

MISSISSIPPI FURNITURE INDUSTRY

AND ITS IMPORTANCE TO THE STATE ECONOMY



MISSISSIPPI STATE UNIVERSITY™
FOREST AND WILDLIFE RESEARCH CENTER

RESEARCH BULLETIN

The Forest and Wildlife Research Center (FWRC) at Mississippi State University (MSU) was established by the Mississippi Legislature with the passage of the Renewable Natural Resources Research Act of 1994. FWRC's mission is to conduct research and technical assistance programs relevant to the efficient management and utilization of the forest, wildlife, and fisheries of the state and region, and the protection and enhancement of the natural environment associated with these resources. FWRC scientists conduct research in laboratories and forests administered by the university and cooperating agencies and industries throughout the country. Research results are made available to potential users through the university's educational program and through FWRC publications such as this, which are directed as appropriate to forest landowners and managers, forest products manufacturers and consumers, government and industry leaders, the scientific community, and the general public. Dr. George M. Hopper is director of the Forest and Wildlife Research Center.

Authors

James Henderson is an associate extension professor in the Department of Forestry, Mississippi State University. Ian Munn is a professor in the Department of Forestry, Mississippi State University, and also serves as Associate Dean in the College of Forest Resources, Mississippi State University. Both authors are forest economists.

Acknowledgement

Mississippi State University's Franklin Furniture Institute commissioned this study. The Franklin Furniture Institute is a multi-disciplinary unit in the Forest and Wildlife Research Center at Mississippi State University. The Institute's mission is to sustain and increase the competitiveness of the furniture and related industries in Mississippi and beyond. The Institute's vision is to be a nationally recognized center of knowledge and outreach to the furniture and home furnishings industry. This study is based on 2013 data, the most recent available at the time of publishing.

To Order Copies

Copies of this and other Forest and Wildlife Research Center publications are available from:

Publications Office
Forest and Wildlife Research Center
Box 9680
Mississippi State, MS 39762-9680

Please indicate author(s), title and publication number if known.

Publications are also available at the website at www.fwrc.msstate.edu

Citation

Henderson, J.E., I.A. Munn. 2016. Mississippi furniture industry and its importance to the state economy. Forest and Wildlife Research Center, Research Bulletin FO461, Mississippi State University. 24 pp.



