# PHILADELPHIA REGIONAL HOUSE PRICE INDICES

### February 9, 2023



KEVIN C. GILLEN, Ph.D.

Kevin.C.Gillen@Drexel.edu

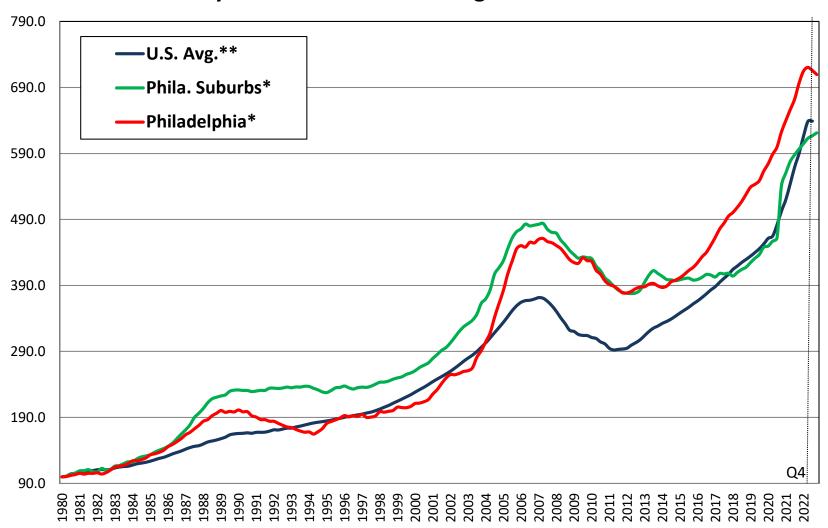
Sponsored By:



**Disclaimers and Acknowledgments:** The Lindy Institute for Urban Innovation at Drexel University and Bright MLS provide this report free of charge to the public. The report is produced by Kevin Gillen, a Senior Research Fellow with the Lindy Institute and a member of Bright MLS's Council of Economic Advisors. The author thanks Bright MLS., Azavea.com, the Philadelphia Office of Property Assessment, the Federal Housing Finance Agency, Case-Shiller MacroMarkets LLC, Realty Trac, Zillow.com, Trulia.com and the NAHB for making their data available for this report.

© 2023, Drexel University, All Rights Reserved.

#### Philadelphia Regional House Price Indices 1980-2022 City v. Suburbs v. U.S. Average.: 1980Q1=100



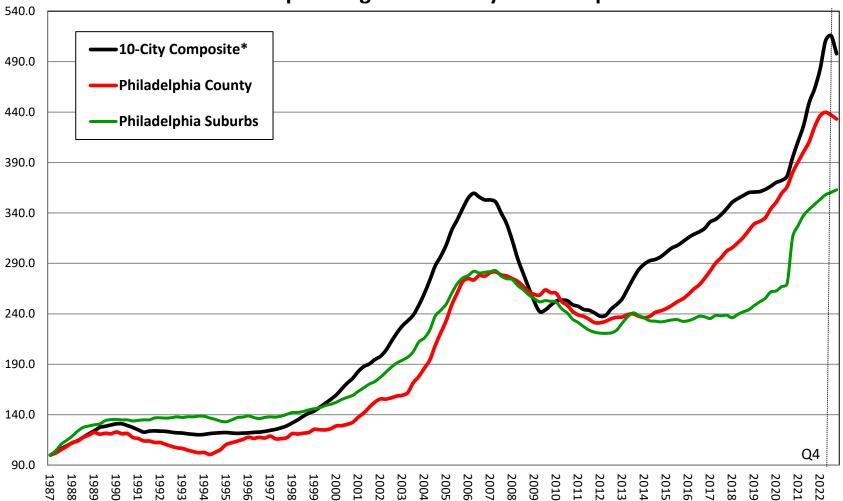
<sup>\*</sup>Empirically estimated by Kevin C. Gillen, Ph.D.

Note: The suburban index includes all counties in the regional index, except for Philadelphia.



<sup>\*\*</sup>Courtesy Federal Housing Finance Agency

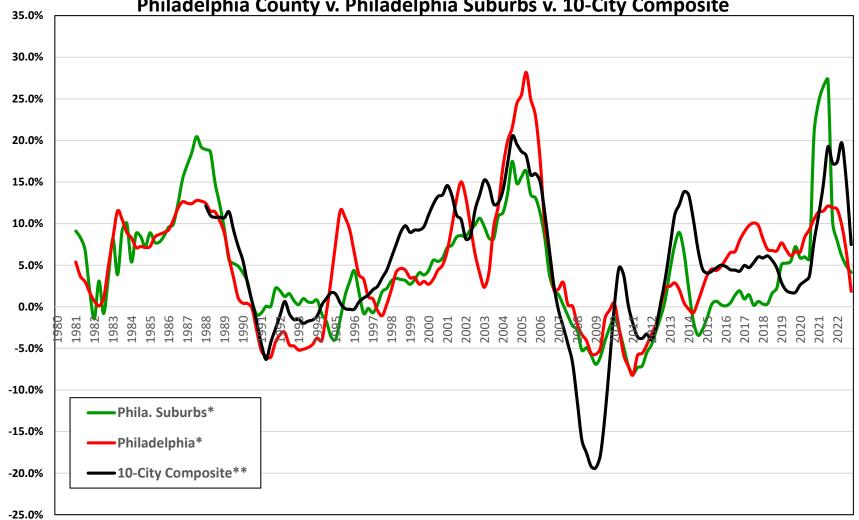
# House Price Appreciation 1987-2022: Philadelphia Region v. 10-City U.S. Composite



<sup>\*</sup>Source: Case-Shiller MacroMarkets LLC. 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 Change in Average House Prices: 1980-2022 Philadelphia County v. Philadelphia Suburbs v. 10-City Composite

