Forestry Impacts Mahoning 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.

Mahoning County’s Forests

- **Forest Land** 23%
- **Nonforest Land** 77%

Publicly Owned 20%

Privately Owned 80%

- **Soft Maple** 41%
- **Red Oaks** 25%
- **White Oaks** 13%
- **Ash** 8%
- **Hickory** 3%
- **All Other Species** 10%

Mahoning County’s timberland growing stock distribution.

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, Mahoning County**
490 South Broad St.
Canfield, OH 44406-1604
Phone: (330) 533-5538
Fax: (330) 533-2424
Web: [mahoning.osu.edu](http://mahoning.osu.edu)

**Ohio Division of Forestry**
3601 New Garden Rd.
Salem, OH 44460-9571
Phone: (330) 222-1486
Fax: (330) 222-1486
Web: [www.forestry.ohiodnr.gov/serviceforesters](http://www.forestry.ohiodnr.gov/serviceforesters)

**Mahoning County Soil and Water Conservation District**
850 Industrial Rd.
Youngstown, OH 44509-2955
Phone: (330) 740-7995
Fax: (330) 259-1075
Web: [www.mahoningswcd.org](http://www.mahoningswcd.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)
Mahoning County’s Forest Industries

<table>
<thead>
<tr>
<th></th>
<th>Jobs</th>
<th>Output</th>
<th>Labor Income</th>
<th>Value Added</th>
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<tbody>
<tr>
<td><strong>Direct Impacts of Mahoning County’s Forest Industries</strong></td>
<td></td>
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<tr>
<td>Forestry and Logging</td>
<td>----</td>
<td>$1,409,000</td>
<td>(-----)</td>
<td>(-----) $641,000</td>
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<tr>
<td>Wood Products Manufacturing</td>
<td>431</td>
<td>$78,371,000</td>
<td>$23,135,000</td>
<td>$27,040,000</td>
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<tr>
<td>Paper Manufacturing</td>
<td>178</td>
<td>$65,837,000</td>
<td>$8,889,000</td>
<td>$14,075,000</td>
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<tr>
<td>Wood Furniture Manufacturing</td>
<td>161</td>
<td>$36,828,000</td>
<td>$7,069,000</td>
<td>$12,373,000</td>
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<tr>
<td>All Forest Industries</td>
<td>773</td>
<td>$182,445,000</td>
<td>$39,190,000</td>
<td>$54,129,000</td>
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</table>

**Type SAM Economic Multipliers**

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<tr>
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</thead>
<tbody>
<tr>
<td>Forestry and Logging</td>
<td>----</td>
<td>1.23</td>
<td>(-----)</td>
<td>1.30</td>
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<tr>
<td>Wood Products Manufacturing</td>
<td>1.75</td>
<td>1.50</td>
<td>1.58</td>
<td>1.87</td>
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<td>Paper Manufacturing</td>
<td>2.17</td>
<td>1.42</td>
<td>2.05</td>
<td>2.16</td>
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<td>Wood Furniture Manufacturing</td>
<td>1.91</td>
<td>1.47</td>
<td>1.85</td>
<td>1.84</td>
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<tr>
<td>All Forest Industries</td>
<td>1.86</td>
<td>1.45</td>
<td>1.71</td>
<td>1.90</td>
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</table>

**Total Impacts of Mahoning County’s Forest Industries**

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<tbody>
<tr>
<td>Forestry and Logging</td>
<td>8</td>
<td>$1,711,000</td>
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<td>$817,000</td>
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<tr>
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<td>757</td>
<td>$117,664,000</td>
<td>$36,612,000</td>
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<td>Paper Manufacturing</td>
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<td>$93,617,000</td>
<td>$18,219,000</td>
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<tr>
<td>Wood Furniture Manufacturing</td>
<td>307</td>
<td>$54,179,000</td>
<td>$13,045,000</td>
<td>$22,813,271</td>
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<tr>
<td>All Forest Industries</td>
<td>1,436</td>
<td>$264,527,000</td>
<td>$67,042,000</td>
<td>$103,074,000</td>
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**Location Quotients**

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Forestry and Logging</td>
<td>(-----)</td>
<td>0.18</td>
<td>(-----)</td>
<td>0.18</td>
</tr>
<tr>
<td>Wood Products Manufacturing</td>
<td>1.54</td>
<td>1.84</td>
<td>2.30</td>
<td>2.18</td>
</tr>
<tr>
<td>Paper Manufacturing</td>
<td>0.65</td>
<td>0.56</td>
<td>0.50</td>
<td>0.45</td>
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<tr>
<td>Wood Furniture Manufacturing</td>
<td>0.79</td>
<td>1.32</td>
<td>0.94</td>
<td>1.08</td>
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<tr>
<td>All Forest Industries</td>
<td>0.93</td>
<td>0.93</td>
<td>1.00</td>
<td>0.92</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 overestimates 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 Mahoning 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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