MISSISSIPPI STATE
UNIVERSITY™

FOREST AND WILDLIFE RESEARCH CENTER

RESEARCH BULLETIN FO461



MISSISSIPPI STATE UNIVERSITY™
FOREST AND WILDLIFE RESEARCH CENTER

MISSISSIPPI FURNITURE INDUSTRY AND ITS IMPORTANCE TO THE STATE ECONOMY

By

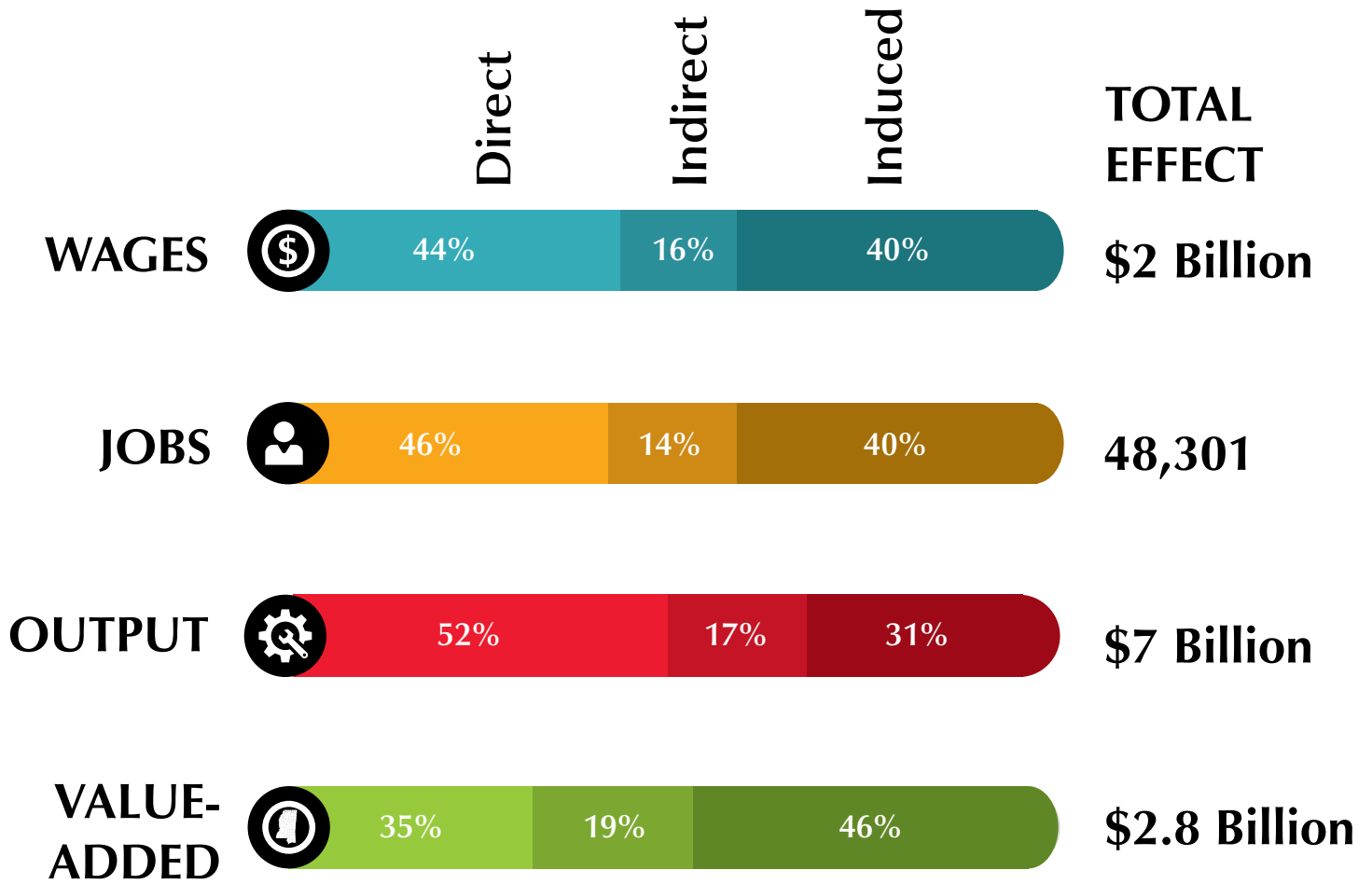
James E. Henderson

Associate Extension Professor
Department of Forestry
Forest and Wildlife Research Center
Mississippi State University

Ian A. Munn

Professor
Department of Forestry
Forest and Wildlife Research Center
Mississippi State University

FURNITURE: BY THE NUMBERS



	DIRECT	INDIRECT	INDUCED	TOTAL
WAGES	880,070,000	322,690,000	811,270,000	2,014,040,000
JOBS	22,040	6,769	19,491	48,301
OUTPUT	3,591,300,000	1,168,310,000	2,195,860,000	6,955,470,000
VALUE-ADDED	995,150,000	541,880,000	1,296,380,000	2,833,410,000

TABLE OF CONTENTS

2 Introduction

2 Results

3 Conclusions

3 References

TABLES

4 Table 1. Mississippi employment, wages, output, and value-added of the aggregated industrial sectors, 2013.

5 Table 2. Total effects (direct + indirect + induced) of the furniture industry on Mississippi employment, wages, output, and value-added by aggregated industrial sectors, 2013.

6 Table 3. Direct, indirect, and induced effects of the furniture industry on Mississippi employment by aggregated industrial sectors, 2013.

7 Table 4. Direct, indirect, and induced effects of the furniture industry on Mississippi wages (\$MM) by aggregated industrial sectors, 2013.

8 Table 5. Direct, indirect, and induced effects of the furniture industry on Mississippi output (\$MM) by aggregated industrial sectors, 2013.

9 Table 6. Direct, indirect, and induced effects of the furniture industry on Mississippi value-added (\$MM) by aggregated industrial sectors, 2013.

