



Economic Contribution of Hardwood Products: United States

Sales of hardwood products added \$348.1 billion in value to the United States economy in 2016, according to an Agribusiness Consulting study commissioned by the U.S. Hardwood Federation.

Economic Contribution Results

- In 2016, United States hardwood product output was valued at \$135.6 billion
- The economic “ripple effects” of these hardwood products supported:
 - \$348.1 billion in economic output,
 - \$156.9 billion in gross domestic product (GDP), and
 - 1,834,670 jobs in the national economy.

For every \$1 million in output of hardwood products, 5.3 jobs and \$0.45 million of GDP are supported within United States.

United States			
2016 Economic Contribution ¹ Provided by Select Hardwood Products			
Sector	Jobs (#)	GDP (\$ millions)	Output (\$ millions)
Sawmills	156,749	\$12,692.9	\$28,435.7
Wood Preservation	48,425	\$5,520.3	\$13,520.7
Rail Ties	17,087	\$1,947.9	\$4,771.0
Hardwood Veneer and Plywood Manufacturing	116,480	\$10,390.0	\$23,857.0
Engineered wood member (except truss) manufacturing	22,790	\$1,896.3	\$4,405.8
Truss manufacturing	74,843	\$6,227.5	\$14,468.4
Wood Window and Door Manufacturing	151,854	\$14,051.3	\$30,723.5
Cut Stock, Re-sawing Lumber, and Planing	24,975	\$2,214.1	\$4,863.1
Millwork	73,013	\$6,407.3	\$13,833.9
Flooring	46,085	\$4,044.2	\$8,731.8
Wood Container and Pallet Manufacturing	155,435	\$12,549.4	\$27,285.3
All other Miscellaneous Wood Product Manufacturing	74,532	\$6,226.8	\$13,291.4
Wood Kitchen Cabinet and Countertop Manufacturing	298,934	\$23,120.1	\$49,309.0
Upholstered Household Furniture Manufacturing	170,110	\$14,599.3	\$34,964.4
Non-upholstered Wood Household Furniture Manufacturing	74,547	\$5,711.1	\$11,805.1
Institutional Furniture Manufacturing	69,116	\$6,185.5	\$13,591.3
Wood Office Furniture Manufacturing	52,066	\$4,930.4	\$10,423.9
Custom Architectural Woodwork and Millwork Manufacturing	54,542	\$4,760.0	\$9,683.9
Showcase, Partition, Shelving, and Locker Manufacturing	135,945	\$12,453.5	\$28,127.7
Blind and Shade Manufacturing	34,229	\$2,960.3	\$6,759.8
Total	1,834,670	\$156,940.3	\$348,081.8
Exports	206,020	\$17,821.0	\$39,842.7

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: United States (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)	GDP (\$ millions)	Output (\$ millions)
Direct Effect	685,450	\$34,759.8	\$44,707.9	\$135,637.1
Indirect Effect	509,840	\$34,717.3	\$54,314.1	\$108,873.3
Induced Effect	639,380	\$32,567.6	\$57,918.3	\$103,571.4
Total Effect	1,834,670	\$102,044.8	\$156,940.3	\$348,081.8

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 United States 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 Domestic Product (GDP) is the total value added by each step in the supply chain. The GDP 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.