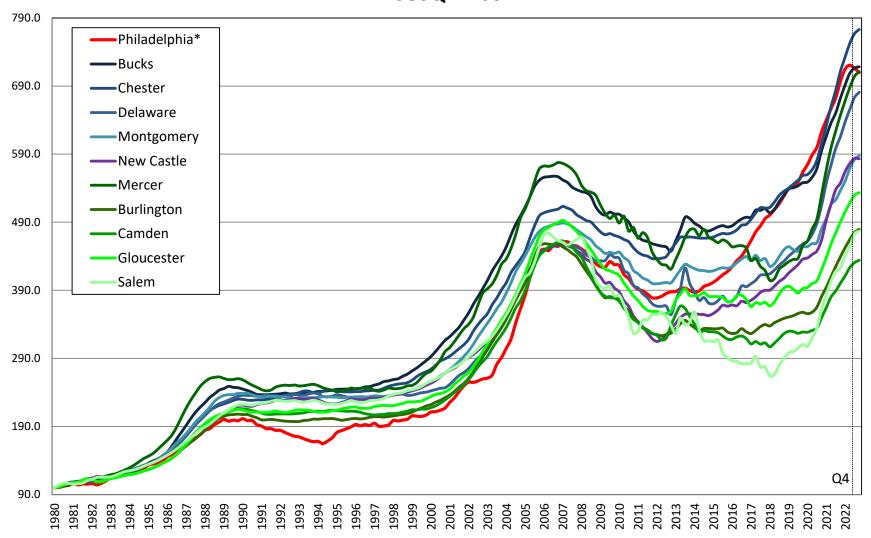


<sup>\*</sup>Empirically estimated by Kevin C. Gillen, Ph.D.

<sup>\*\*</sup>Empirically estimated by Case-Shiller. The 10-City Composite reflects average annual house price changes in ten large US cities, including: Boston Chicago, Denver, Las Vegas, Los Angeles, Miami, New York, San Diego, San Francisco and Washington DC. It does not include Philadelphia.



# Philadelphia Regional House Price Indices 1980-2022, by County 1980Q1=100



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



# Total House Price Appreciation Rates by Philadelphia Area Submarket and U.S.

Period	Philadelphia County*	Philadelphia Suburbs*	U.S.A.**
43-Year	609.7%	<b>521.3</b> %	538.9%
10-Year	83.1%	62.1%	110.7%
1-Year	1.9%	4.1%	12.2%
1-Quarter	-0.9%	0.7%	0.0%

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



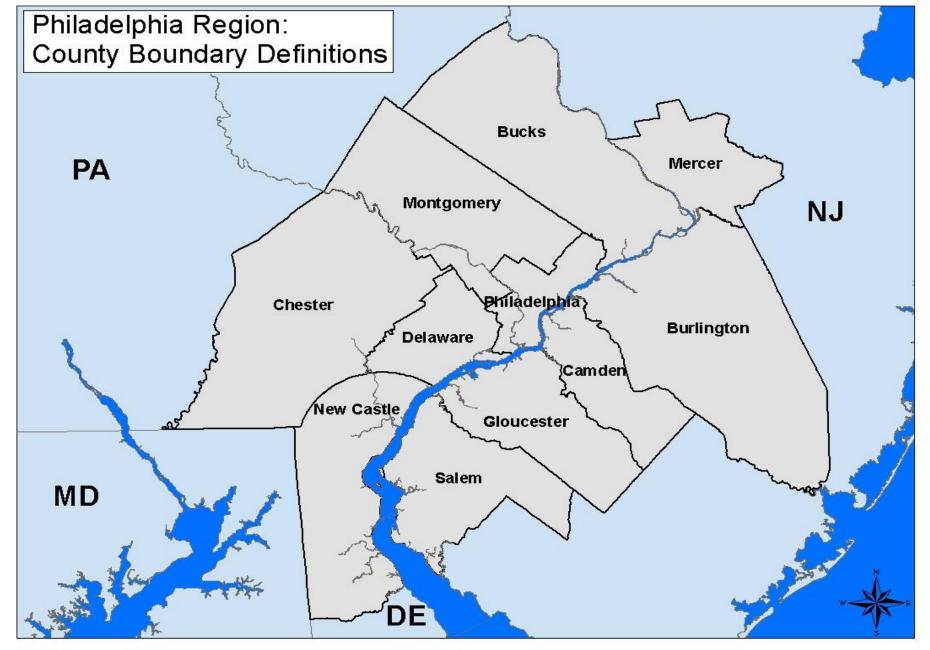
<sup>\*\*</sup>Source: U.S. Federal Housing Finance Agency (FHFA). These numbers are only through 2022Q3. "MSA"="Metropolitan Statistical Area", which is the entire 11-county region.

#### Philadelphia Region House Price Appreciation Rates by County

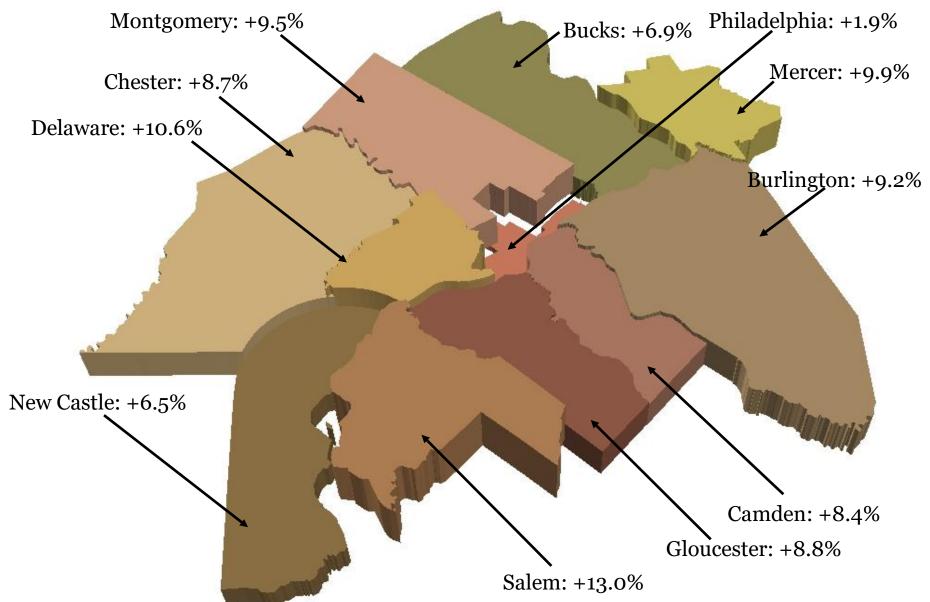
Period	Philadelphia	Bucks	Chester	Delaware	Montgomery	New Castle	Mercer	Burlington	Camden	Gloucester	Salem
43-Year	610%	618%	673%	581%	488%	483%	611%	379%	334%	433%	377%
10-Year	83.1%	60.5%	71.9%	92.3%	46.6%	75.1%	68.9%	46.6%	28.4%	48.5%	40.8%
1-Year	1.9%	6.9%	8.7%	10.6%	9.5%	6.5%	9.9%	9.2%	8.4%	8.8%	13.0%
1- Quarter	-0.9%	0.3%	0.8%	1.1%	1.0%	-0.1%	0.9%	0.9%	0.8%	0.7%	0.9%

All county-level indices and appreciation rates estimated by Kevin C. Gillen, Ph.D.