APPENDIX

10 TABLE A1. Aggregation scheme of IMPLAN industry sectors representing the Mississippi economy.

INTRODUCTION

The economic contributions of the Mississippi furniture industry were estimated using the Impact Analysis for Planning (IMPLAN) model originally developed by the U.S. Forest Service and now maintained by the IMPLAN Group, LLC. The IMPLAN model database is constructed from national-level 1-0 matrices and transaction tables and economic data at the state- and county-level using information from sources such as U.S. Census Bureau, Department of Commerce, and Bureau of Economic Analysis. IMPLAN models the economy using a 536 sector input-output transaction table. To simplify reporting of results, these sectors are aggregated into 21 similar industry groups based upon the 2 digit North American Industry Classification System of the United States Census Bureau. For example, the Mississippi furniture industry includes nine primary furniture sectors: upholstered household furniture manufacturing; non-upholstered wood household furniture manufacturing; other household non-upholstered furniture manufacturing; institutional furniture manufacturing; wood office furniture manufacturing; office furniture (except wood) manufacturing; showcase, partition, shelving, and locker manufacturing; mattress manufacturing; and furniture and home furnishings stores. For reporting purposes, these nine sectors were aggregated into one furniture industry group. The aggregation scheme for the 536 IMPLAN sectors is summarized in Table A1 located in the Appendix.

RESULTS

The 21 aggregated sectors representing the entire Mississippi economy are presented in Table 1. The furniture industry employed 22,040 people in 2013, directly accounting for about 1.4% of all employment in the state, with wages and salaries amounting to over \$880 million. The total value of output for the furniture industry was nearly \$3.6 billion, creating over \$995 million in value-added.

The total effect of the furniture industry on the Mississippi economy is very substantial (Table 2). When considering the combined contribution of the direct, indirect, and induced effects of the furniture industry on other industries in the state economy, the furniture industry accounts for 48,301 jobs or about 3.2% of all employment in the state, and over \$2 billion in employee compensation. Total output amounts to nearly \$7 billion with over \$2.8 billion in value-added.

The indirect effect of the furniture industry accounts for an additional 6,769 jobs as other industries supply inputs to the furniture industry. Induced effects account for an additional 19,491 jobs as other industries provide goods and services to employees of the furniture industry and its suppliers. Indirect employment effects of the furniture industry are greatest in the Wholesale Trade and Transportation and Warehousing sectors. Induced employment effects are greatest in the Government, Retail Trade, and Health Services sectors. The indirect and induced effects of employment for all aggregated industry sectors are presented in Table 3.

The furniture industry is directly responsible for wages and salaries amounting to over \$880 million; however, indirect and induced effects account for an additional \$322.7 and \$811.3 million in employee

RESULTS *(continued)*

compensation for Mississippi, respectively. This generates a total economic contribution of \$2.01 billion in employee compensation. Industries experiencing the largest benefit as measured by employee compensation include Wholesale Trade, Transportation and Warehousing and Manufacturing, while Government and Health Services benefited from induced effects (Table 4).

Indirect and induced effects of the Mississippi furniture industry amount to over \$3.36 billion in output (Table 5) and over \$1.83 billion in value-added (Table 6). Indirect output effects are greatest in Manufacturing and Information sectors. Manufacturing and Wholesale Trade benefited the most from Value-Added indirect effects. Induced effects in total output and value-added also accrued to Real Estate and Government.

CONCLUSIONS

The Mississippi furniture industry is important to the state economy both directly and in its contribution to other Mississippi industries. When the full scope of the furniture industry and its interrelationships with other sectors of the economy are considered, the furniture industry provides the Mississippi economy with **48,301 jobs**, over **\$2 billion in employee compensation**, **nearly \$7 billion in total output**, and **over \$2.8 billion in value-added**.

REFERENCES

IMPLAN Group, LLC, IMPLAN System (data and software), 16740 Birkdale Commons Parkway, Suite 206, Huntersville, NC 28078 www.IMPLAN.com

Olson, D., and S. Lindall. 1999. IMPLAN professional software, analysis, and data guide. Minnesota IMPLAN Group, Inc, 1725.

