

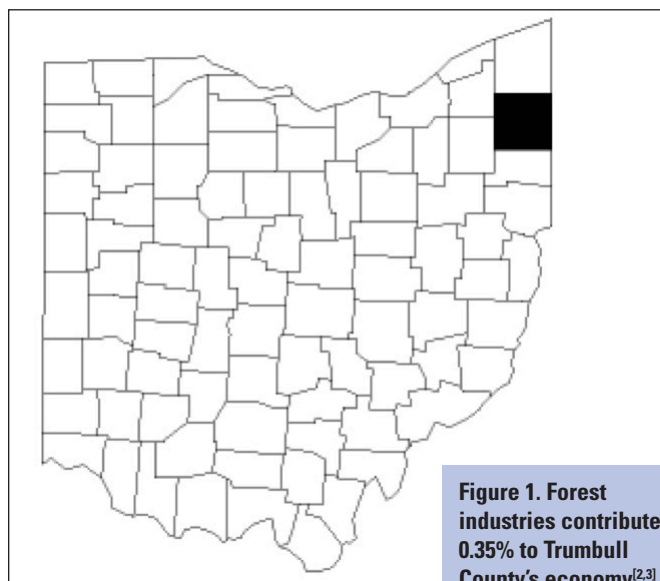
# Trumbull County's Forest Economy

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Trumbull County contains 618 square miles (395,700 acres) of land and is home to 207,400 citizens<sup>[1]</sup>. There are 234 industries in the county<sup>[2]</sup>, with the median household earning an income of \$42,400<sup>[1]</sup>. Major employers include businesses in the sectors of food services, state and local governments, health care, automobile manufacturing, and real estate<sup>[2]</sup>.

The land resources of Trumbull County provide many economic benefits. The county's 960 agricultural farms produce agronomic and horticultural crops, dairy products, and cattle and calves, among others<sup>[3]</sup>. An abundance of wooded acres are also present, providing community support to the county's forest industries.

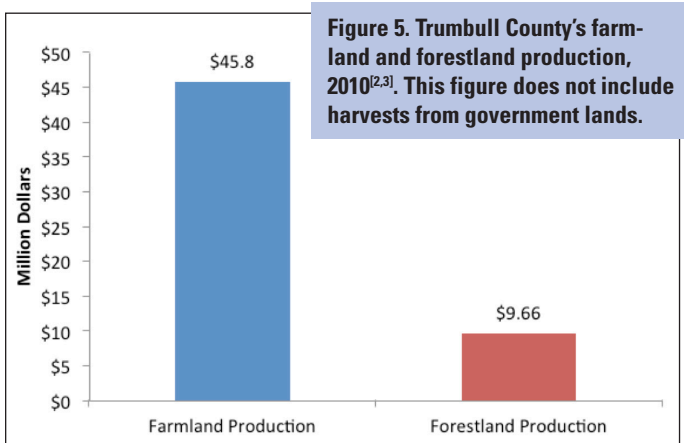
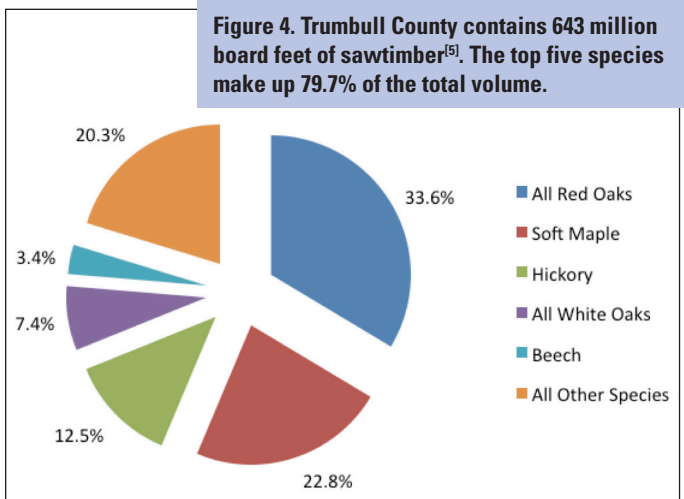
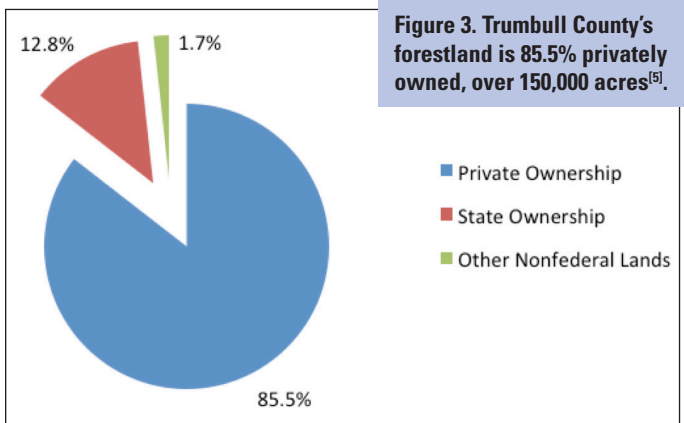
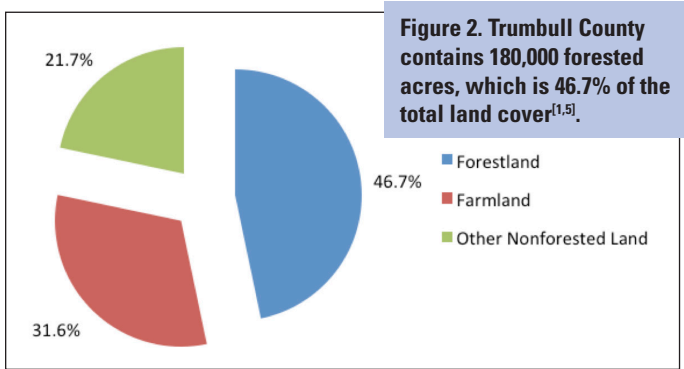
These businesses generate \$55.0 million in industrial output and \$3.75 million in taxes<sup>[2]</sup>.

