# PHILADELPHIA HOUSE PRICE INDICES



# July 13, 2015

# KEVIN C. GILLEN, Ph.D.

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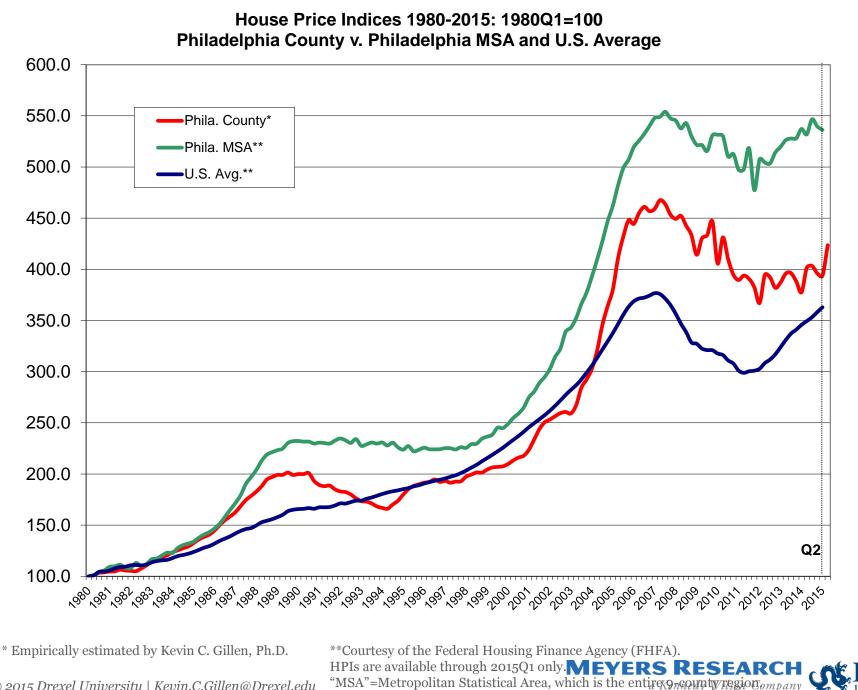
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**Disclaimers and Acknowledgments**: The Lindy Institute for Urban Innovation at Drexel University provides this report free of charge to the public. The report is produced by Lindy Senior Research Fellow Kevin Gillen, in association with Meyers Research LLC. 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.

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

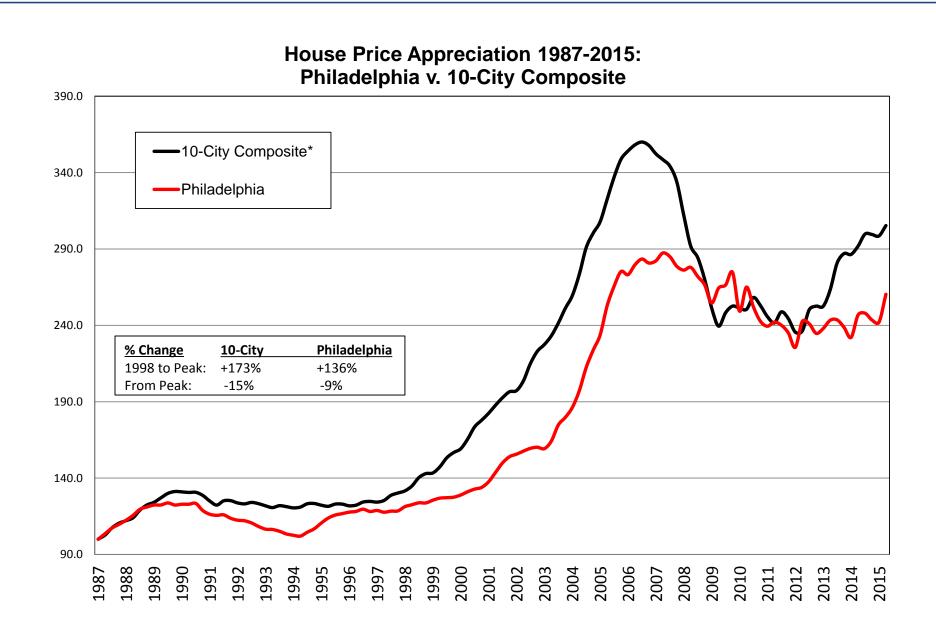
Period	Philadelphia County*	Philadelphia MSA**	<b>U.S.A.</b> **
36-Year	144.4%	167.9%	128.9%
10-Year	3.0%	14.9%	7.2%
1-Year	5.4%	-0.2%	4.8%
1-Quarter	7.3%	-0.6%	1.3%

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

\*\*Source: U.S. Federal Housing Finance Agency (FHFA). These numbers are through 2015Q1 only. "MSA"="Metropolitan Statistical Area", which is the entire 10-county region.

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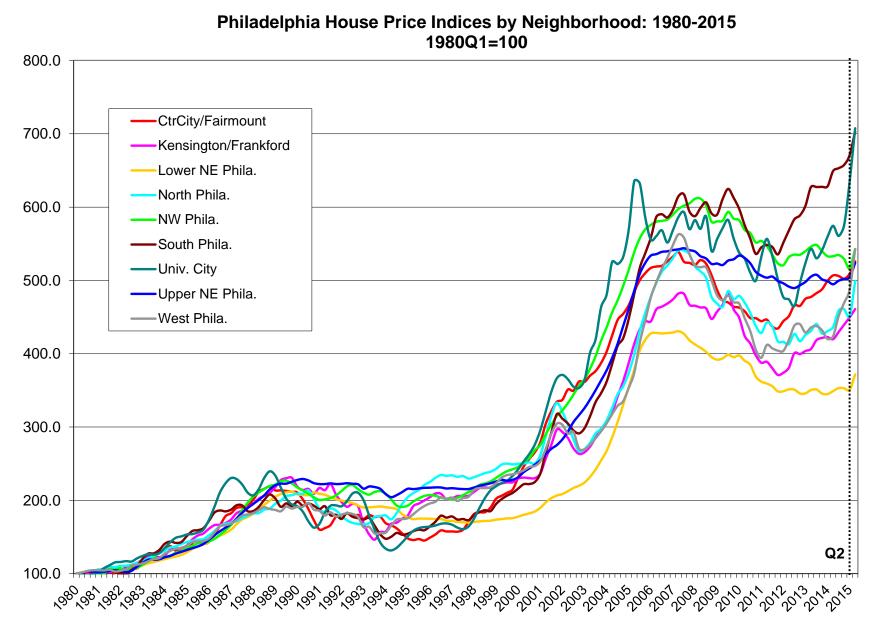
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\*Source: S&P/Case-Shiller. The 10-City Composite index includes Boston, Chicago, Denver, Las Vegas, Los Angeles, Miami, New York, San Diego, San Francisco, and Washington, DC. It does not include Philadelphia.