Table 1. Mississippi employment, wages, output, and value-added of the aggregated industrial sectors, 2013.

Description	Employment (Full- and part-time jobs)	Wages and Salaries (\$MM)	Total Industry Output (\$MM)	Value-Added (\$MM)
Furniture	22,040	880.07	3,591.30	995.15
Ag, Forestry, Fish & Hunting	52,645	2,288.19	7,210.72	3,001.31
Mining	13,036	1,476.05	3,479.95	2,114.46
Utilities	8,259	801.48	8,135.90	3,101.24
Construction	83,927	4,774.54	14,465.99	4,967.29
Manufacturing	120,538	7,486.62	80,468.33	24,568.45
Wholesale Trade	39,349	2,424.87	8,139.37	5,036.03
Retail Trade	152,343	4,438.65	11,611.45	7,325.85
Transportation & Warehousing	51,824	2,545.22	7,284.39	2,937.98
Information	15,766	849.27	5,549.80	2,102.00
Finance & Insurance	61,325	2,724.63	9,078.46	3,436.73
Real Estate & Rental	47,119	910.16	17,827.17	13,128.59
Professional- Scientific & Tech Services	65,090	3,366.82	7,305.63	3,852.37
Management of Companies	11,756	1,007.19	2,280.10	1,224.93
Administrative & Waste Services	93,842	2,473.43	5,131.54	3,082.08
Educational Services	24,171	691.25	1,246.68	753.75
Health & Social Services	152,450	7,232.48	12,629.73	7,472.35
Arts- Entertainment & Recreation	23,747	458.64	1,916.87	1,094.01
Accommodation & Food Services	123,281	2,726.76	7,089.84	3,889.22
Other Services	97,905	2,958.45	5,347.81	3,247.99
Government & Non NAICs	261,237	13,760.47	18,780.48	17,175.25
Total	1,521,647	66,275.24	238,571.50	114,507.03

Table 2. Total effects (direct + indirect + induced) of the furniture industry on Mississippi employment, wages, output, and value-added by aggregated industrial sectors, 2013.

Description	Employment (Full- and part-time jobs)	Wages and Salaries (\$MM)	Total Industry Output (\$MM)	Value-Added (\$MM)
Furniture	22,040	880.07	3,591.30	995.15
Ag, Forestry, Fish & Hunting	214	9.28	20.84	11.01
Mining	45	5.05	11.91	6.77
Utilities	118	11.56	115.91	44.28
Construction	986	57.85	178.17	60.19
Manufacturing	929	49.19	373.37	97.72
Wholesale Trade	1,215	77.76	254.80	161.49
Retail Trade	2,615	78.25	201.09	129.34
Transportation & Warehousing	1,330	65.71	172.65	73.28
Information	602	34.68	219.26	84.92
Finance & Insurance	1,398	64.63	206.69	78.26
Real Estate & Rental	1,067	20.00	407.34	297.18
Professional- Scientific & Tech Services	1,392	70.54	160.42	87.46
Management of Companies	366	32.53	75.00	39.56
Administrative & Waste Services	1,808	45.61	92.20	56.54
Educational Services	409	12.34	22.88	13.61
Health & Social Services	2,995	147.05	261.79	152.39
Arts- Entertainment & Recreation	414	7.03	28.41	14.99
Accommodation & Food Services	2,257	50.14	131.50	70.01
Other Services	1,718	54.75	102.13	61.70
Government & Non NAICs	4,383	240.01	327.79	297.56
Total	48,301	2,014.04	6,955.47	2,833.41

Table 3. Direct, indirect, and induced effects of the furniture industry on Mississippi employment by aggregated industrial sectors, 2013.