Some of the many contributions Trumbull County's forests and forest industries provide to the local economy are illustrated in this fact sheet using key figures and statistics. Figures 2–4, describing Trumbull County's forest resources, were constructed using data from the 2011 forest survey database provided by the United States Forest Service's Forest Inventory and Analysis. Figures 5–8 explain the county's forest industries and were developed from data analyzed using IMPLAN<sup>®</sup>. Table 1 summarizes the IMPLAN<sup>®</sup> model for Trumbull County's economy<sup>a</sup>.

## Benefits of Woodland Management

- Properly managing your woodland improves forest health, aesthetics, and wildlife habitat. It also provides soil stabilization, clean water, self-satisfaction, and a potential source of income.
- Managing timber requires less long-term inputs compared to many other land uses.
- You are often able to obtain cost share funds to establish your woodland, property tax credits while managing your forest property, and preferable tax treatment at harvest.
- Standing timber is a stable form of wealth, often comparable in performance to mutual fund investments.

<sup>a</sup>For more information regarding IMPLAN<sup>®</sup> and the economic impact analyses for Trumbull County, please contact the first author in the School of Environment and Natural Resources.



## How Can I Learn to Better Manage My Woodland?

- Become actively involved in the stewardship of your property.
- Join your local forestry association.
- Search Ohio State University Extension's website Ohioline (<http://ohioline.osu.edu/for-fact/index.html>) for further study of forestry related topics.
- Contact your local service forester at the Ohio Division of Forestry to help you develop a management plan for your property.
- Obtain soils information for trees suited to your soil types at your local Soil and Water Conservation District.
- Enlist the assistance of a professional forester when planning a timber sale.
- Consider hiring an Ohio Master Logging Company to conduct your harvesting operation.

## For More Information, Please Consult the Following Sources

### School of Environment and Natural Resources

The Ohio State University  
 2021 Coffey Rd.  
 Columbus, OH 43210  
 Phone: (614) 688-3421  
 Web: [www.ohiowood.osu.edu](http://www.ohiowood.osu.edu)  
<http://woodlandstewards.osu.edu/>

### Ohio State University Extension, Trumbull County

520 West Main St., Suite 1  
 Cortland, OH 44410  
 Phone: (330) 638-6783  
 Fax: (330) 637-2172  
 Web: <http://trumbull.osu.edu/>

### Ohio Division of Forestry

15444 West High St.  
 Middlefield, OH  
 Phone: (440) 632-5299  
 Fax: (440) 632-1410  
 Web: <http://www.ohiodnr.com/Home/landowner/LandownerAssistance/tabid/5279/Default.aspx>

### Trumbull County Soil and Water Conservation District

520 West Main St., Suite 3  
 Cortland, OH 44410  
 Phone: (330) 637-2056  
 Fax: (330) 637-2809  
 Web: <http://www.swcd.co.trumbull.oh.us/>

**Ohio Society of American Foresters**  
[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: <http://www.ohioforest.org/>

**Call Before You Cut**

Phone: (877) 424-8288  
 Web: <http://www.callb4ucut.com/>

**Terminology<sup>[5,6]</sup>**

**Acres:** A unit of land measure equal to 43,560 square feet (208.7 feet × 208.7 feet). One square mile equals 640 acres.

**Direct Economic Impact:** The effect generated by the industry of interest in an economic impact analysis. This is measured through employment, value-added, and industrial output produced to meet demand for the manufactured product(s).

