



Economic Contribution of Hardwood Products: State of Missouri

Sales of hardwood products added \$4.6 billion in value to the Missouri economy in 2016, according to an Agribusiness Consulting study commissioned by the U.S. Hardwood Federation.

Economic Contribution Results

- In 2016, Missouri hardwood product output was valued at \$2.6 billion
- The economic “ripple effects” of these hardwood products supported:
 - \$4.6 billion in economic output,
 - \$1.9 billion in gross state product (GSP), and
 - 27,340 jobs in the state economy.

For every \$1 million in output of hardwood products, 6.0 jobs and \$0.42 million of GSP are supported within Missouri.

State of Missouri			
2016 Economic Contribution ¹ Provided by Select Hardwood Products			
Sector	Jobs (#)	Gross State Product (\$ millions)	Output (\$ millions)
Sawmills	3,566	\$247.7	\$634.5
Wood Preservation	506	\$46.4	\$138.0
Rail Ties	346	\$31.8	\$94.6
Hardwood Veneer and Plywood Manufacturing	11	\$0.9	\$2.2
Engineered wood member (except truss) manufacturing	281	\$20.0	\$51.1
Truss manufacturing	923	\$65.8	\$167.7
Wood Window and Door Manufacturing	328	\$25.6	\$60.5
Cut Stock, Re-sawing Lumber, and Planing	694	\$49.0	\$124.3
Millwork	1,612	\$125.2	\$288.7
Flooring	997	\$77.5	\$178.5
Wood Container and Pallet Manufacturing	5,014	\$356.3	\$794.0
All other Miscellaneous Wood Product Manufacturing	630	\$42.5	\$100.5
Wood Kitchen Cabinet and Countertop Manufacturing	5,701	\$361.9	\$805.6
Upholstered Household Furniture Manufacturing	1,661	\$121.2	\$313.2
Non-upholstered Wood Household Furniture Manufacturing	547	\$39.9	\$78.1
Institutional Furniture Manufacturing	752	\$55.7	\$128.8
Wood Office Furniture Manufacturing	545	\$41.6	\$97.1
Custom Architectural Woodwork and Millwork Manufacturing	679	\$45.8	\$101.3
Showcase, Partition, Shelving, and Locker Manufacturing	2,876	\$224.6	\$529.0
Blind and Shade Manufacturing	18	\$0.9	\$2.7
Total	27,340	\$1,948.8	\$4,596.0

¹ Economic contribution is the summation of direct, indirect and induced impacts as defined on page 2.
Source: U.S. Economic Census, Annual Survey of Manufacturers, IMPLAN and Agribusiness Consulting

Economic Contribution of Hardwood Products: State of Missouri (Continued)

About the Study

This study investigated the economic contribution from the output of hardwood industries, including sawmills wood preservation, veneer and plywood manufacturing, engineered wood member manufacturing, truss manufacturing, wood window and door manufacturing, cut stock, re-sawing lumber and planing, other millwork (including flooring), wood container and pallet manufacturing, miscellaneous wood product manufacturing, wood kitchen cabinet and countertop manufacturing, upholstered household furniture manufacturing, non-upholstered wood household furniture manufacturing, institutional furniture manufacturing, wood office furniture manufacturing, custom architectural woodwork and millwork manufacturing, showcase, partition, shelving, and locker manufacturing, and blind and shade manufacturing.

IMPLAN Summary Results Table

Impact Type	Jobs (#)	Labor Income (\$ millions)	GSP (\$ millions)	Output (\$ millions)
Direct Effect	14,181	\$670.0	\$838.8	\$2,639.9
Indirect Effect	6,088	\$380.7	\$566.8	\$1,008.1
Induced Effect	7,071	\$299.7	\$543.2	\$948.0
Total Effect	27,340	\$1,350.4	\$1,948.8	\$4,596.0

Economic Impacts

This study analyzed the economic contribution of the hardwood industry by aggregating three separate impacts: direct, indirect, and induced impacts. Direct impacts are the benefits producers directly received in the form of additional sales. Indirect impacts are realized by businesses supporting the hardwood industry, like industrial loggers and transportation companies. Induced impacts are those created from the spending of labor income and profits and would include, for example, sawmill employees purchasing groceries. For this study, these impacts are aggregated to provide a holistic view of how the hardwood industry supports the Missouri state economy.

Economic Variable Definitions

- Jobs are the total number of jobs supported by the economic activity.
- Labor Income is the total value of all employment income, including employee compensation and proprietor income.
- Gross State Product (GSP) is very similar to GDP and is the total value added by each step in the supply chain. The GSP can be thought of as the summation of labor income, profit, taxes and indirect business taxes.
- Output can be defined as the summation of the business revenues that are associated with the production of hardwood products.