PHILADELPHIA REGIONAL HOUSE PRICE INDICES

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KEVIN C. GILLEN, Ph.D.
Kevin.C.Gillen@Drexel.edu

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1980Q1=100

*Empirically estimated by Kevin C. Gillen, PhD

**Courtesy Federal Housing Finance Agency (FHFA)
House Price Appreciation 1987-2015:
Philadelphia Region v. 10-City U.S. Composite

% Change
1998 to Peak:  +172%  +106%
From Peak:    -14%    -14%

*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.
by Philadelphia Area Submarket and U.S.: 1980Q1=100

*Empirically estimated by Kevin C. Gillen, PhD
**Courtesy Federal Housing Finance Agency (FHFA)

Note: The suburban index includes all counties in the regional index, except for Philadelphia county.
## Total House Price Appreciation Rates by Philadelphia Area Submarket and U.S.

<table>
<thead>
<tr>
<th>Period</th>
<th>Philadelphia Region*</th>
<th>Philadelphia County*</th>
<th>Philadelphia Suburbs*</th>
<th>U.S.A.**</th>
</tr>
</thead>
<tbody>
<tr>
<td>36-Year</td>
<td>141.8%</td>
<td>144.4%</td>
<td>140.8%</td>
<td>128.9%</td>
</tr>
<tr>
<td>10-Year</td>
<td>-5.7%</td>
<td>3.0%</td>
<td>-8.6%</td>
<td>7.2%</td>
</tr>
<tr>
<td>1-Year</td>
<td>2.1%</td>
<td>5.4%</td>
<td>1.0%</td>
<td>4.8%</td>
</tr>
<tr>
<td>1-Quarter</td>
<td>5.8%</td>
<td>7.3%</td>
<td>5.2%</td>
<td>1.3%</td>
</tr>
</tbody>
</table>

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

**Source: Federal Housing Finance Agency (FHFA). FHFA numbers are through 2015 Q1 only.
Philadelphia Regional House Price Indices 1980-2015, by County
1980Q1=100

*All indices empirically estimated by Kevin C. Gillen, PhD

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## Philadelphia Region House Price Appreciation Rates by County

<table>
<thead>
<tr>
<th>Period</th>
<th>Philadelphia</th>
<th>Bucks</th>
<th>Chester</th>
<th>Delaware</th>
<th>Montgomery</th>
<th>New Castle</th>
<th>Mercer</th>
<th>Burlington</th>
<th>Camden</th>
<th>Gloucester</th>
<th>Salem</th>
</tr>
</thead>
<tbody>
<tr>
<td>36-Year</td>
<td>144.4%</td>
<td>159.3%</td>
<td>156.5%</td>
<td>133.6%</td>
<td>147.9%</td>
<td>132.6%</td>
<td>159.7%</td>
<td>123.0%</td>
<td>120.1%</td>
<td>136.3%</td>
<td>120.0%</td>
</tr>
<tr>
<td>10-Year</td>
<td>3.0%</td>
<td>-7.7%</td>
<td>2.6%</td>
<td>-10.6%</td>
<td>-3.7%</td>
<td>-11.6%</td>
<td>-5.9%</td>
<td>-19.9%</td>
<td>-21.2%</td>
<td>-10.1%</td>
<td>-24.7%</td>
</tr>
<tr>
<td>1-Year</td>
<td>5.4%</td>
<td>3.0%</td>
<td>5.4%</td>
<td>-0.6%</td>
<td>4.1%</td>
<td>4.6%</td>
<td>-4.5%</td>
<td>0.4%</td>
<td>-1.8%</td>
<td>0.9%</td>
<td>-2.4%</td>
</tr>
<tr>
<td>1-Quarter</td>
<td>7.3%</td>
<td>6.4%</td>
<td>6.1%</td>
<td>9.9%</td>
<td>6.8%</td>
<td>6.9%</td>
<td>3.2%</td>
<td>2.1%</td>
<td>3.1%</td>
<td>4.6%</td>
<td>-3.8%</td>
</tr>
</tbody>
</table>

All county-level indices and appreciation rates estimated by Kevin C. Gillen, Ph.D.
Note: Each county is extruded by its average change in house values during 2015 Q2 in order to reflect its growth (or depreciation) rate relative to other counties.
Median Regional House Price v. Indexed Regional House Price

*Empirically estimated by Kevin C. Gillen, PhD
Median House Price by County: 1980-2015

The chart shows the median house price by county from 1980 to 2015. The x-axis represents the years from 1980 to 2015, and the y-axis represents the price range from $0 to $400,000. Each county is represented by a different color line, with New Castle in purple, Mercer in green, Burlington in dark green, Camden in light green, Gloucester in green, Salem in gray, Bucks in dark blue, Chester in blue, Delaware in light blue, Montgomery in purple, and Philadelphia in red. The chart illustrates the trend and variation in median house prices across these counties over the specified period.
Number of Regional House Sales per Quarter: 2005-2015
Number of Regional House Sales 2005-2015 with Price>= $1m

Qtly. Average
Philadelphia Region House Sales in 2015 Q2

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.