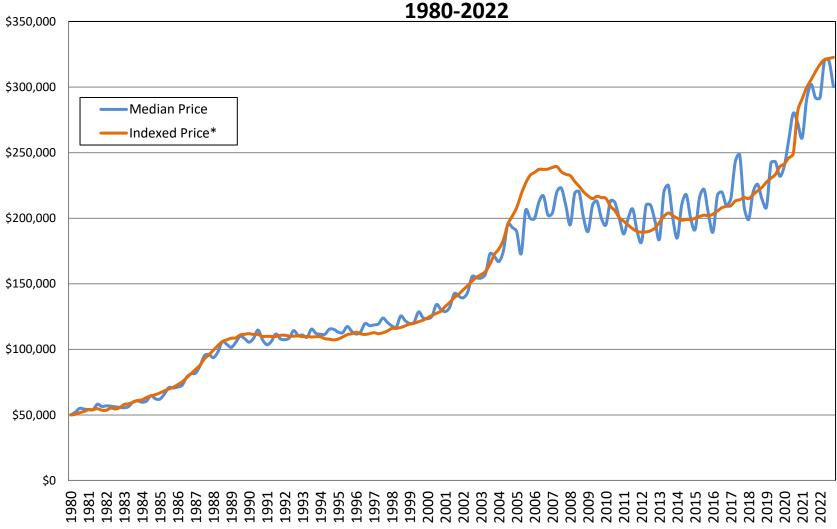
#### 2022 Q4 Annual House Price Rate of Change by County



Note: Each county is extruded by its average change in house values from 2021 Q4 to 2022 Q4 in order to reflect its growth (or depreciation) rate relative to other counties over the past year. © 2023 Kevin.C.Gillen@Drexel.edu



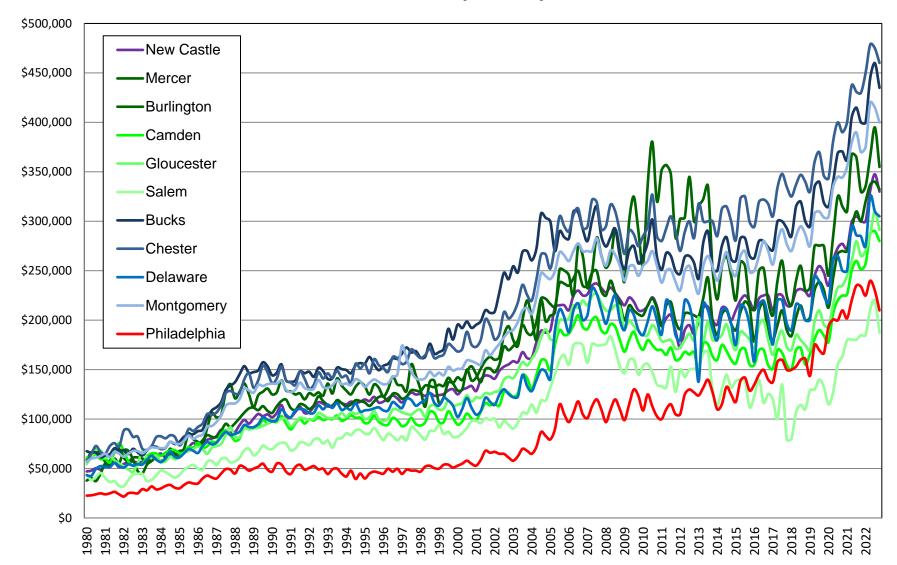
# Median Regional House Price v. Indexed Regional House Price:



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

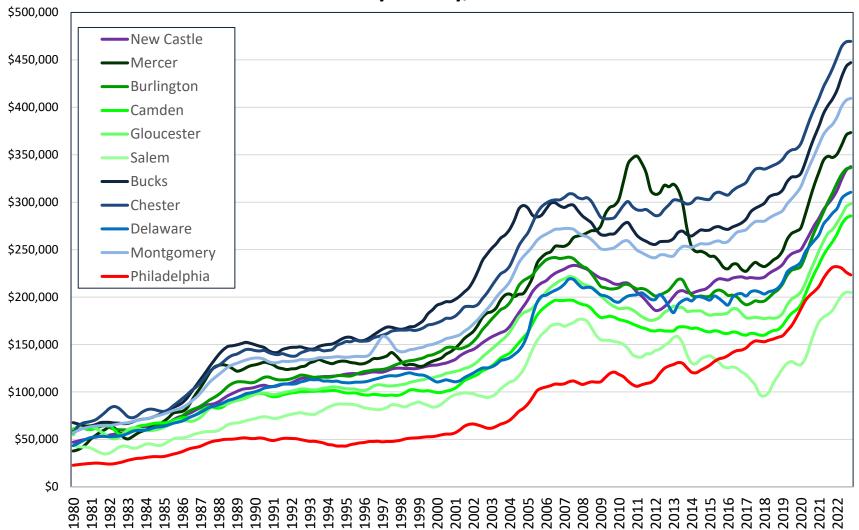


#### Median House Price by County: 1980-2022





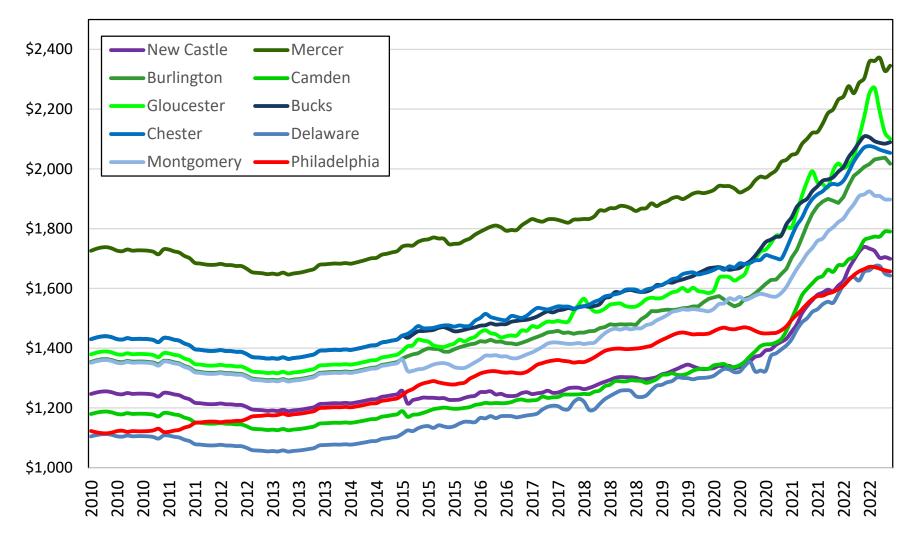
#### Median House Price by County, Smoothed\*: 1980-2022



<sup>\*</sup>The price data was smoothed by applying a 3-period moving average, in order to eliminate seasonal noise.