\* All indices empirically estimated by Kevin C. Gillen, Ph.D. © 2015 Drexel University | Kevin.C.Gillen@Drexel.edu



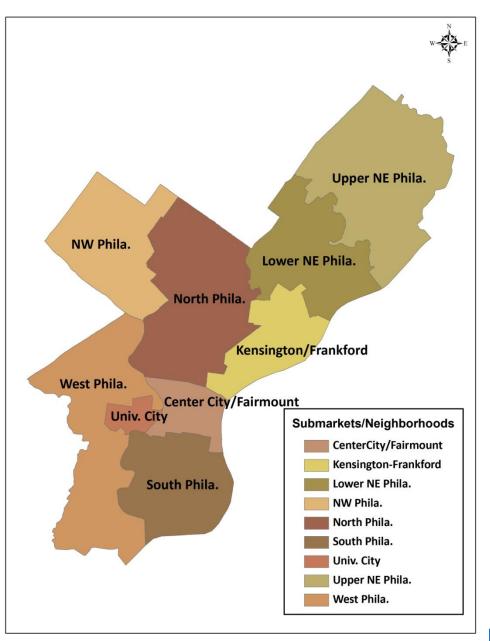
Period	Center City/ Fairmount	Kensington /Frankford	Lower NE Phila.	North Phila.	NW Phila.	South Phila.	Univ. City	Upper NE Phila.	West Phila.
36-year	166.0%	152.8%	131.3%	160.8%	169.1%	195.0%	195.7%	165.6%	169.1%
10-year	8.2%	10.9%	-1.8%	22.4%	0.8%	37.8%	10.7%	7.5%	37.3%
1-Year	3.7%	9.3%	6.3%	13.5%	1.8%	8.0%	20.8%	5.7%	24.8%
1-Quarter	3.3%	2.5%	5.8%	10.1%	4.9%	4.7%	10.9%	3.9%	10.8%

#### Philadelphia House Price Appreciation Rates by Neighborhood

This table gives the total % change in house prices by neighborhood, through 2015 Q2, from different starting points in time.



#### **Philadelphia Submarket Boundaries**

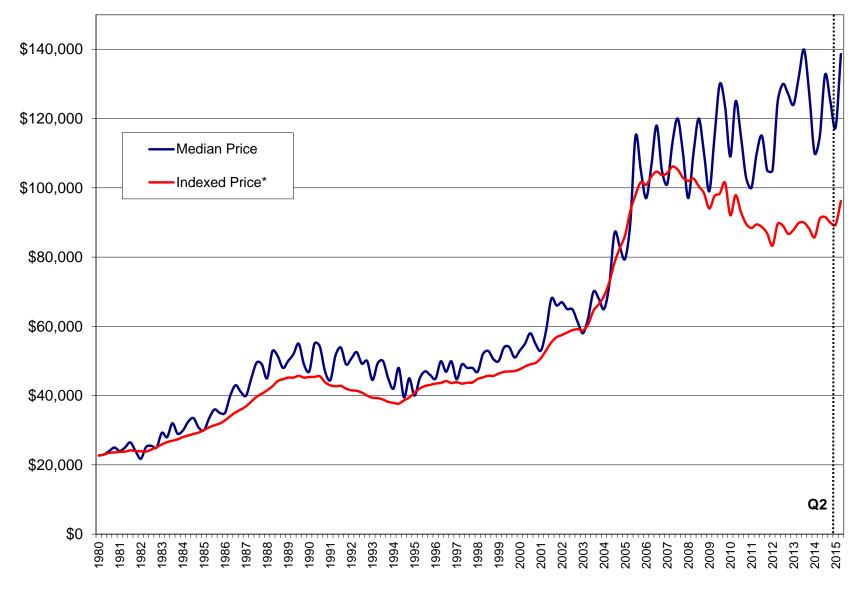


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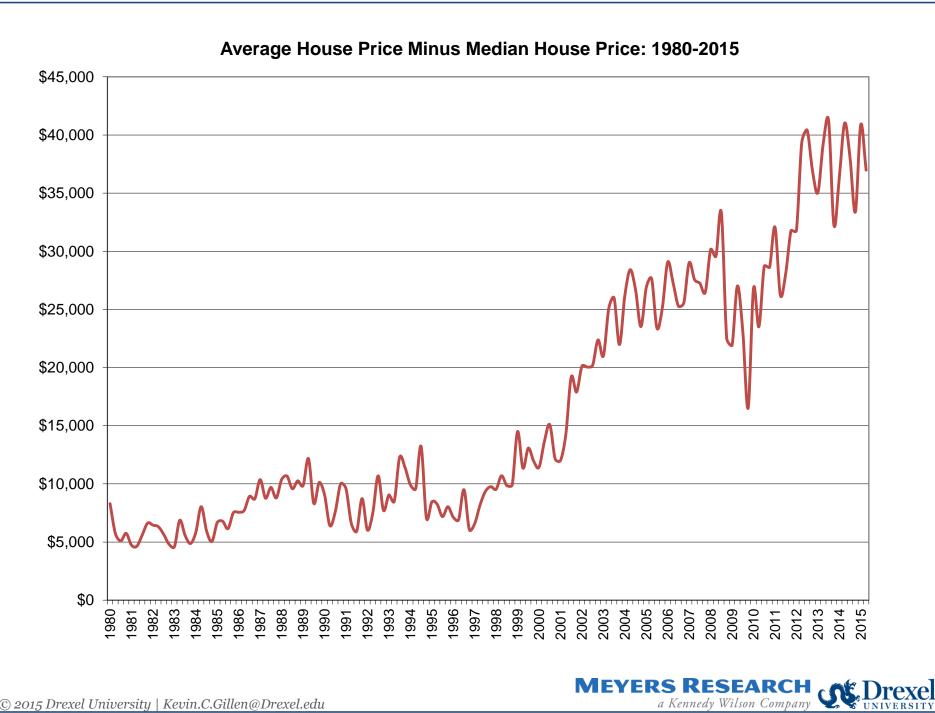
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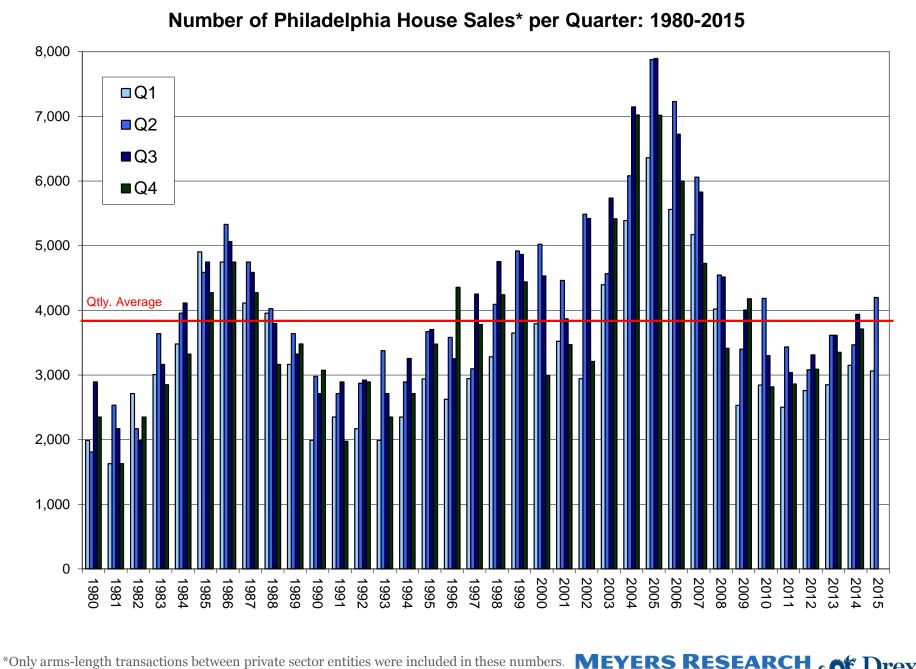
#### Median Philadelphia House Price v. Indexed Philadelphia House Price 1980-2015