**Direct Federal Tax Impact:** Taxes collected by the United States government. These taxes are generated from labor income, indirect business taxes, households, and corporations associated with the industry of interest.

**Direct State and Local Tax Impact:** Taxes paid to state, county, and municipal governments. These taxes are generated from labor income, indirect business taxes, households, and corporations associated with the industry of interest.

**Employment:** The total wage and salary and self-employed jobs in a geographical area.

**Indirect Business Taxes:** Sales and excise taxes paid by individuals to businesses through normal operations. They do not include taxes on corporate profits and dividends.

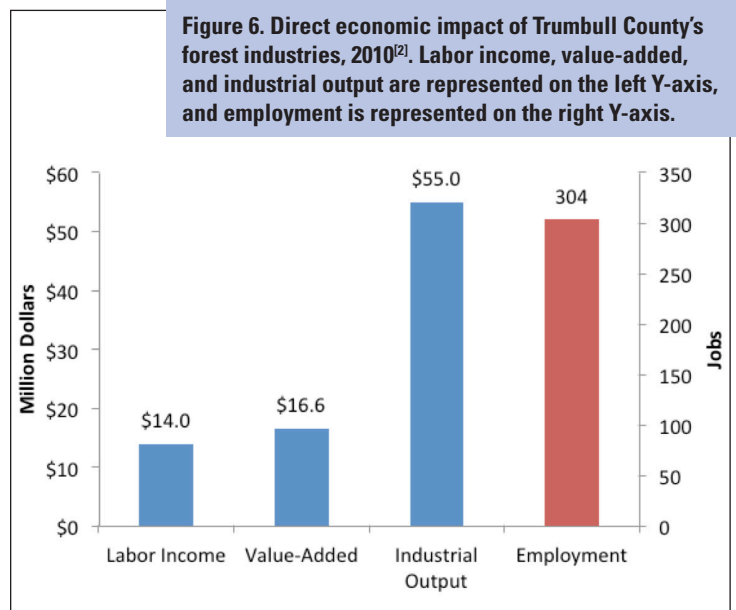
**Industrial Output:** The total value of production measured as the sum of value-added plus the cost of buying goods and services to produce the product(s).

**Labor Income:** Wages and benefits paid to employees plus proprietary income for self-employed work.

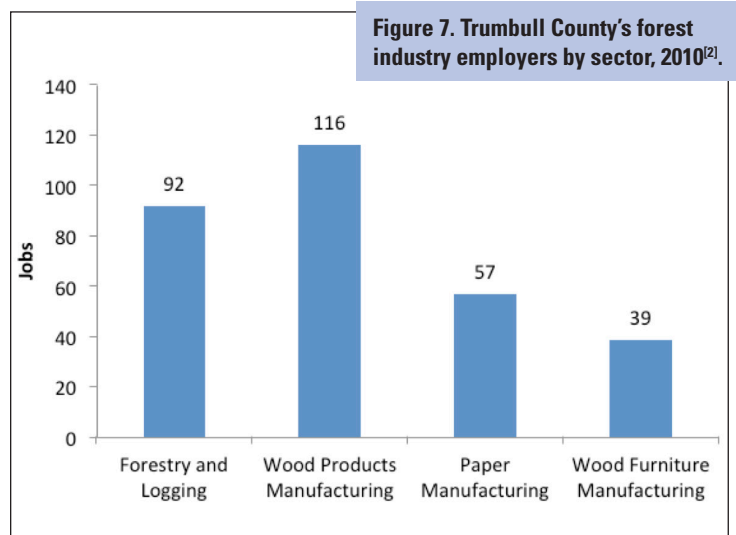
**Sawtimber Volume:** Net volume in board feet by the International 1/4-inch rule of sawlogs in sawtimber trees on timberland. Gross volume minus the deductions that affect use for lumber equals net volume.

**Value-Added:** The sum of labor income, interest, profits, and indirect business taxes.

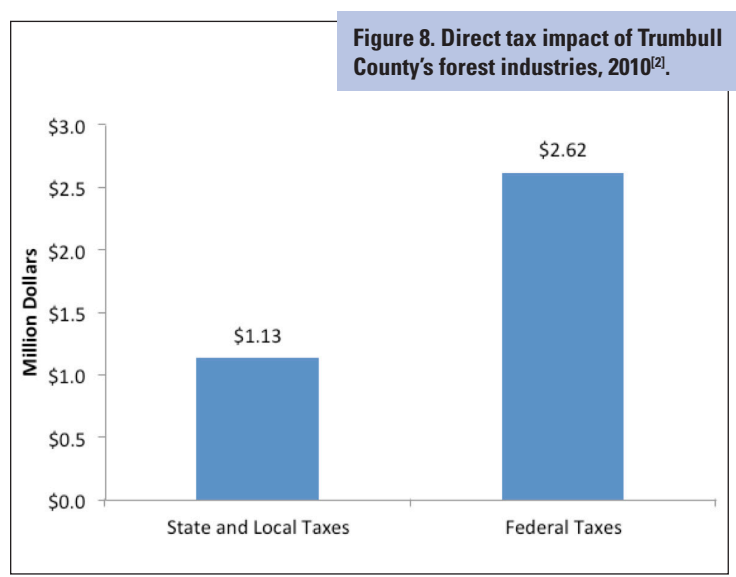
**Figure 6. Direct economic impact of Trumbull County's forest industries, 2010<sup>[2]</sup>. Labor income, value-added, and industrial output are represented on the left Y-axis, and employment is represented on the right Y-axis.**