$Price/SqFt
- $>175
- $140-175
- $115-140
- $80-115
- $<80
Philadelphia County House Sales in 2015 Q2

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.
$Price/SqFt

- $>175
- $140-175
- $115-140
- $80-115
- <$80

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.
Montgomery County House Sales in 2015 Q2

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

- >$175
- $140-175
- $115-140
- $80-115
- <$80
Chester County House Sales in 2015 Q2

$Price/SqFt
- >$175
- $140-175
- $115-140
- $80-115
- <$80

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.
Delaware County House Sales in 2015 Q2

$\text{Price/SqFt}$
- $>175$
- $140-175$
- $115-140$
- $80-115$
- $<80$

Sales are color-coded by the quintiles of the distribution of $\text{Price/SqFt}$. Hence, each of the five categories covers exactly 20% of all sales.
New Castle County House Sales in 2015 Q2

Sales are color-coded by the quintiles of the distribution of $\text{Price}/\text{SqFt}$. Hence, each of the five categories covers exactly 20% of all sales.
Mercer County House Sales in 2015 Q2

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.
Burlington County House Sales in 2015 Q2

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.
Camden County House Sales in 2015 Q2

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.
Gloucester County House Sales in 2015 Q2

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.
+$1 Million Dollar House Sales in 2015 Q2

Created by Kevin C. Gillen, Ph.D.
Kevin.C.Gillen@Drexel.edu
Philadelphia Region Houses Listed For Sale: Inventory v. Sales Rate

Source: TrendMLS

# Houses Listed "For Sale" vs. % Absorbed

% Sold = (#Sales/#Listings)
DOM is the average "days-on-market": the average number of days it takes for a listed home to sell. In a market that is evenly balanced between buyers and sellers, 40-60 days is considered the typical norm.
Philadelphia Region Months of Supply*: Houses v. Condos

*Months of Supply is how many months it would take to sell off the current inventory of listed homes, given the current pace of sales.
Pennsylvania Foreclosure Rates

1 out of every 610 homes in Philadelphia is currently in the process of foreclosure, which is up from 1 out of every 758 homes in the previous quarter.

In the entire Commonwealth, 1 out of every 858 homes in Pennsylvania is in the process of foreclosure, which is also up from 1 out of every 1,217 homes in the previous quarter.

Source: http://www.realtytrac.com/statsandtrends/foreclosuretrends/pa
Although South Jersey’s foreclosure rate remains higher than Pennsylvania’s, it is currently trending down while Pennsylvania’s is trending up.

Currently, 1 out of every 371 homes in Atlantic County is in the process of foreclosure, down from 1 out of every 255 homes in the previous quarter. And 1 out of every 383 homes in Camden County is in the process of foreclosure, which is also down from 1 out of every 355 homes in the previous quarter.

Just 6 months ago, 1 out of every 188 homes in South Jersey was in the process of foreclosure.
Delaware Foreclosure Rates

Delaware continues to not only have the lowest overall foreclosure rate in the Tri-State area, but its foreclosure rate is also generally trending downwards:

- 1 out of every 1,433 homes in New Castle County, down from 1 out of every 783 homes in the previous quarter.
- 1 out of every 694 homes in Kent County, down from 1 out of every 659 homes in the previous quarter
- 1 out of every 1,365 homes in Sussex County, down from 1 out of every 1,109 homes in the previous quarter
- An average of 1 out of every 1,207 homes Statewide, down from 1 out of every 832 homes in the previous quarter.

Source: http://www.realtytrac.com/statsandtrends/foreclosuretrends/de
Now that the housing market's recovery appears to have arrived, this chart shows how much house prices need to rise in each city in order to erase the cumulative losses from the bust. The total rebound (to date) in house prices is shown by the blue bars, while the remaining losses are shown by the red bars. For example, the Philadelphia Region's average house prices fell by a cumulative 23% from peak to trough. To date, they have rebounded by 9%, which implies they need to rise another 14% in order to return to their pre-bust peak levels.

Source: Kevin C. Gillen, Ph.D.  All other cities courtesy S&P/Case-Shiller.