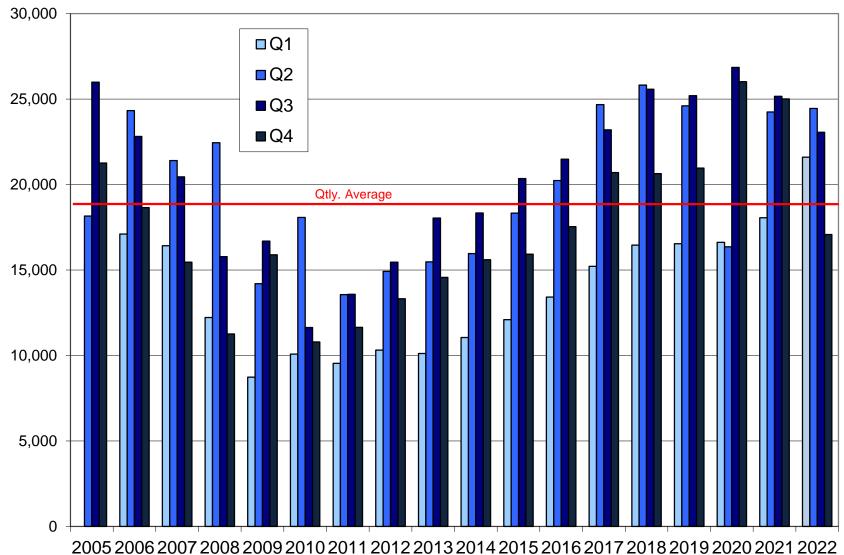
#### **Median Monthly Rent by County: 2010-2022**