Description	Direct	Indirect	Induced	Total
Furniture	22,040	0	0	22,040
Ag, Forestry, Fish & Hunting	0	107	107	214
Mining	0	6	38	45
Utilities	0	46	72	118
Construction	0	110	876	986
Manufacturing	0	747	182	929
Wholesale Trade	0	911	304	1,215
Retail Trade	0	347	2,268	2,615
Transportation & Warehousing	0	963	367	1,330
Information	0	383	220	602
Finance & Insurance	0	497	902	1,398
Real Estate & Rental	0	336	731	1,067
Professional- Scientific & Tech Services	0	580	812	1,392
Management of Companies	0	294	72	366
Administrative & Waste Services	0	775	1,032	1,808
Educational Services	0	11	397	409
Health & Social Services	0	0	2,995	2,995
Arts- Entertainment & Recreation	0	60	354	414
Accommodation & Food Services	0	261	1,996	2,257
Other Services	0	228	1,490	1,718
Government & Non NAICs	0	106	4,278	4,383
Total	22,040	6,769	19,491	48,301

Table 4. Direct, indirect, and induced effects of the furniture industry on Mississippi wages (\$MM) by aggregated industrial sectors, 2013.

Description	Direct	Indirect	Induced	Total
Furniture	880.07	0.00	0.00	880.07
Ag, Forestry, Fish & Hunting	0.00	5.40	3.88	9.28
Mining	0.00	0.80	4.25	5.05
Utilities	0.00	4.82	6.74	11.56
Construction	0.00	6.49	51.36	57.85
Manufacturing	0.00	38.94	10.25	49.19
Wholesale Trade	0.00	58.33	19.43	77.76
Retail Trade	0.00	9.46	68.79	78.25
Transportation & Warehousing	0.00	48.23	17.48	65.71
Information	0.00	22.16	12.52	34.68
Finance & Insurance	0.00	23.25	41.37	64.63
Real Estate & Rental	0.00	6.45	13.55	20.00
Professional- Scientific & Tech Services	0.00	27.88	42.66	70.54
Management of Companies	0.00	26.13	6.40	32.53
Administrative & Waste Services	0.00	19.19	26.43	45.61
Educational Services	0.00	0.42	11.93	12.34
Health & Social Services	0.00	0.00	147.05	147.05
Arts- Entertainment & Recreation	0.00	0.80	6.23	7.03
Accommodation & Food Services	0.00	5.98	44.16	50.14
Other Services	0.00	10.45	44.30	54.75
Government & Non NAICs	0.00	7.53	232.49	240.01
Total	880.07	322.69	811.27	2,014.04

Table 5. Direct, indirect, and induced effects of the furniture industry on Mississippi output (\$MM) by aggregated industrial sectors, 2013.

Description	Direct	Indirect	Induced	Total
Furniture	3,591.30	0.00	0.00	3,591.30
Ag, Forestry, Fish & Hunting	0.00	10.16	10.68	20.84
Mining	0.00	1.84	10.07	11.91
Utilities	0.00	49.42	66.48	115.91
Construction	0.00	19.25	158.92	178.17
Manufacturing	0.00	259.56	113.81	373.37
Wholesale Trade	0.00	191.13	63.67	254.80
Retail Trade	0.00	26.49	174.60	201.09
Transportation & Warehousing	0.00	125.10	47.55	172.65
Information	0.00	138.08	81.18	219.26
Finance & Insurance	0.00	66.12	140.56	206.69
Real Estate & Rental	0.00	59.69	347.65	407.34
Professional- Scientific & Tech Services	0.00	67.15	93.28	160.42
Management of Companies	0.00	60.25	14.76	75.00
Administrative & Waste Services	0.00	38.69	53.50	92.20
Educational Services	0.00	0.74	22.14	22.88
Health & Social Services	0.00	0.00	261.79	261.79
Arts- Entertainment & Recreation	0.00	3.01	25.40	28.41
Accommodation & Food Services	0.00	15.53	115.97	131.50
Other Services	0.00	19.60	82.54	102.13
Government & Non NAICs	0.00	16.49	311.30	327.79
Total	3,591.30	1,168.31	2,195.86	6,955.47

Table 6. Direct, indirect, and induced effects of the furniture industry on Mississippi value-added (\$MM) by aggregated industrial sectors, 2013.