\* Empirically estimated by Kevin C. Gillen, PhD © 2015 Drexel University | Kevin.C.Gillen@Drexel.edu





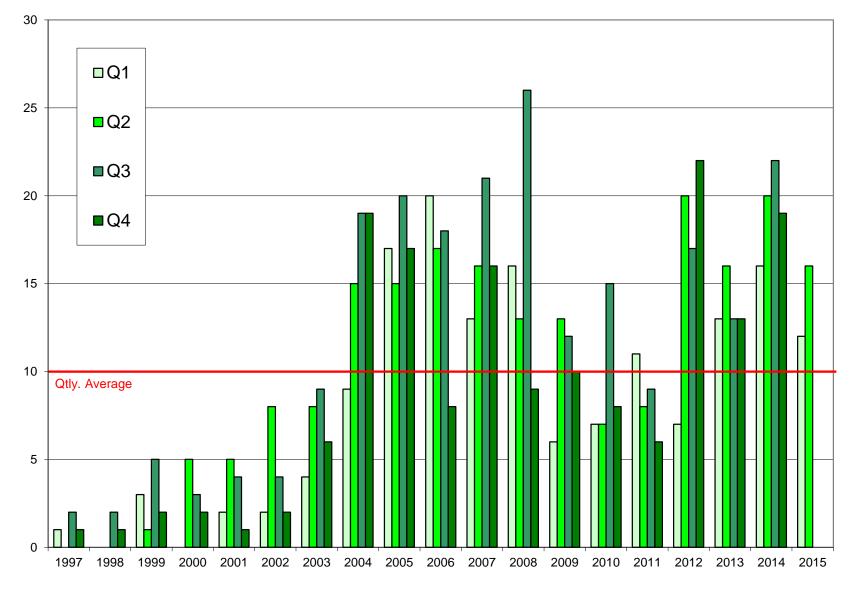


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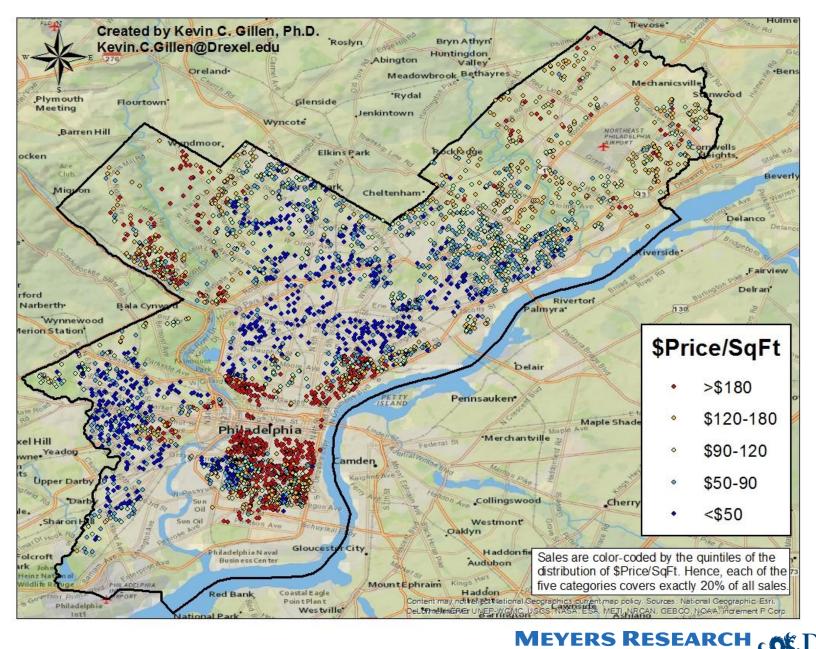
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#### Number of Philadelphia Home Sales\* per Quarter with Price>=\$1 Million: 1997-2015



\*Only arms-length transactions between private sector entities were included in these numbers. **MEYERS RESEARCH** © 2015 Drexel University | Kevin.C.Gillen@Drexel.edu

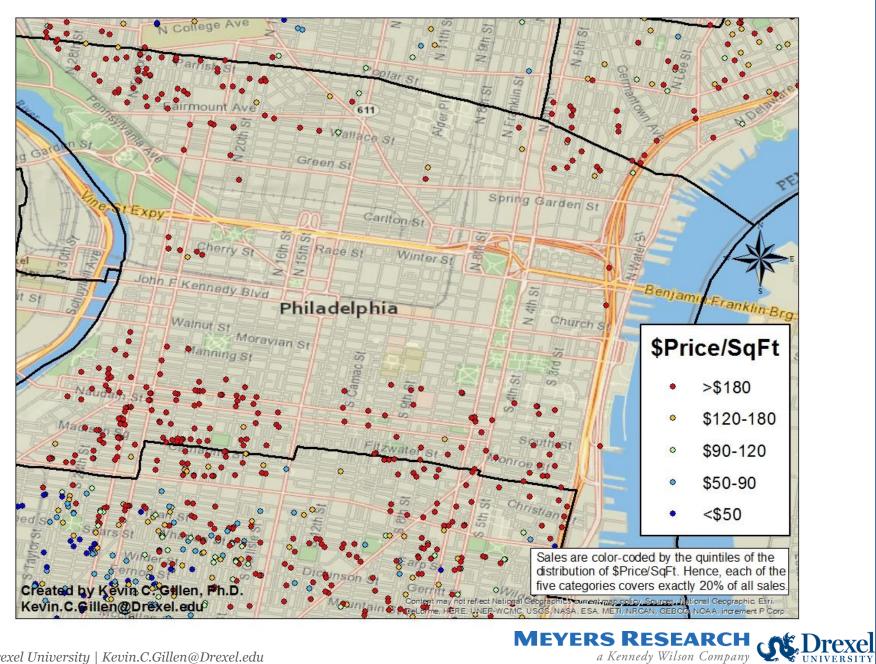
#### Philadelphia House Sales in 2015 Q2



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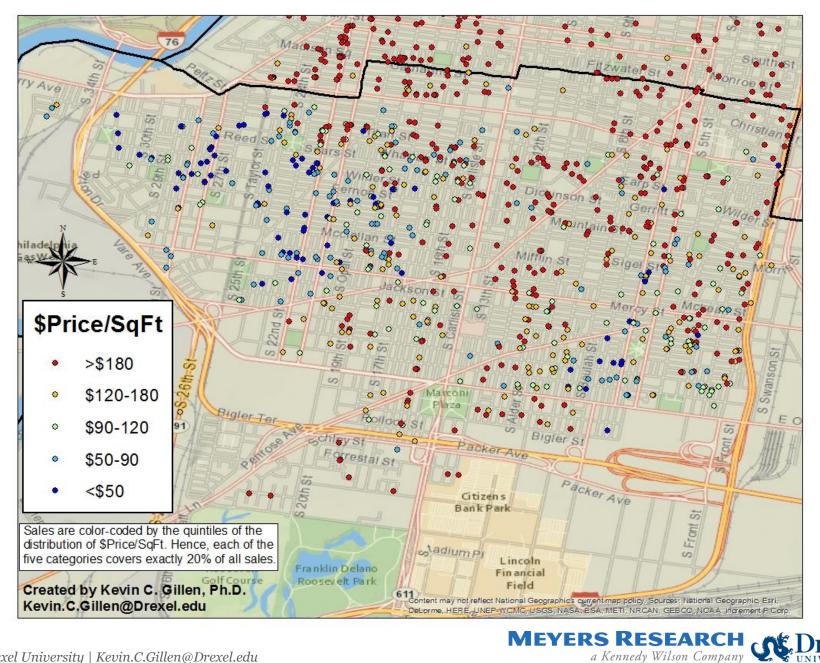
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#### **Center City House Sales in 2015 Q2**