Source: Zillow.com

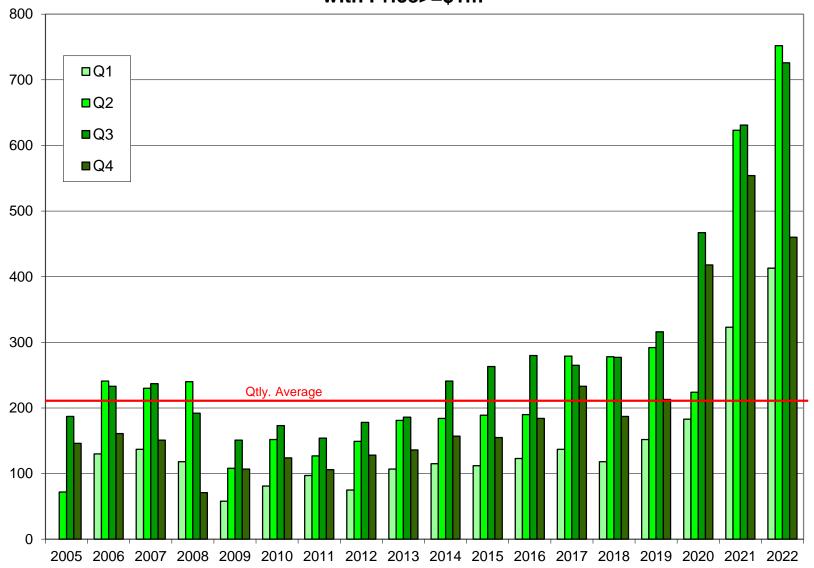


#### Number of Regional House Sales per Quarter: 2005-2022



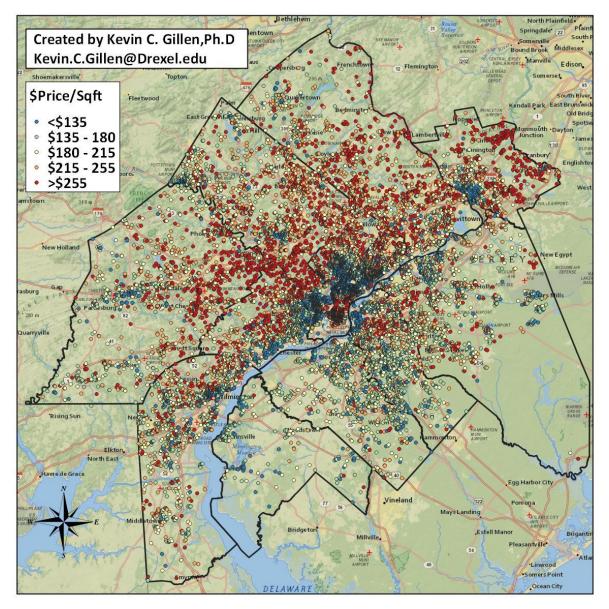


## Number of Regional House Sales 2005-2022 with Price>=\$1m



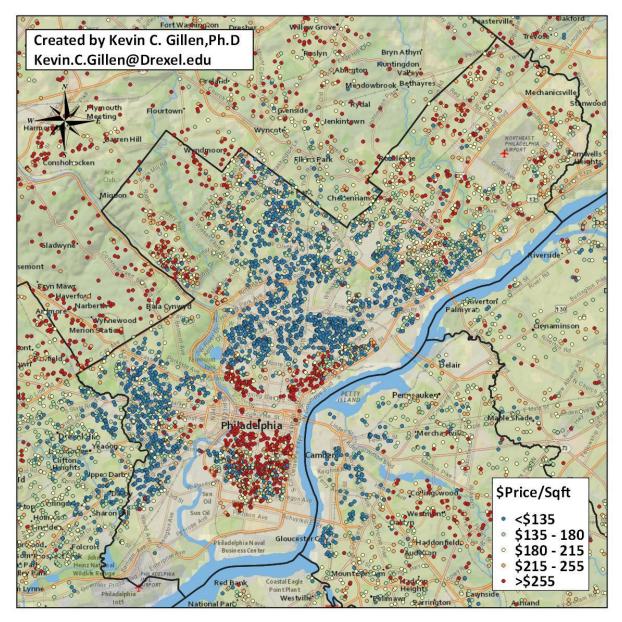


#### Philadelphia Region House Sales in 2022 Q4



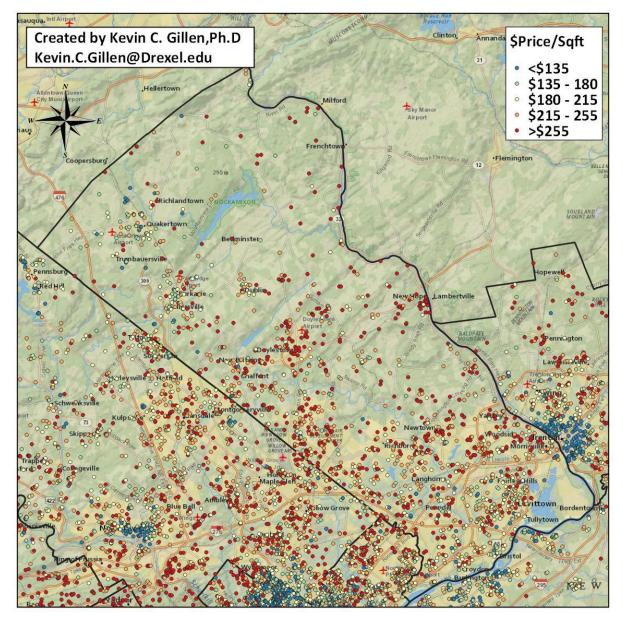


#### Philadelphia County House Sales in 2022 Q4



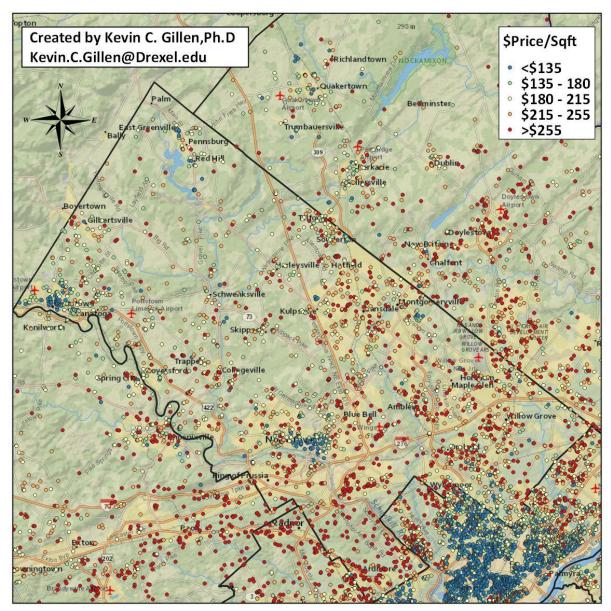


#### **Bucks County House Sales in 2022 Q4**



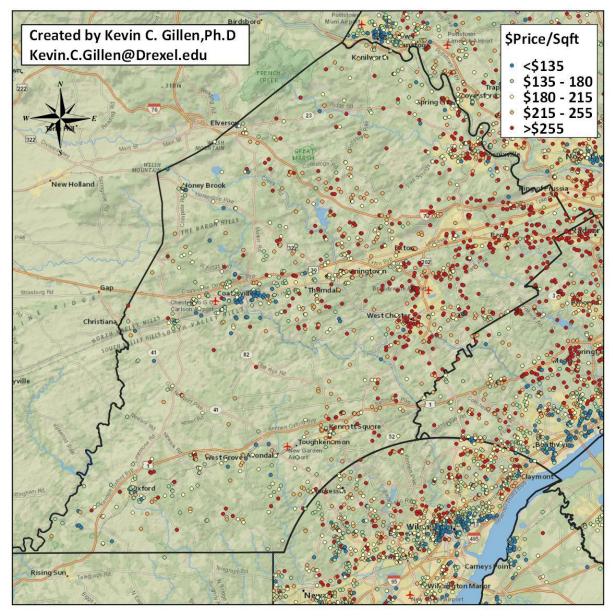


