Eastern Ohio Shale & Housing Dashboard - October 1, 2016

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Eastern Ohio Shale & Housing Dashboard
October 1, 2016

Potentially Created Jobs by County

<table>
<thead>
<tr>
<th>County</th>
<th>Number of Jobs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belmont</td>
<td></td>
</tr>
<tr>
<td>Harrison</td>
<td></td>
</tr>
<tr>
<td>Carroll</td>
<td></td>
</tr>
<tr>
<td>Monroe</td>
<td></td>
</tr>
<tr>
<td>Jefferson</td>
<td></td>
</tr>
<tr>
<td>Guernsey</td>
<td></td>
</tr>
<tr>
<td>Noble</td>
<td></td>
</tr>
<tr>
<td>Columbiana</td>
<td></td>
</tr>
</tbody>
</table>

Shale Indicators

**New Well Count**
Source: ODNR
- Quarter 3: +25%
- Year Change: -14%

**Employment**
Source: CSU
- Quarter 3: -34%
- Year Change: -54%

**WTI Oil Price per Barrel**
Source: FRED
- Quarter 3: +2%
- Year Change: +37%

**Sales Tax**
Source: Department of Taxation (Quarter 2)
- Quarter 2: +0.3%
- Year Change: +22%

Housing Indicators

**Number of Home Sales**
Source: MLS
- Quarter 2: +38%
- Year Change: +13%

**Median Sale Price**
Source: MLS
- Quarter 2: +19%
- Year Change: +7%

**Median Days on Market**
Source: MLS
- Quarter 2: -4%
- Year Change: -2%

**Multifamily Rent per Square Foot**
Source: Costar
- Year Change: +1%
- Year Change: +3%

**Multifamily Rental Vacancy Rate**
Source: Costar. Note: Percentage point changes.
- Year Change: -0.2%
- Year Change: -0.3%

*Note: Year changes are calculated from the current quarter to the same quarter the year before.

Utica Upstream and Midstream Activities
Created October 1, 2016

Source: ODNR, Center for Economic Development
Note: Jobs are calculated with quarterly coefficients.
Housing Affordability

Renters Cost Burdened >30%

<table>
<thead>
<tr>
<th>Year</th>
<th>&lt;60% HAMFI</th>
<th>&gt;60% HAMFI</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>71.9%</td>
<td>4.6%</td>
</tr>
<tr>
<td>2014</td>
<td>66.7%</td>
<td>10.1%</td>
</tr>
</tbody>
</table>

Owners Cost Burdened >30%

<table>
<thead>
<tr>
<th>Year</th>
<th>&lt;60% HAMFI</th>
<th>&gt;60% HAMFI</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>53.6%</td>
<td>7.6%</td>
</tr>
<tr>
<td>2014</td>
<td>57.6%</td>
<td>8.9%</td>
</tr>
</tbody>
</table>

Source: IPUMS-USA, University of Minnesota, www.ipums.org

Housing Availability

Multifamily Vacancy Rate

<table>
<thead>
<tr>
<th>Year</th>
<th>Affordable</th>
<th>Market</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>4.8%</td>
<td>9.3%</td>
</tr>
<tr>
<td>2016</td>
<td>4.5%</td>
<td>8.1%</td>
</tr>
</tbody>
</table>

Source: Costar

Owner Vacancy Rate

<table>
<thead>
<tr>
<th>Year</th>
<th>Under $100,000</th>
<th>Over $100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>1.2%</td>
<td>1.5%</td>
</tr>
<tr>
<td>2014</td>
<td>1.8%</td>
<td>0.6%</td>
</tr>
</tbody>
</table>

Source: ACS Public Use Microdata Sample, 2012 and 2014

Market Trends. Overall, housing markets appear to be strengthening as West Texas Intermediate (WTI) oil prices continue to rise and shale related activities increase.

Vacancy. Median days on the market are declining, indicating that homes are selling faster than the previous quarter. Rental vacancy rates also went down, indicating a slight tightening of the rental market.

Cost Burden.* More than half of low-income renters and owners were cost burdened in 2014. The percentage of cost burdened renters declined since 2012, while the percentage of cost burdened homeowners increased.

*Note: Cost burden data could not be updated due to data limitations.

Sales Price. Home sales activity increased by 38% from Q1 to Q2 and median sales price increased by 19%, another indicator of a stronger for-sale housing market. Overall, median rents also increased, but at a lower rate of 1%. Rents for market units increased by 2%.

Multifamily Rent per Square Foot, Q1 2012 - Q2 2016

Shale Activity Begins in Ohio

Source: Costar

= Affordable Units (n = 3,024)  = Market Units (n= 1,733)