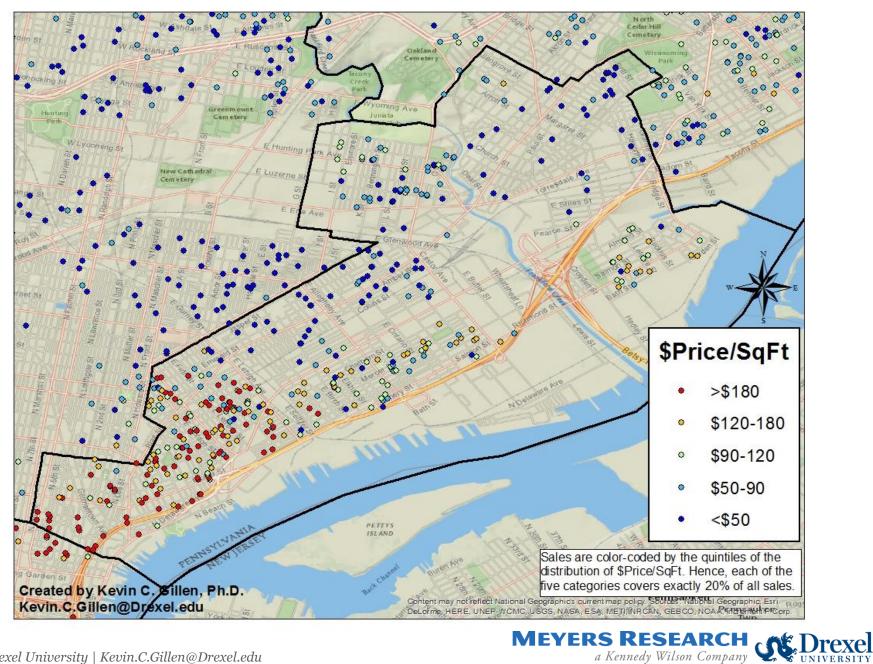
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#### South Philadelphia House Sales in 2015 Q2

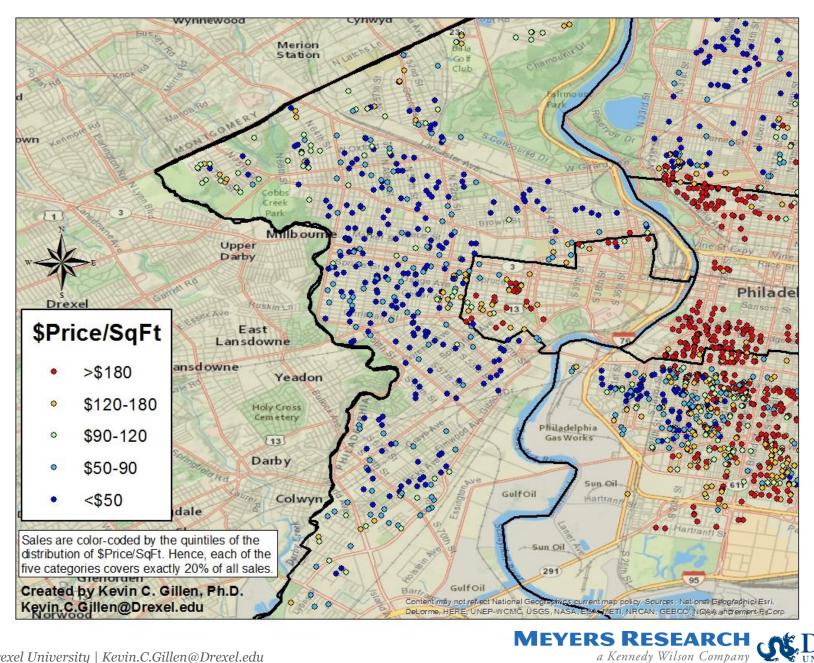


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#### Kensington/Frankford House Sales in 2015 Q2

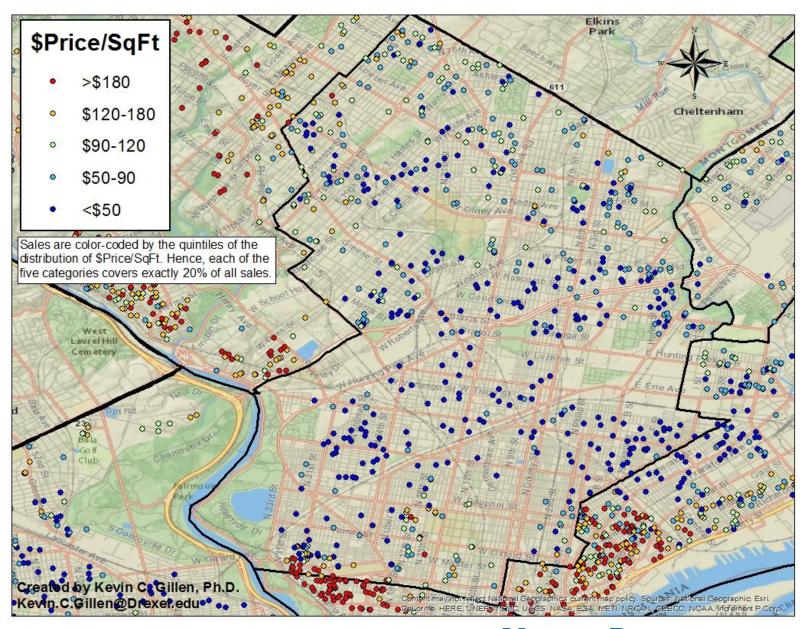


#### West Philadelphia House Sales in 2015 Q2



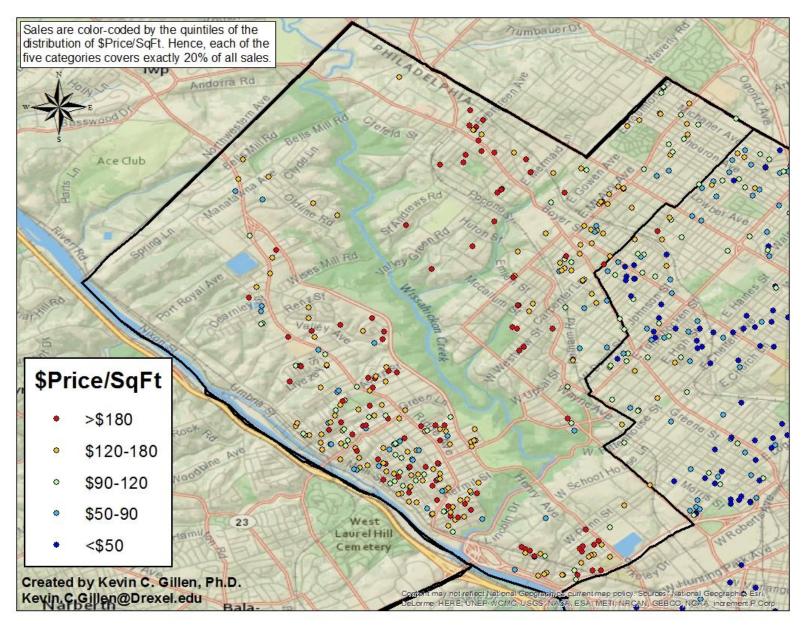
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#### North Philadelphia House Sales in 2015 Q2