#### **Montgomery County House Sales in 2022 Q4**



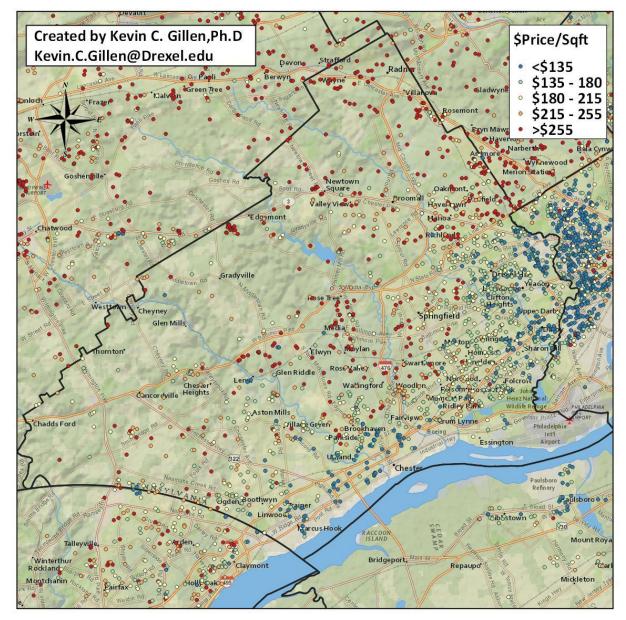


#### **Chester County House Sales in 2022 Q4**



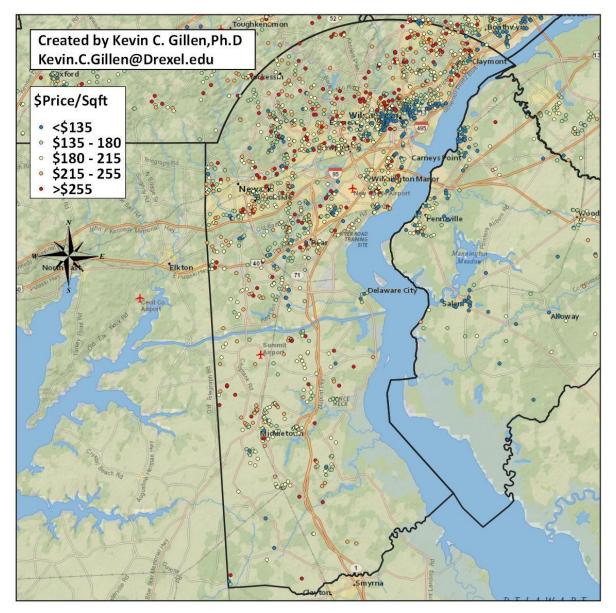


#### **Delaware County House Sales in 2022 Q4**



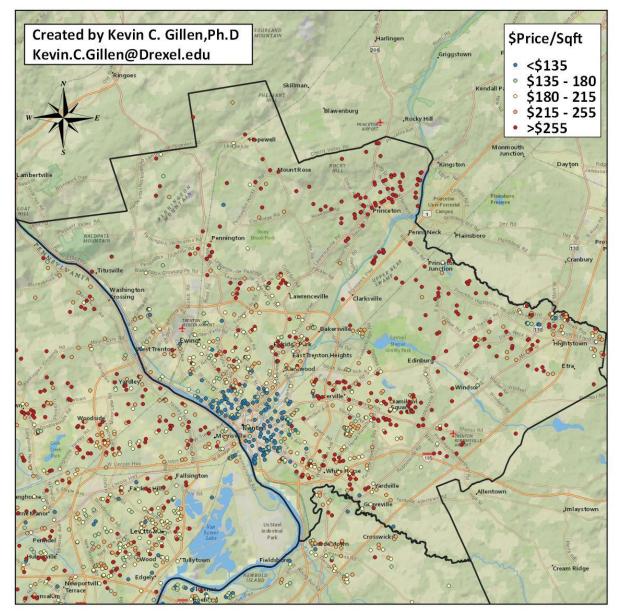


#### **New Castle County House Sales in 2022 Q4**



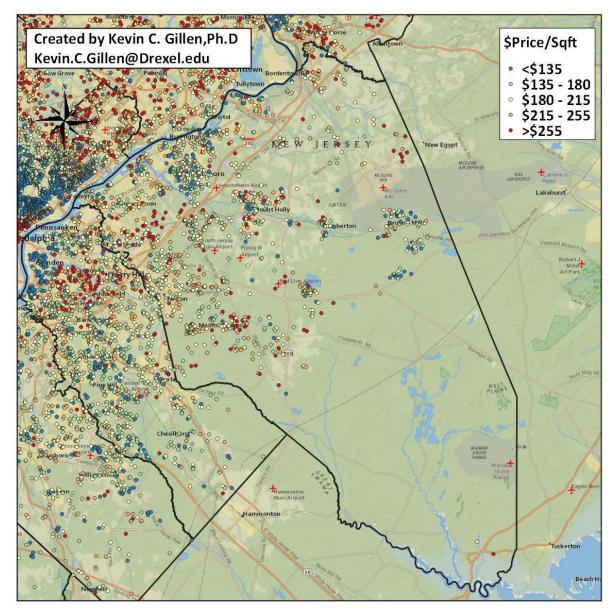


#### **Mercer County House Sales in 2022 Q4**



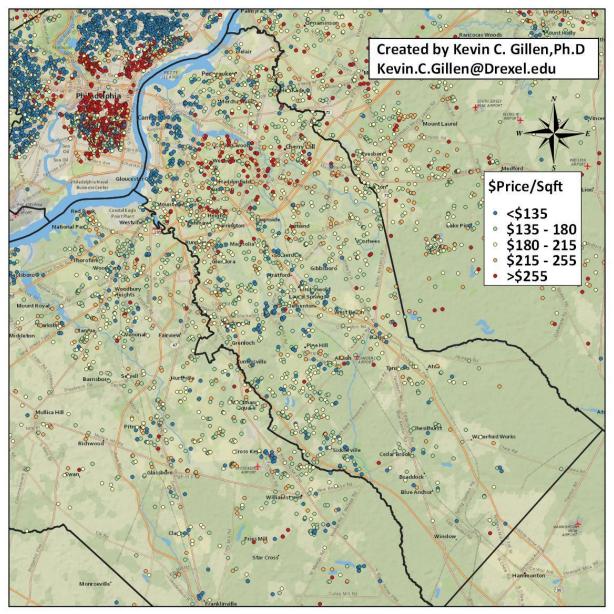


#### **Burlington County House Sales in 2022 Q4**



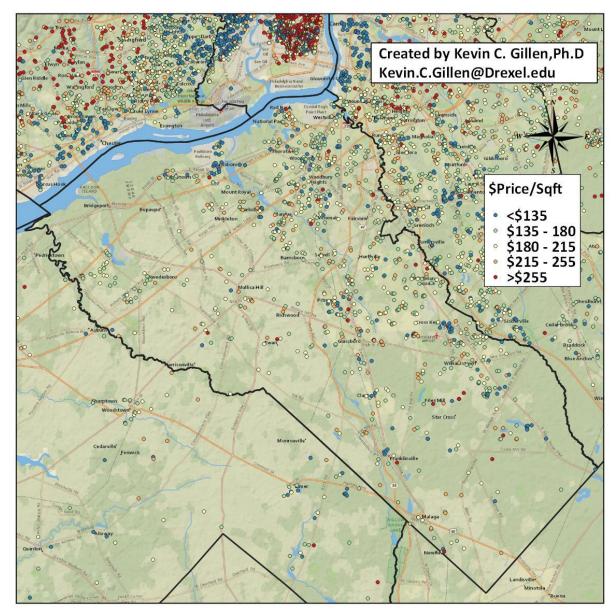


