Forestry Impacts Miami County’s Economy

Eric McConnell, Ph.D., Assistant Professor and Forest Operations and Products Extension Specialist, School of Environment and Natural Resources, The Ohio State University.

Miami County’s Forests

- **Miami County’s land base.**
  - Forest Land: 11%
  - Nonforest Land: 89%

- **Miami County’s forest land ownership.**
  - Privately Owned: 100%

- **Miami County’s timberland growing stock distribution.**
  - Ash: 25%
  - Hickory: 17%
  - Red Oaks: 12%
  - Soft Maple: 9%
  - Black Walnut: 8%
  - All Other Species: 29%

Informational Resources

- **School of Environment and Natural Resources**
  - The Ohio State University
  - 2021 Coffey Rd.
  - Columbus, OH 43210
  - Phone: (614) 688-3421
  - Web: [ohiowood.osu.edu](http://ohiowood.osu.edu)
  - [woodlandstewards.osu.edu](http://woodlandstewards.osu.edu)

- **Ohio State University Extension, Miami County**
  - 201 West Main St.
  - Troy, OH 45373-3263
  - Phone: (937) 440-3945
  - Fax: (937) 440-3551
  - Web: [Miami.osu.edu](http://Miami.osu.edu)

- **Ohio Division of Forestry**
  - 777 Columbus Ave. 5-A
  - Lebanon, OH 45036-1607
  - Phone: (513) 932-6836
  - Fax: (513) 932-6144
  - Web: [www.forestry.ohiodnr.gov/serviceforesters](http://www.forestry.ohiodnr.gov/serviceforesters)

- **Miami County Soil and Water Conservation District**
  - 1330 North CR 25A
  - Troy, OH 45373
  - Phone: (937) 335-7645
  - Fax: (937) 335-7465
  - Web: [www.Miamiswcd.org](http://www.Miamiswcd.org)

- **Ohio Society of American Foresters Directory**
  - [www.osafdirectory.com](http://www.osafdirectory.com)

- **Ohio Forestry Association**
  - Master Logging Company Program
  - Office: 746 Morrison Rd., Columbus, OH 43230
  - Mail: 1100-H Brandywine Blvd., Zanesville, OH 43701
  - Phone: (614) 497-9580
  - Fax: (614) 497-9581
  - Web: [www.ohioforest.org](http://www.ohioforest.org)

- **Call Before You Cut**
  - Phone: (877) 424-8288
  - Web: [www.callb4ucut.com](http://www.callb4ucut.com)
Miami County’s Forest Industries

<table>
<thead>
<tr>
<th></th>
<th>Jobs</th>
<th>Output</th>
<th>Labor Income</th>
<th>Value Added</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Direct Impacts of Miami County’s Forest Industries</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Forestry and Logging</td>
<td>(----)</td>
<td>(----)</td>
<td>(----)</td>
<td>(----)</td>
</tr>
<tr>
<td>Wood Products Manufacturing</td>
<td>135</td>
<td>$20,416,000</td>
<td>$6,461,000</td>
<td>$7,692,000</td>
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<tr>
<td>Paper Manufacturing</td>
<td>486</td>
<td>$183,972,000</td>
<td>$30,894,000</td>
<td>$43,433,000</td>
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<tr>
<td>Wood Furniture Manufacturing</td>
<td>75</td>
<td>$11,225,000</td>
<td>$4,418,000</td>
<td>$4,800,000</td>
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<tr>
<td>All Forest Industries</td>
<td>696</td>
<td>$215,686,000</td>
<td>$41,807,000</td>
<td>$55,961,000</td>
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</tbody>
</table>

**Type SAM Economic Multipliers**

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<tr>
<td>Wood Products Manufacturing</td>
<td>1.35</td>
<td>1.26</td>
<td>1.28</td>
<td>1.41</td>
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<tr>
<td>Paper Manufacturing</td>
<td>1.68</td>
<td>1.22</td>
<td>1.44</td>
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<tr>
<td>Wood Furniture Manufacturing</td>
<td>1.41</td>
<td>1.30</td>
<td>1.26</td>
<td>1.43</td>
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<tr>
<td>All Forest Industries</td>
<td>1.60</td>
<td>1.23</td>
<td>1.40</td>
<td>1.52</td>
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**Total Impacts of Miami County’s Forest Industries**

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<td>(----)</td>
<td>(----)</td>
</tr>
<tr>
<td>Wood Products Manufacturing</td>
<td>181</td>
<td>$25,693,000</td>
<td>$8,275,000</td>
<td>$10,874,000</td>
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<td>Paper Manufacturing</td>
<td>816</td>
<td>$225,081,000</td>
<td>$44,437,000</td>
<td>$66,725,000</td>
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<td>Wood Furniture Manufacturing</td>
<td>106</td>
<td>$14,574,000</td>
<td>$5,563,000</td>
<td>$6,857,000</td>
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<tr>
<td>All Forest Industries</td>
<td>1,115</td>
<td>$265,715,000</td>
<td>$58,508,000</td>
<td>$84,812,000</td>
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**Location Quotients**

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<td>(----)</td>
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<td>(----)</td>
</tr>
<tr>
<td>Wood Products Manufacturing</td>
<td>1.31</td>
<td>1.05</td>
<td>1.58</td>
<td>1.61</td>
</tr>
<tr>
<td>Paper Manufacturing</td>
<td>4.78</td>
<td>3.43</td>
<td>4.24</td>
<td>3.56</td>
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<tr>
<td>Wood Furniture Manufacturing</td>
<td>1.00</td>
<td>0.88</td>
<td>1.45</td>
<td>1.09</td>
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<tr>
<td>All Forest Industries</td>
<td>2.26</td>
<td>2.41</td>
<td>2.64</td>
<td>2.46</td>
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</table>

(----) is withheld data to prevent potential disclosure of individual company information. Note: total impacts should not be added across industries. This incorrectly estimates the contributions of all forest industries due to any interactions occurring between individual sectors.

**Terminology**

Direct Impacts- the effects generated by a county’s forest industries to meet the final demand for wood and fiber products.

*Type SAM (Social Accounting Matrix) Economic Multipliers*- figures quantifying the forest industries’ influences on other economic sectors. They are defined by dividing the sum of the direct, indirect, and induced impacts by the direct impact.

Total Impacts- the summed effects of the forest industries’ direct, indirect, and induced impacts on the county’s economy.

Location Quotients (LQs)- ratios comparing the forest industries’ relative contributions at the county level to their national share of the U.S. economy, which provides measures of specialization. Here, the forest industries’ LQs are defined as ≤ 1.00- not specialized; 1.01 - 5.00- specialized; 5.01 - 15.00- highly specialized; ≥ 15.01- very highly specialized.

**Sources**

*U.S. Census Bureau; U.S. Forest Service Forest Inventory and Analysis; and Input-Output Models of the U.S. and Miami County, Ohio, IMPLAN LLC. All data are for the year 2012 and are reported in 2012 dollars.*

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Bruce McPherson, Ph.D., Vice President for Agricultural Administration & Dean

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