Description	Direct	Indirect	Induced	Total
Furniture	995.15	0.00	0.00	995.15
Ag, Forestry, Fish & Hunting	0.00	5.93	5.09	11.01
Mining	0.00	1.04	5.73	6.77
Utilities	0.00	18.54	25.74	44.28
Construction	0.00	6.79	53.40	60.19
Manufacturing	0.00	71.11	26.61	97.72
Wholesale Trade	0.00	121.13	40.35	161.49
Retail Trade	0.00	16.63	112.71	129.34
Transportation & Warehousing	0.00	53.44	19.84	73.28
Information	0.00	53.35	31.57	84.92
Finance & Insurance	0.00	25.29	52.97	78.26
Real Estate & Rental	0.00	44.52	252.66	297.18
Professional- Scientific & Tech Services	0.00	38.36	49.10	87.46
Management of Companies	0.00	31.78	7.78	39.56
Administrative & Waste Services	0.00	23.63	32.91	56.54
Educational Services	0.00	0.45	13.16	13.61
Health & Social Services	0.00	0.00	152.39	152.39
Arts- Entertainment & Recreation	0.00	1.35	13.64	14.99
Accommodation & Food Services	0.00	8.52	61.50	70.01
Other Services	0.00	12.13	49.57	61.70
Government & Non NAICs	0.00	7.88	289.68	297.56
Total	995.15	541.88	1,296.38	2,833.41

APPENDIX

Table A1. Aggregation scheme of IMPLAN industry sectors representing the Mississippi economy.

Furniture	Upholstered household furniture manufacturing; non-upholstered wood household furniture manufacturing; other household non-upholstered furniture manufacturing; institutional furniture manufacturing; wood office furniture manufacturing; office furniture, except wood, manufacturing; showcase, partition, shelving, and locker manufacturing; mattress manufacturing; retail - furniture and home furnishings stores
Ag, Forestry, Fish & Hunting	Oilseed farming; grain farming, vegetable and melon farming; fruit farming; tree nut farming; greenhouse, nursery, and floriculture production; tobacco farming; cotton farming; sugarcane and sugar beet farming; all other crop farming; beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming; dairy cattle and milk production; poultry and egg production; animal production, except cattle and poultry and eggs; forestry, forest products, and timber tract production; commercial logging; commercial fishing; commercial hunting and trapping; support activities for agriculture and forestry
Mining	Extraction of natural gas and crude petroleum; extraction of natural gas liquids; coal mining; iron ore mining; gold ore mining; silver ore mining; lead and zinc ore mining; copper ore mining; uranium-radium-vanadium ore mining; other metal ore mining; stone mining and quarrying; sand and gravel mining; other clay, ceramic, refractory minerals mining; potash, soda, and borate mineral mining; phosphate rock mining; other chemical and fertilizer mineral mining; other nonmetallic minerals; drilling oil and gas wells; support activities for oil and gas operations; metal mining services; other nonmetallic minerals services
Utilities	Electric power generation - hydroelectric; electric power generation - fossil fuel; electric power generation - nuclear; electric power generation - solar; electric power generation - wind; electric power generation - geothermal; electric power generation - biomass; electric power generation - all other; electric power transmission and distribution; natural gas distribution; water, sewage, and other systems
Construction	Construction of new health care structures; construction of new manufacturing structures; construction of new power and communication structures; construction of new educational and vocational structures; construction of new highways and streets; construction of new commercial structures, including farm structures; construction of other new nonresidential structures; construction of new single-family residential structures; construction of new multifamily residential structures; construction of other new residential structures; maintenance and repair construction of nonresidential structures; maintenance and repair construction of residential structures; maintenance and repair construction of highways, streets, bridges, and tunnels

Table A1. Aggregation scheme of IMPLAN industry sectors representing the Mississippi economy (*continued*).