#### **Camden County House Sales in 2022 Q4**



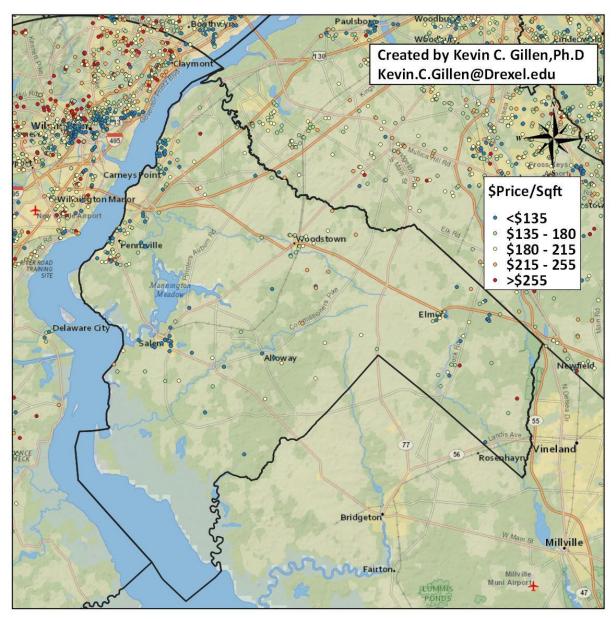


#### **Gloucester County House Sales in 2022 Q4**



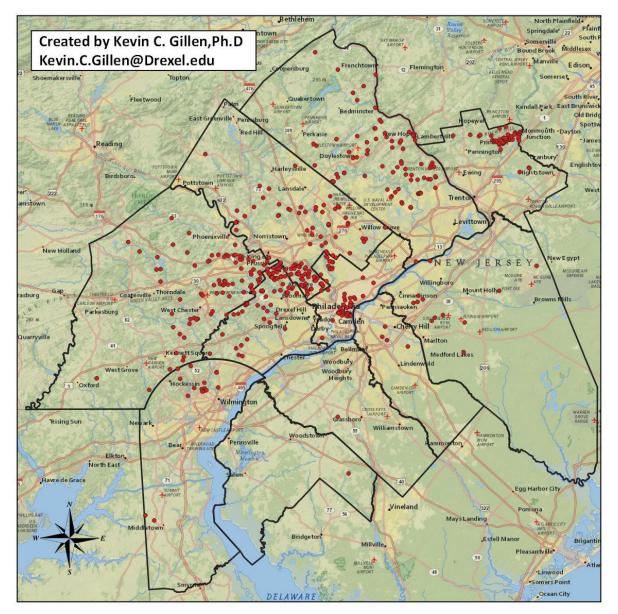


#### **Salem County House Sales in 2022 Q4**



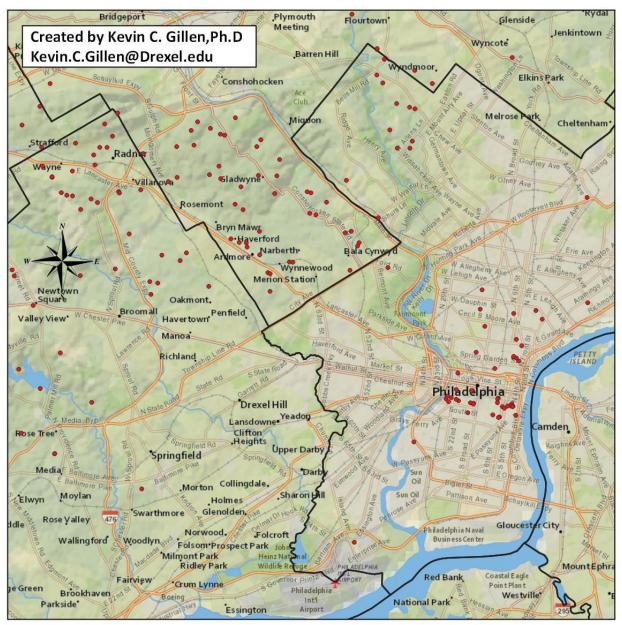


#### +\$1 Million Dollar House Sales in 2022 Q4

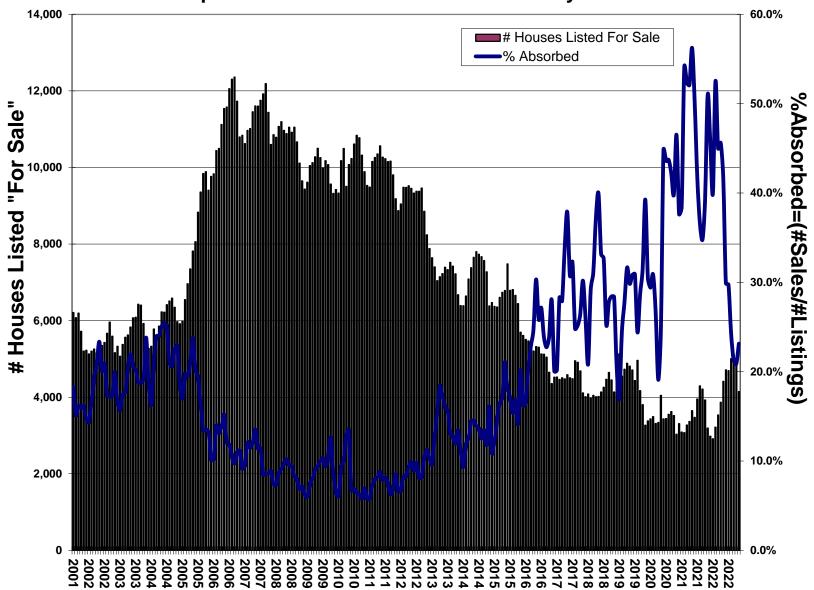




#### +\$1 Million Dollar House Sales in 2022 Q4

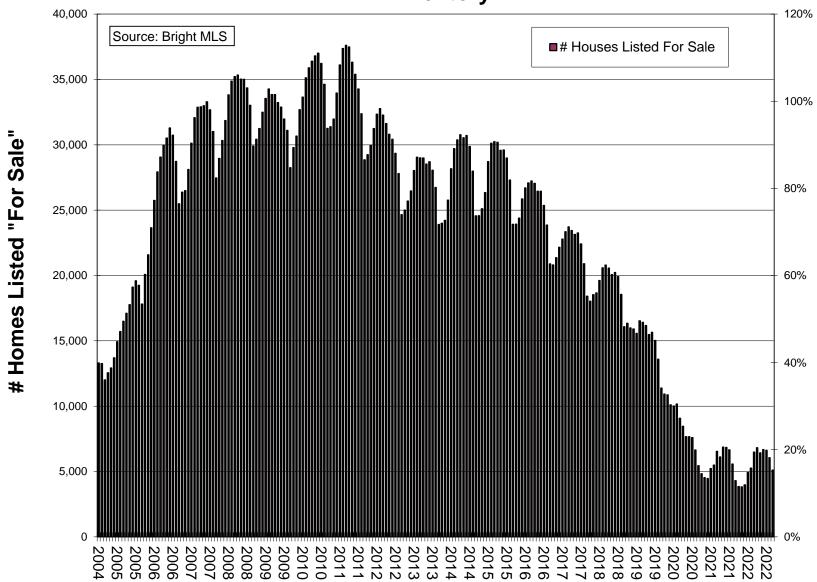


#### Philadelphia Houses Listed For Sale: Inventory v. Sales Rate

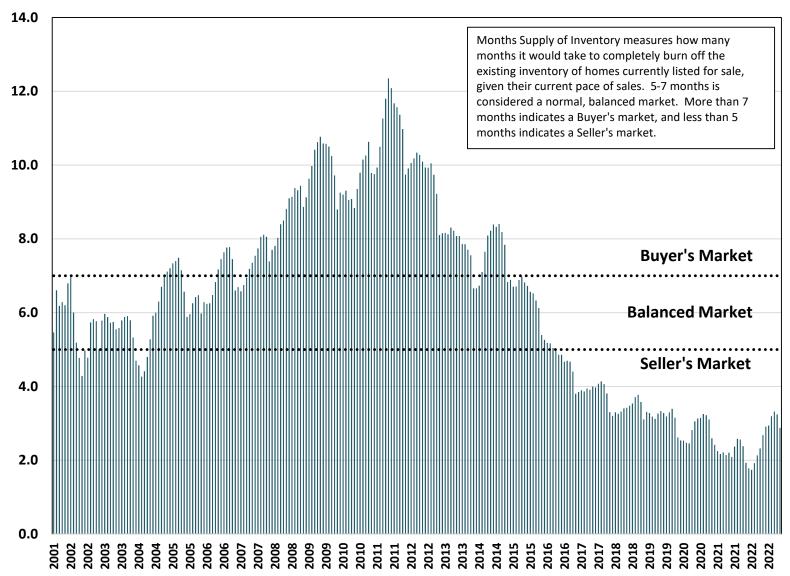




