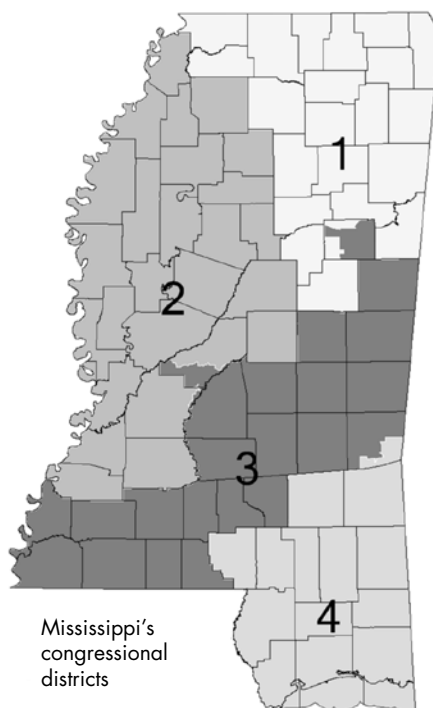


# Economic Impact of Forestry and Forest Products on Mississippi's Third Congressional District

Forestry and the forest products industry have a substantial impact on the economy of Mississippi's Third 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 \$2 billion in total industry output, \$710 million in value-added, \$489.3 million in wages and salaries, and 10,905 jobs. In addition, the tax impact was estimated to be \$138.8 million, with \$85.1 million in federal and \$53.7 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 Third 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.<sup>1</sup>

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

Forest-related economic activity generated 10,905 jobs and \$489.3 million in income during 2011. That's 2.8 percent of jobs and 3 percent of income in the district. Forestry and the forest products industry generated \$2 billion or about 4 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 \$710 million, or about 2.8 percent of all value-added in the district. Value-added represents the creation of new wealth.

Forest-related economic activity contributed an estimated \$138.8 million in tax revenue for federal, state, and local governments. This total includes estimated tax revenues of \$85.1 million for federal and \$53.7 million for state and local governments.

<sup>1</sup> 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 Third Congressional District.**

	Number of jobs	% of district	Income (\$)	% of district	Output (\$)	% of district	Value-added (\$)	% of district
<b>Direct impact from forest-related sectors</b>								
Forestry services	64	0.02	6,230,681	0.04	25,225,437	0.05	13,404,953	0.05
Logging	1,958	0.50	55,070,864	0.34	125,073,814	0.25	45,588,409	0.18
Solid wood products	2,614	0.66	128,189,538	0.79	588,900,275	1.17	150,211,090	0.60
Pulp and paper	966	0.25	82,185,457	0.51	541,411,607	1.08	141,290,126	0.56
Wood furniture	853	0.22	42,115,867	0.26	141,071,752	0.28	57,238,623	0.23
Subtotal	6,455	1.64	313,792,407	1.95	1,421,682,886	2.83	407,733,201	1.62
<b>Indirect and induced impacts on sectors</b>								
Services	1,037	0.26	41,271,086	0.26	92,313,289	0.18	52,730,313	0.21
Retail and wholesale trade	881	0.22	36,901,180	0.23	88,155,847	0.18	60,613,389	0.24
Transportation and warehousing	447	0.11	20,997,647	0.13	63,854,823	0.13	27,825,355	0.11
Real estate, finance, and insurance	431	0.11	12,614,008	0.08	109,424,917	0.22	62,764,386	0.25
Food services	397	0.10	7,279,495	0.05	21,155,062	0.04	10,408,412	0.04
Health care	371	0.09	22,380,016	0.14	40,504,539	0.08	24,591,663	0.10
Construction and manufacturing	353	0.09	18,073,542	0.11	135,955,148	0.27	42,430,732	0.17
Agricultural production and services	251	0.06	5,315,894	0.03	9,003,987	0.02	4,618,984	0.02
Hotels and entertainment	101	0.03	1,932,852	0.01	6,821,420	0.01	3,372,640	0.01
Government	88	0.02	5,818,302	0.04	18,909,625	0.04	9,360,237	0.04
Education	65	0.02	1,800,357	0.01	3,375,975	0.01	2,053,117	0.01
Food and fiber products	28	0.01	1,109,842	0.01	8,308,464	0.02	1,528,073	0.01
Subtotal	4,450	1.13	175,494,219	1.09	597,783,097	1.19	302,297,303	1.20
Total impact	10,905	2.77	489,286,626	3.03	2,019,465,983	4.02	710,030,504	2.83
Rest of district	382,986	97.23	15,642,198,164	96.97	48,166,677,648	95.98	24,405,558,237	97.17
Total in district	393,890	100.00	16,131,484,790	100.00	50,186,143,631	100.00	25,115,588,742	100.00

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