**Figure 7. Trumbull County's forest industry employers by sector, 2010<sup>[2]</sup>.**



**Figure 8. Direct tax impact of Trumbull County's forest industries, 2010<sup>[2]</sup>.**



**Table 1.** Direct industrial contributions within Trumbull County's economy, 2010<sup>[2]</sup>. The IMPLAN® model's 440 sectors were aggregated into 12 industries by each sector's 2-digit North American Industry Classification System (NAICS) code number.

Industry NAICS Description	Employment	Labor Income	Value Added	Industrial Output
11 Agriculture, Forestry, Fishing, and Hunting	1,196	\$19,803,638	\$27,520,773	\$80,610,814
<b>113 Forestry and Logging</b>	<b>92</b>	<b>\$4,074,483</b>	<b>\$4,007,564</b>	<b>\$9,034,294</b>
21 Mining	676	\$17,244,103	\$42,371,548	\$67,864,625
22 Utilities	171	\$15,976,895	\$67,394,596	\$89,289,027
23 Construction	4,264	\$135,628,800	\$176,015,157	\$467,160,879
31–33 Manufacturing	12,961	\$1,074,877,041	\$1,839,876,092	\$8,885,648,229
<b>321 Wood Products Manufacturing</b>	<b>116</b>	<b>\$5,738,753</b>	<b>\$6,540,692</b>	<b>\$19,851,212</b>
<b>322 Paper Manufacturing</b>	<b>57</b>	<b>\$2,346,652</b>	<b>\$3,396,945</b>	<b>\$19,385,452</b>
<b>337 Wood Furniture Manufacturing</b>	<b>39</b>	<b>\$1,831,718</b>	<b>\$2,707,673</b>	<b>\$6,738,690</b>
42 Wholesale Trade	2,225	\$125,636,426	\$244,187,551	\$321,342,743
44–45 Retail Trade	11,955	\$292,567,418	\$433,101,698	\$671,804,453
48–49 Transportation and Warehousing	2,888	\$144,472,316	\$190,628,960	\$329,059,501
51–56 Professional Services	16,872	\$507,206,620	\$1,459,297,587	\$2,311,354,699
61–72 Educational, Health, and Recreational Services	21,500	\$682,949,835	\$802,468,310	\$1,469,835,770
81 Other Services	4,842	\$138,693,756	\$147,769,433	\$331,889,361
92 Government and non-NAICS Industries	10,953	\$568,145,871	\$640,767,663	\$790,989,878
<b>Forest Industries</b>	<b>304</b>	<b>\$13,991,606</b>	<b>\$16,652,874</b>	<b>\$55,009,648</b>
<b>Total</b>	<b>90,501</b>	<b>\$3,723,202,718</b>	<b>\$6,071,399,368</b>	<b>\$15,816,849,979</b>

## References

- [1] United States Census. 2013. United States Census state and county quick facts. <http://quickfacts.census.gov/qfd/states/39/39155.html>.
- [2] Minnesota IMPLAN Group. 2012. 2010 Ohio state and national package database. MIG, Inc., Hudson, WI.
- [3] United States Department of Agriculture National Agricultural Statistics Service. 2010. Ohio county summaries. [http://www.nass.usda.gov/Statistics\\_by\\_State/Ohio/Charts\\_and\\_Maps/index.asp](http://www.nass.usda.gov/Statistics_by_State/Ohio/Charts_and_Maps/index.asp).
- [4] United States Forest Service Forest Inventory and Analysis. 2013. Northeast Forest Inventory and Analysis Methodology: Common definitions used by FIA. [http://www.fs.fed.us/ne/fia/methodology/def\\_ah.htm](http://www.fs.fed.us/ne/fia/methodology/def_ah.htm).
- [5] United States Forest Service Forest Inventory and Analysis Database. 2013. Trumbull County 2011 forest survey database. <http://apps.fs.fed.us/fido/standardrpt.html>.
- [6] Minnesota IMPLAN Group. 2004. IMPLAN Professional®: Users Guide, Analysis Guide, Data Guide. 3rd edition. MIG, Inc.

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