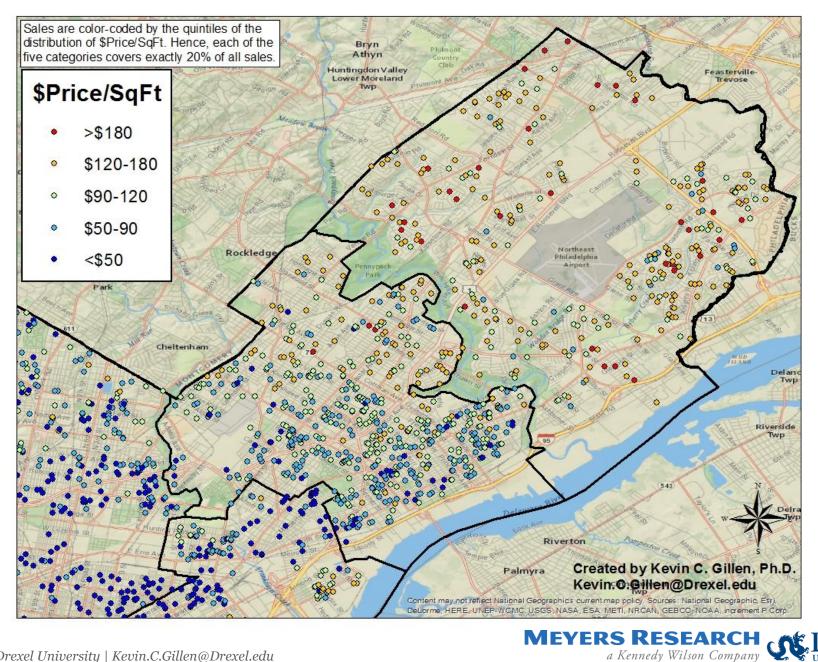
## Northwest Philadelphia House Sales in 2015 Q2



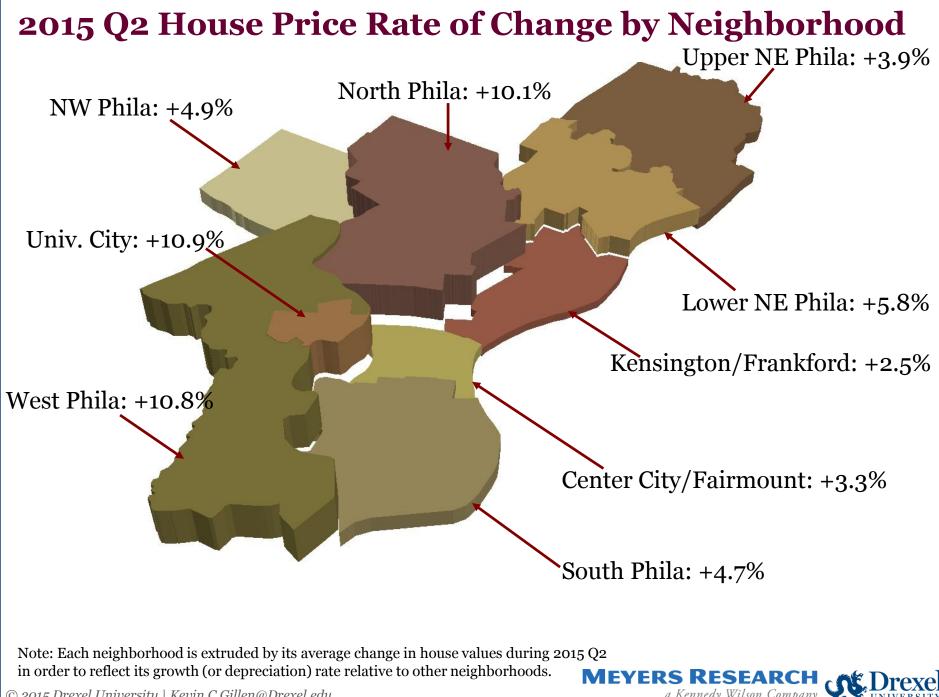
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#### Northeast Philadelphia House Sales in 2015 Q2



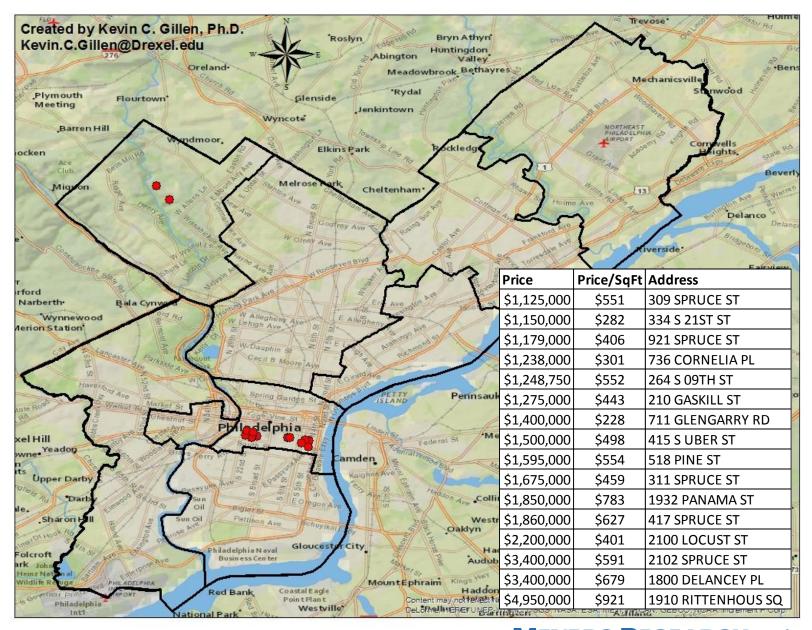
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### +\$1 Million Dollar House Sales in 2015 Q2

