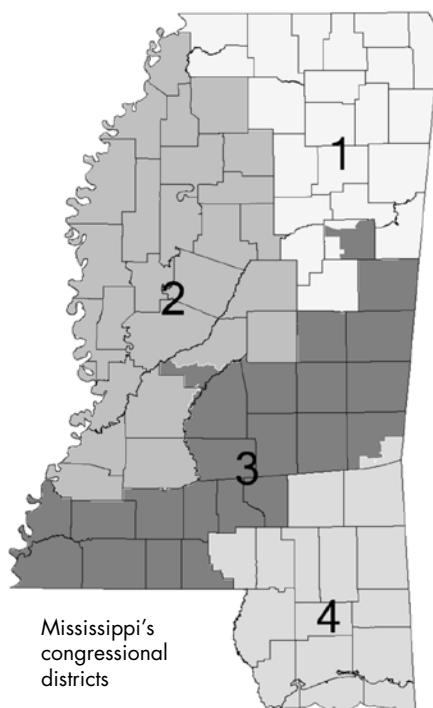


Economic Impact of Forestry and Forest Products on Mississippi's Second Congressional District

Forestry and the forest products industry have a substantial impact on the economy of Mississippi's Second Congressional District. The purchase of goods and services by this industry and its employees spurs economic activity in other sectors of the economy. It is estimated that forestry and the forest products industry have a total economic impact of \$1.4 billion in total industry output, \$442.4 million in value-added, \$284.6 million in wages and salaries, and 6,927 jobs. In addition, the tax impact was estimated to be \$87.1 million, with \$51.9 million in federal and \$35.2 million in state and local taxes.

These results were obtained using Impact Analysis for PLANning (IMPLAN), an input-output model. Using input-output analysis to track how the inputs of one sector of the economy are the outputs of other sectors can allow for a greater appreciation of the economic importance of a sector or group of sectors to the overall economy. Using 2011 data and the IMPLAN model, this study estimates the total economic contribution of forestry and the forest products industry within Mississippi's Second Congressional District.

This is measured by examining how spending by the forestry and forestry products industry impacts the entire economy using four key statistics: total industry output (total value of production), value-added (payments made to workers, interest, profits, and indirect business taxes), wages and salaries (employee compensation), and employment (the number of full- and part-time jobs). For each of the four key statistics the direct, indirect, and total economic impacts were estimated. The direct impacts are the actual expenditures



and employment of the forestry and forest products industry sectors (forestry services, logging, solid wood products, pulp and paper, and wood furniture manufacturing). The direct impacts are then used to measure the purchase of goods and services by the forest products industry's supporting industries (i.e., indirect impact) and the purchases of consumer goods and services by employee households associated with direct and indirect effects (i.e., induced impact). These impacts together give the total economic impact.

The IMPLAN model tracks inter-industry spending and summarizes the economy into a 440-industry sector model. For reporting purposes, the results of this analysis were simplified by combining the 440 sectors to 17 sectors representing the entire economy, including the five forestry- and forest products-related sectors.¹

The forestry and forest products impacts on the economy of Mississippi's Second Congressional District are summarized below and detailed in **Table 1**.

Forest-related economic activity generated 6,927 jobs and \$284.6 million in income during 2011. That's 1.9 percent of jobs and 2 percent of income in the district. Forestry and the forest products industry generated \$1.4 billion or about 3.1 percent of economic output in the district. The value of all goods and services produced is defined as total output. Value-added amounted to more than \$442.4 million, or more than 2 percent of all value-added in the district. Value-added represents the creation of new wealth.

Forest-related economic activity contributed an estimated \$87.1 million in tax revenue for federal, state, and local governments. This total includes estimated tax revenues of \$51.9 million for federal and \$35.2 million for state and local governments.

¹ For more detail on combining the 440 sectors to 17 sectors, please see The Economic Impact of Forestry and the Forest Products Industry on Mississippi's Congressional Districts, Forest and Wildlife Research Center, Research Bulletin FO 438, Mississippi State University.



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Table 1. Impacts of forest-related sectors on employment, income, output, and value-added in Mississippi's Second Congressional District.

	Number of jobs	% of district	Income (\$)	% of district	Output (\$)	% of district	Value-added (\$)	% of district
Direct impact from forest-related sectors								
Forestry services	167	0.05	3,137,331	0.02	44,097,957	0.10	13,083,345	0.06
Logging	847	0.24	18,470,312	0.13	48,509,270	0.11	14,369,651	0.07
Solid wood products	1,977	0.55	76,551,829	0.54	424,134,058	0.94	88,521,441	0.40
Pulp and paper	649	0.18	48,541,999	0.34	388,488,973	0.86	100,940,841	0.46
Wood furniture	423	0.12	25,121,026	0.18	73,603,240	0.16	35,728,922	0.16
Subtotal	4,064	1.14	171,822,496	1.21	978,833,498	2.18	252,644,200	1.15
Indirect and induced impacts on sectors								
Services	702	0.20	27,705,216	0.19	62,233,712	0.14	35,460,404	0.16
Retail and wholesale trade	507	0.14	20,933,752	0.15	49,550,977	0.11	34,020,679	0.16
Agricultural production and services	315	0.09	10,051,960	0.07	18,447,660	0.04	9,619,629	0.04
Transportation and warehousing	288	0.08	13,123,271	0.09	40,373,459	0.09	17,522,345	0.08
Food services	238	0.07	4,671,440	0.03	12,987,616	0.03	6,545,828	0.03
Construction and manufacturing	234	0.07	11,874,641	0.08	113,817,044	0.25	31,599,783	0.14
Health care	196	0.05	11,385,145	0.08	20,717,592	0.05	12,580,238	0.06
Real estate, finance, and insurance	190	0.05	5,973,355	0.04	55,683,157	0.12	31,313,335	0.14
Hotels and entertainment	88	0.02	1,972,939	0.01	6,616,215	0.01	3,305,725	0.02
Government	54	0.02	3,531,062	0.02	10,900,233	0.02	5,879,482	0.03
Education	42	0.01	1,114,747	0.01	2,145,077	0.00	1,280,763	0.01
Food and fiber products	10	0.00	428,164	0.00	4,082,542	0.01	638,618	0.00
Subtotal	2,863	0.80	112,765,692	0.79	397,555,284	0.88	189,766,829	0.87
Total impact	6,927	1.93	284,588,188	2.00	1,376,388,782	3.06	442,411,029	2.02
Rest of district	351,047	98.07	13,930,482,308	98.00	43,561,467,604	96.94	21,433,419,304	97.98
Total in district	357,974	100.00	14,215,070,496	100.00	44,937,856,386	100.00	21,875,830,333	100.00

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Information Sheet 1962

Extension Service of Mississippi State University, cooperating with U.S. Department of Agriculture. Published in furtherance of Acts of Congress, May 8 and June 30, 1914. GARY B. JACKSON, Director

(POD-09-13)