# Philadelphia Suburb's Houses Listed For Sale: Inventory

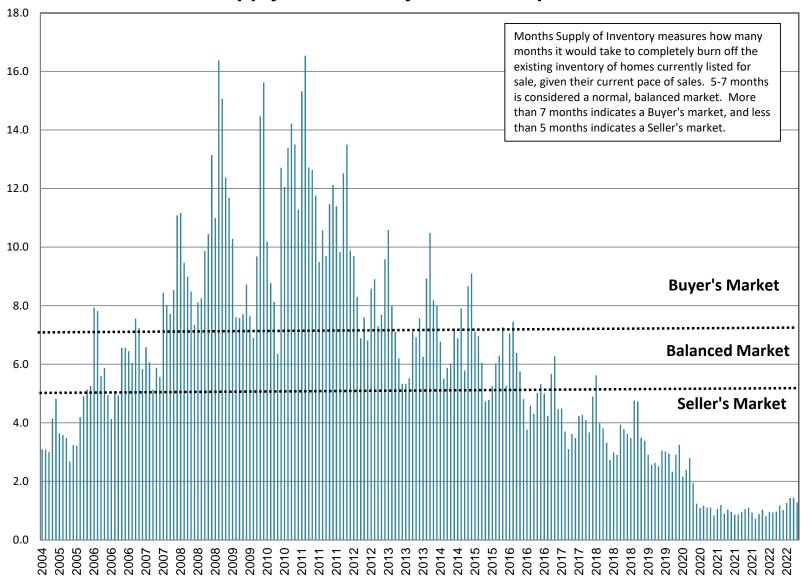


#### Months Supply of Inventory in Philadelphia



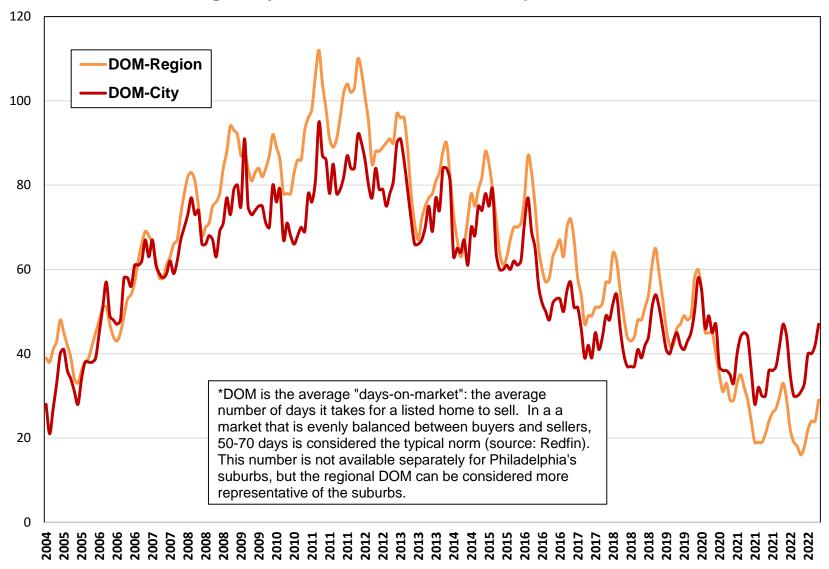


#### Months Supply of Inventory in Philadelphia Suburbs



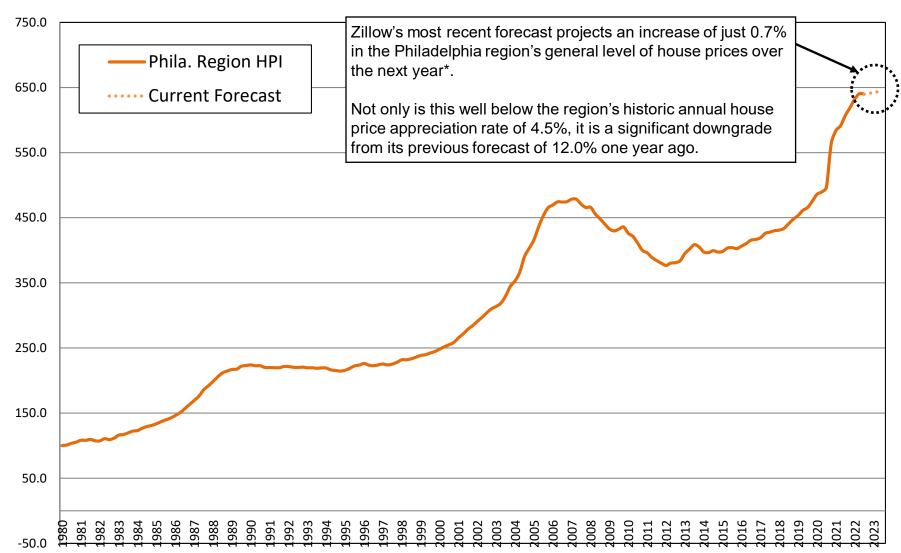


#### Average Days-on-Market\* for Philadelphia Home Sales





#### Philadelphia Region House Price Index: Actual v. Forecast



<sup>\*</sup>Note: Zillow has not updated their house price forecast since November of last year.

Their website does not explain why, but does say that it will resume.