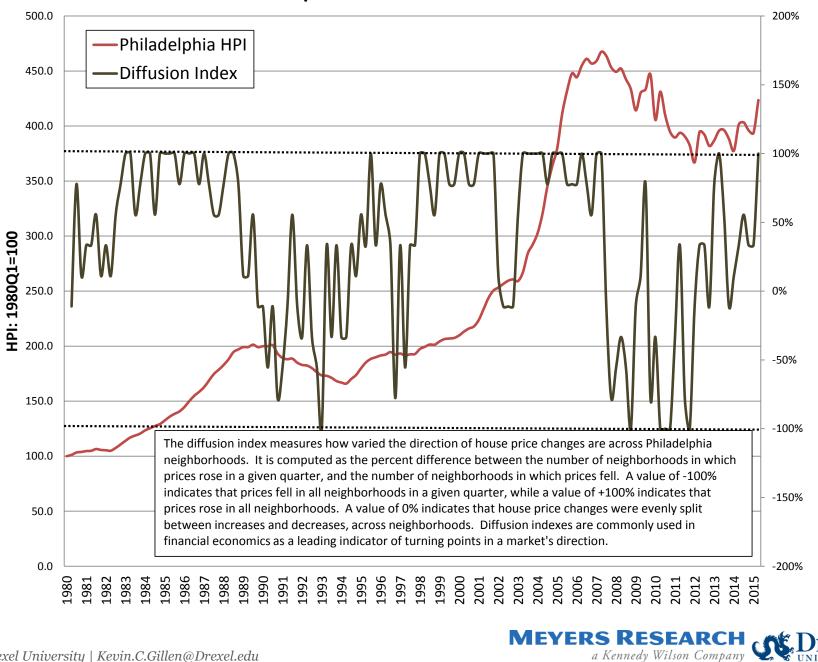


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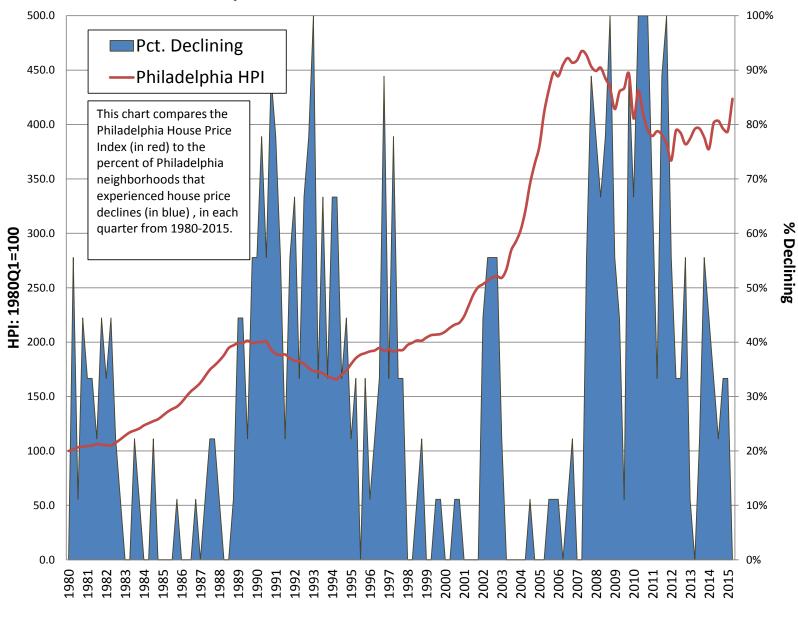
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Philadelphia House Price Diffusion Index



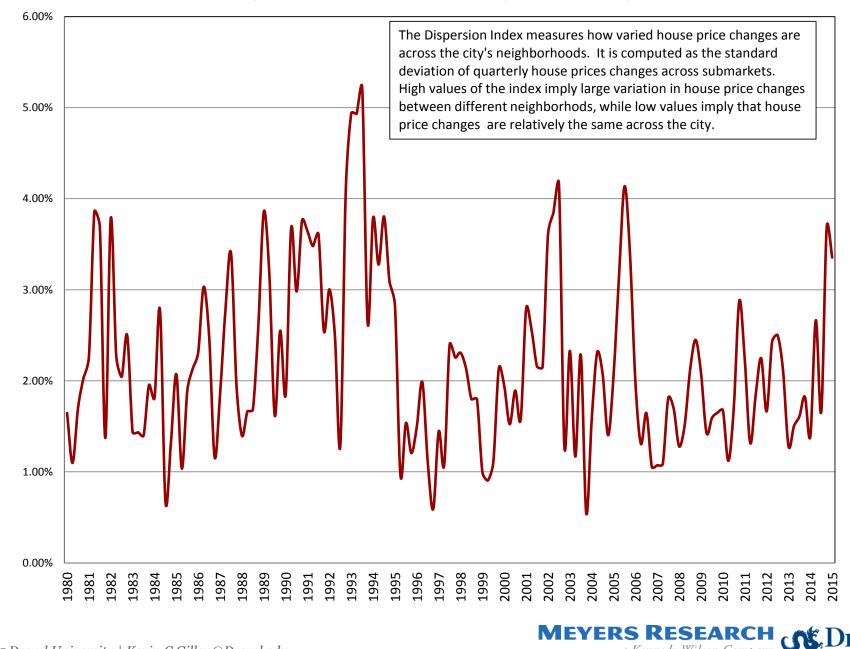
#### Philadelphia House Prices: Declines v. House Price Index



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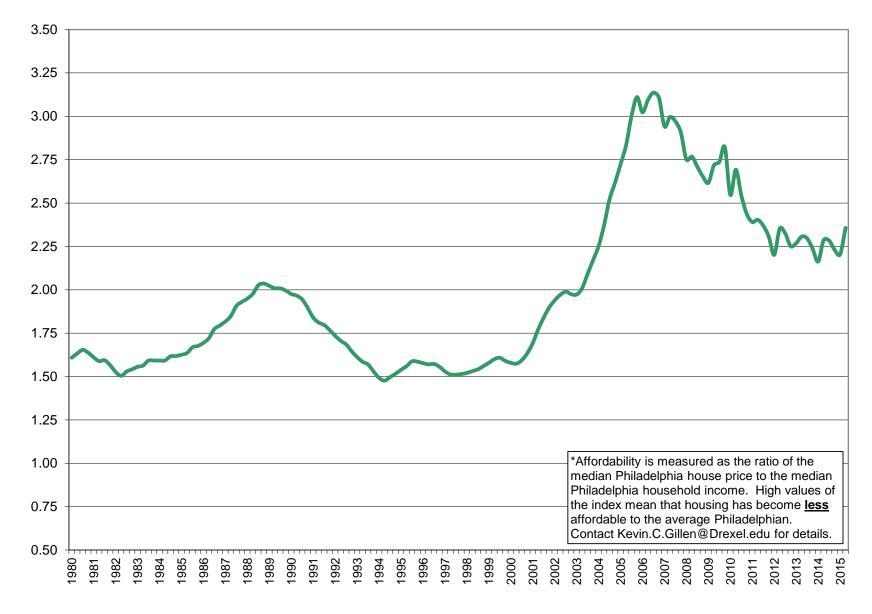
#### **Dispersion Index of Philadelphia Housing**



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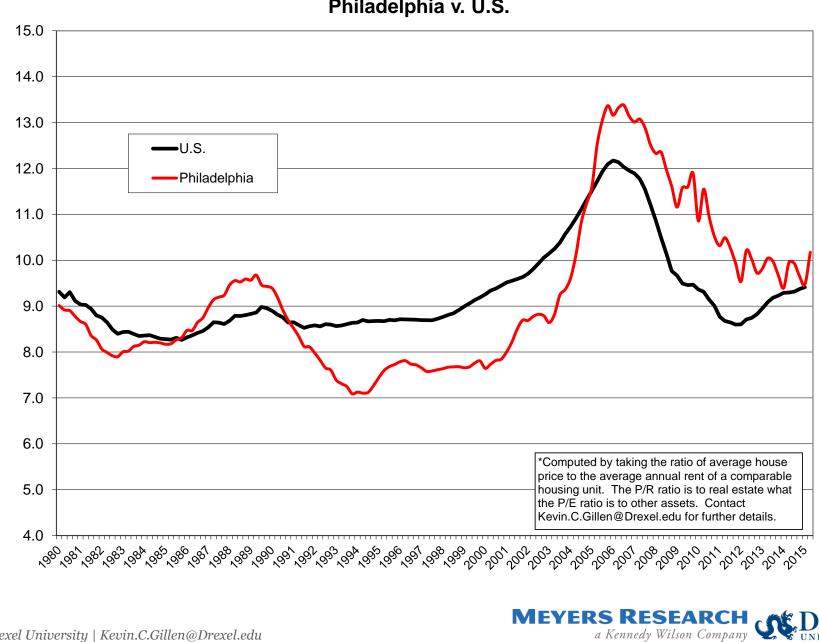
#### Philadelphia Housing Affordability\* Index: 1980-2015



