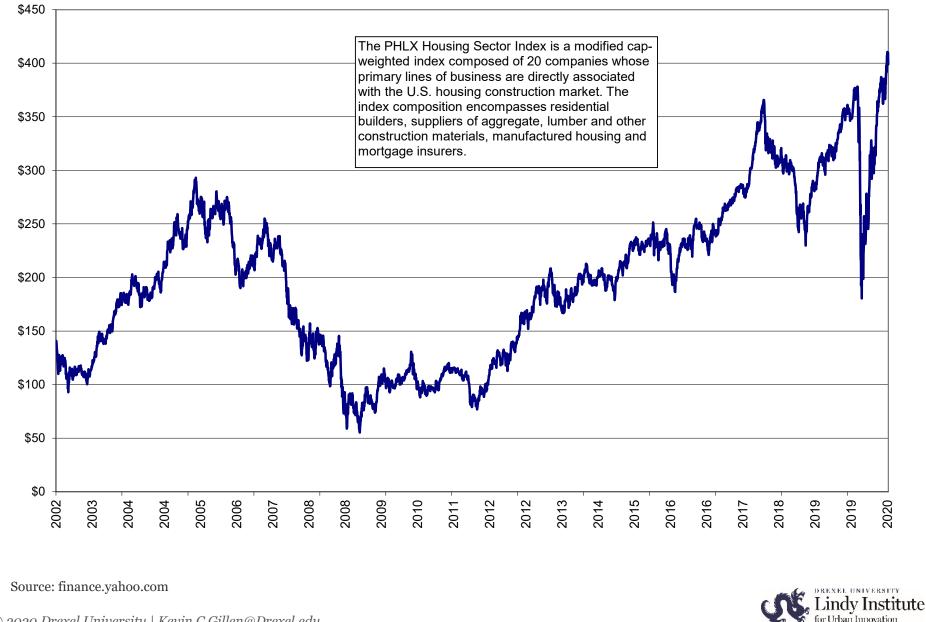


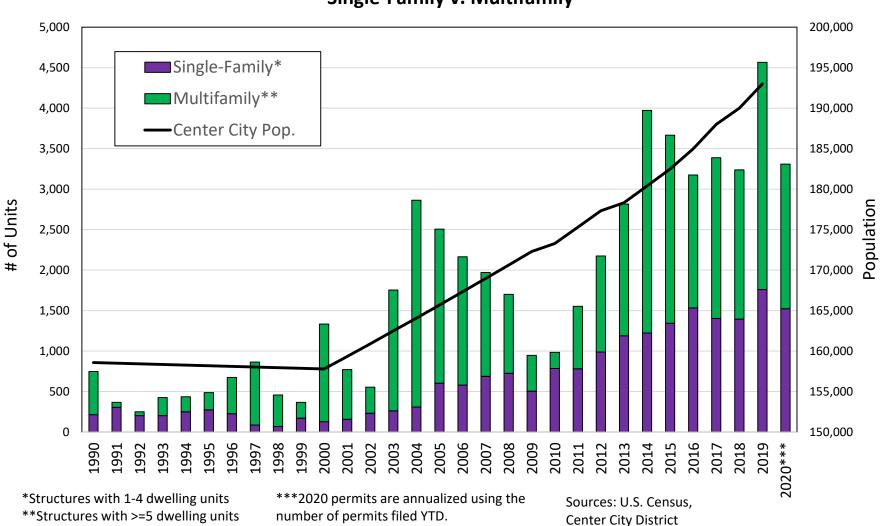


Source: National Assoc. of Homebuilders (NAHB)/Wells Fargo



Philadelphia Stock Exchange Housing Sector Index: 2002-2020



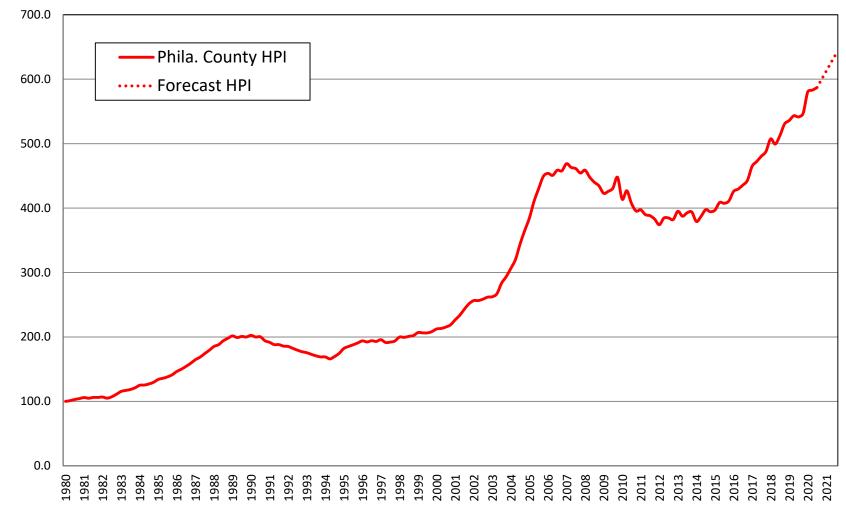


Building Permits Issued for Construction of Residential Units in Philadelphia 1990-2020: Single-Family v. Multifamily

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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 undergone a significant revision. After several quarters of predicting negative house price appreciation, Zillow is currently projecting 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/