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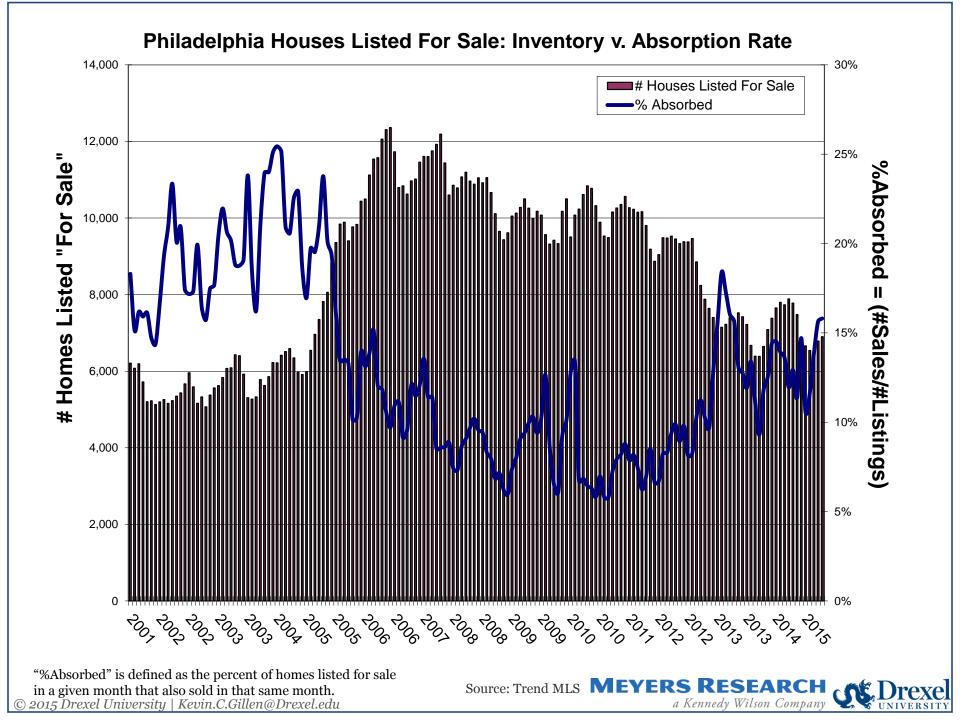


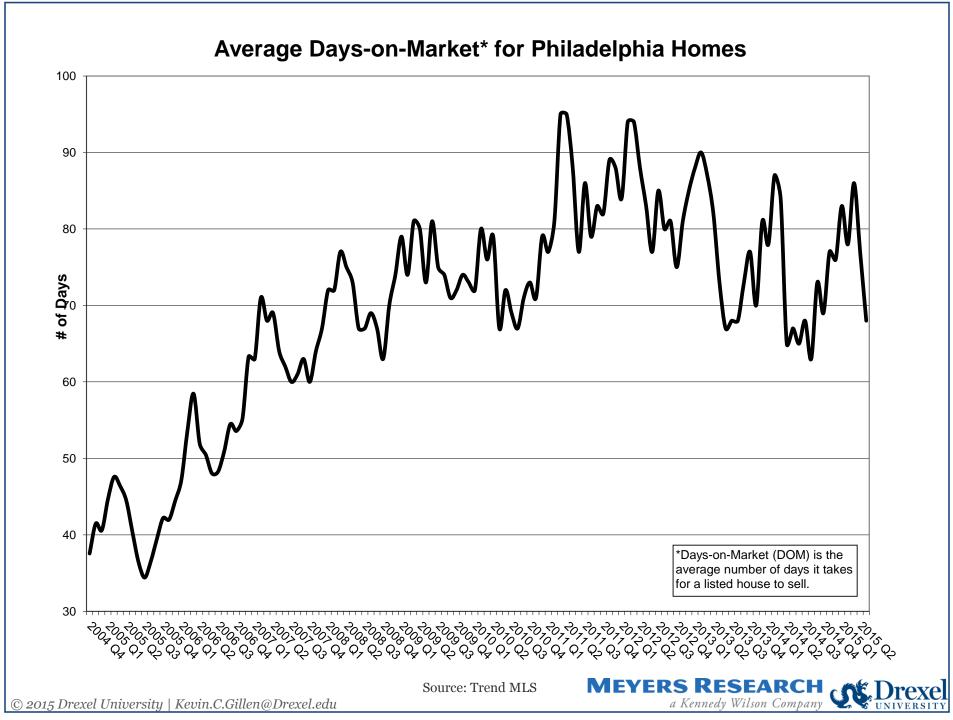
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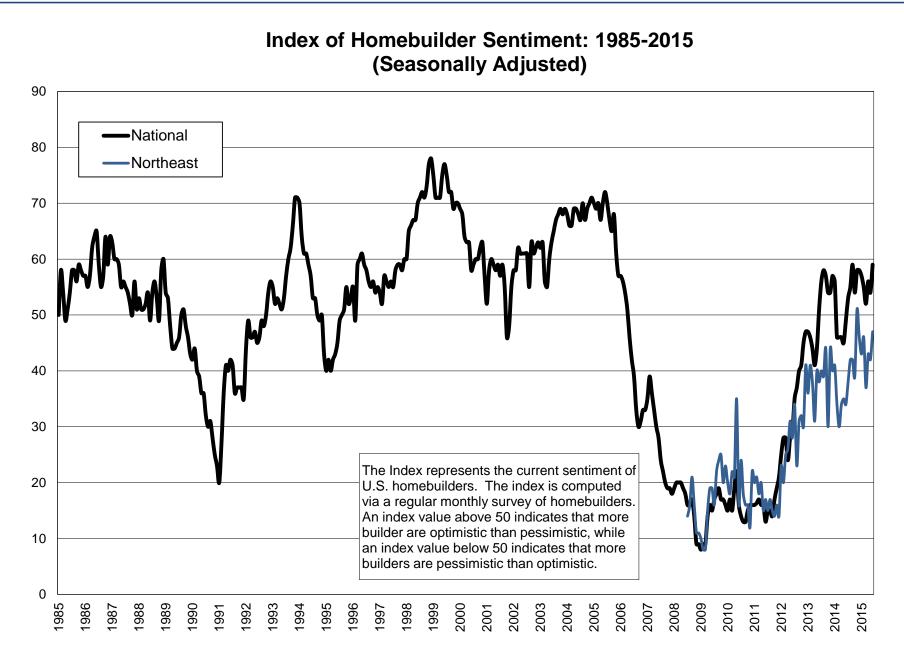
#### Average House Price-to-Rent Ratios\*: 1980-2015 Philadelphia v. U.S.

### Inflation-Adjusted\* Philadelphia House Price Index 1980-2015 1980Q1=100 200.0 180.0 160.0 140.0 120.0 100.0 80.0 Linear Trendline 60.0 40.0 \*The empirically estimated house price index is deflated by the rate of inflation over time, using the national Consumer Price Index as the proxy for the national rate of inflation. This procedure converts the house price 20.0 index from "nominal" to "real" terms, and thus shows house price changes net of general inflation. 0.0 Source: US Bureau of Labor Statistics



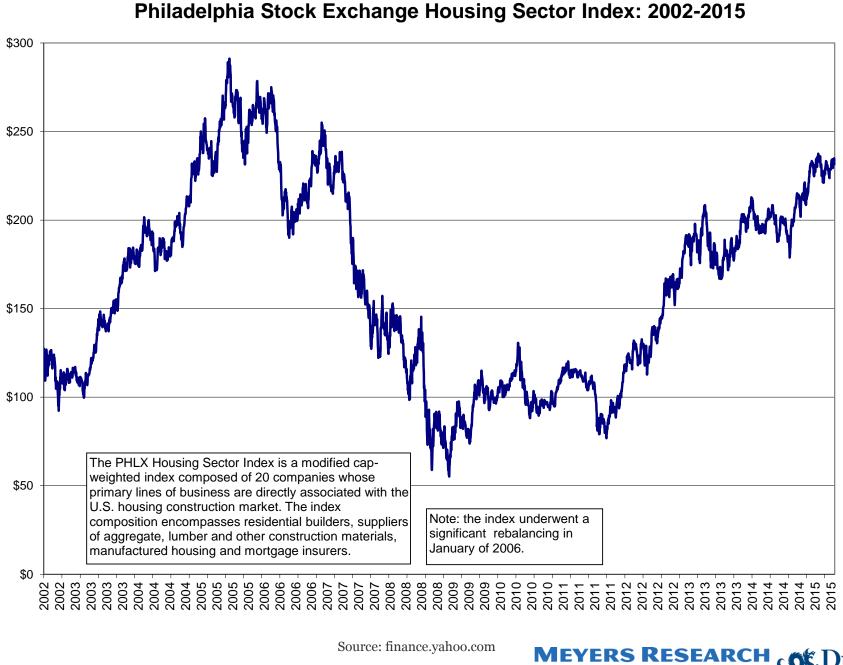






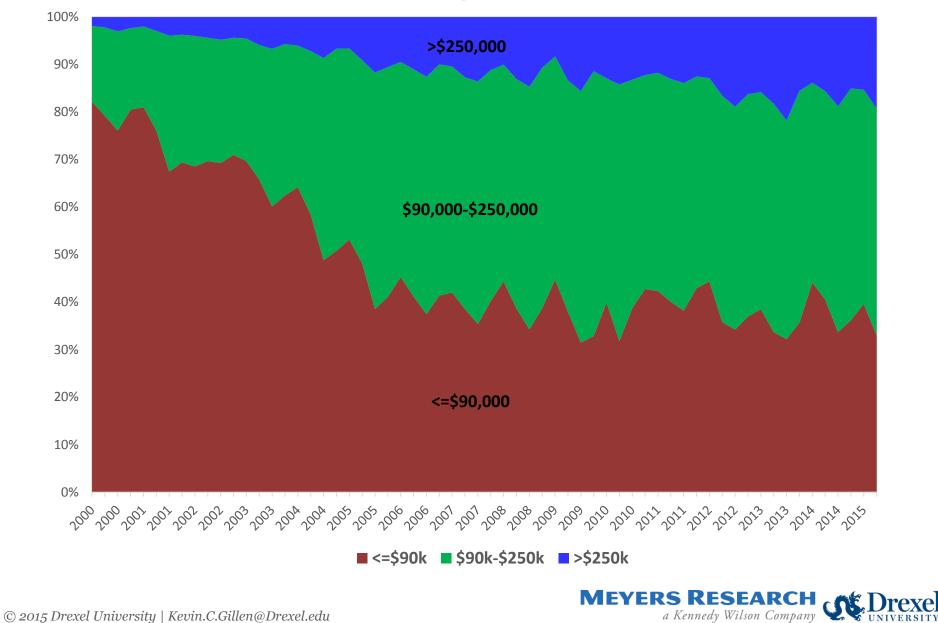
Source: National Assoc. of Homebuilders (NAHB)/Wells Fargo



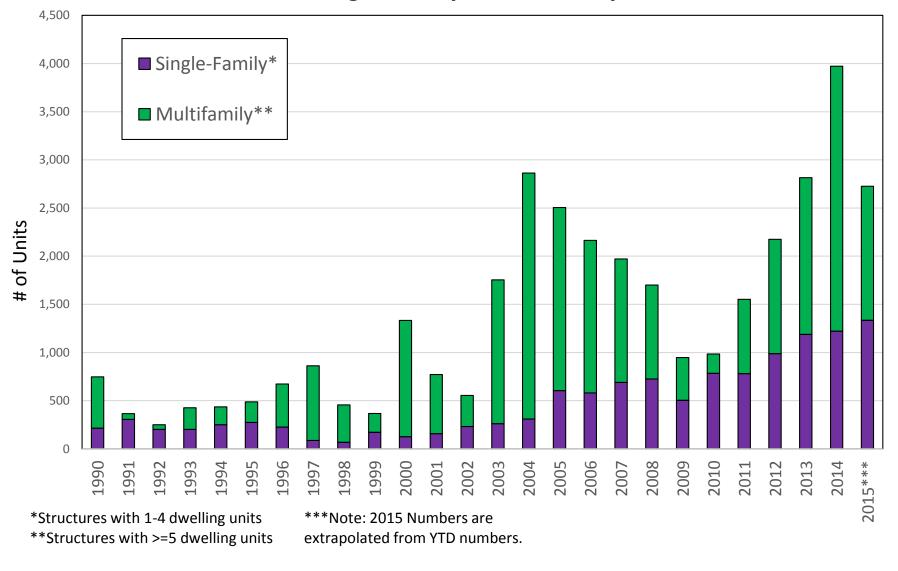


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#### %Market Share of Philadelphia Home Sales by Price Category: 2000-2015



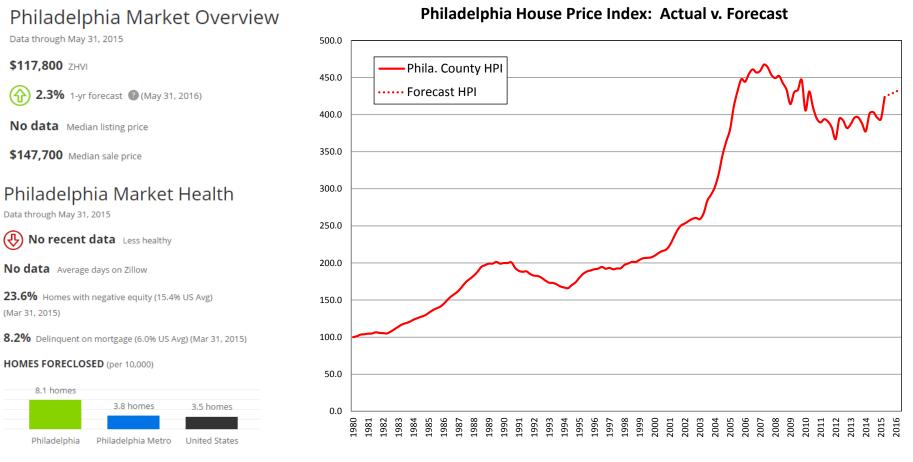
## Building Permits Issued for Construction of Residential Units: Single-Family v. Multifamily



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# Philadelphia House Price Index and 1-Year Forecast



Zillow.com is currently forecasting Philadelphia house prices to rise an average of 2.3% over the next year, which is unchanged from its previous forecast from one quarter ago, but remains an upgrade of its 2014 Q4 forecast of 0.5%.

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