<p>Manufacturing</p>	<p>Dog and cat food manufacturing; other animal food manufacturing; flour milling; rice milling; malt manufacturing; wet corn milling; soybean and other oilseed processing; fats and oils refining and blending; breakfast cereal manufacturing; beet sugar manufacturing; sugarcane mills and refining; non-chocolate confectionery manufacturing; chocolate and confectionery manufacturing from cacao beans; confectionery manufacturing from purchased chocolate; frozen fruits, juices and vegetables manufacturing; frozen specialties manufacturing; canned fruits and vegetables manufacturing; canned specialties; dehydrated food products manufacturing; fluid milk manufacturing; creamery butter manufacturing; cheese manufacturing; dry, condensed, and evaporated dairy product manufacturing; ice cream and frozen dessert manufacturing; animal, except poultry, slaughtering, meat processed from carcasses, rendering and meat by-product processing; poultry processing; seafood product preparation and packaging; bread and bakery product, except frozen, manufacturing; frozen cakes and other pastries manufacturing; cookie and cracker manufacturing; dry pasta, mixes, and dough manufacturing; tortilla manufacturing; roasted nuts and peanut butter manufacturing; other snack food manufacturing; coffee and tea manufacturing; flavoring syrup and concentrate manufacturing; mayonnaise, dressing, and sauce manufacturing; spice and extract manufacturing; all other food manufacturing; bottled and canned soft drinks & water; manufactured ice; breweries; wineries; distilleries; tobacco product manufacturing; fiber, yarn, and thread mills; broadwoven fabric mills; narrow fabric mills and schiffli machine embroidery; nonwoven fabric mills; knit fabric mills; textile and fabric finishing mills; fabric coating mills; carpet and rug mills; curtain and linen mills; textile bag and canvas mills; rope, cordage, twine, tire cord and tire fabric mills; other textile product mills; hosiery and sock mills; other apparel knitting mills; cut and sew apparel contractors; men's and boys' cut and sew apparel manufacturing; women's and girls' cut and sew apparel manufacturing; other cut and sew apparel manufacturing; apparel accessories and other apparel manufacturing; leather and hide tanning and finishing; footwear manufacturing; other leather and allied product manufacturing; sawmills; wood preservation; veneer and plywood manufacturing; engineered wood member and truss manufacturing; reconstituted wood product manufacturing; wood windows and door manufacturing; cut stock; resawing lumber and planing; other millwork, including flooring; wood container and pallet manufacturing; manufactured home (mobile home) manufacturing; prefabricated wood building manufacturing; all other miscellaneous wood product manufacturing; pulp mills; paper mills; paperboard mills; paperboard container manufacturing; paper bag and coated and treated paper manufacturing; stationery product manufacturing; sanitary paper product manufacturing; all other converted paper product manufacturing; printing; support activities for printing; petroleum refineries; asphalt paving mixture and block manufacturing; asphalt shingle and coating materials</p>
----------------------	--

Table A1. Aggregation scheme of IMPLAN industry sectors representing the Mississippi economy (*continued*).

<p>Manufacturing</p>	<p>manufacturing; petroleum lubricating oil and grease manufacturing; all other petroleum and coal products manufacturing; petrochemical manufacturing; industrial gas manufacturing; synthetic dye and pigment manufacturing; other basic inorganic chemical manufacturing; other basic organic chemical manufacturing; plastics material and resin manufacturing; synthetic rubber manufacturing; artificial and synthetic fibers and filaments manufacturing; nitrogenous fertilizer manufacturing; phosphatic fertilizer manufacturing; fertilizer mixing; pesticide and other agricultural chemical manufacturing; medicinal and botanical manufacturing; pharmaceutical preparation manufacturing; in-vitro diagnostic substance manufacturing; biological product (except diagnostic) manufacturing; paint and coating manufacturing; adhesive manufacturing; soap and other detergent manufacturing; polish and other sanitation good manufacturing; surface active agent manufacturing; toilet preparation manufacturing; printing ink manufacturing; explosives manufacturing; custom compounding of purchased resins; photographic film and chemical manufacturing; other miscellaneous chemical product manufacturing; plastics packaging materials and unlaminated film and sheet manufacturing; unlaminated plastics profile shape manufacturing; plastics pipe and pipe fitting manufacturing; laminated plastics plate, sheet (except packaging), and shape manufacturing; polystyrene foam product manufacturing; urethane and other foam product (except polystyrene) manufacturing; plastics bottle manufacturing; other plastics product manufacturing; tire manufacturing; rubber and plastics hoses and belting manufacturing; other rubber product manufacturing; pottery, ceramics, and plumbing fixture manufacturing; brick, tile, and other structural clay product manufacturing; flat glass manufacturing; other pressed and blown glass and glassware manufacturing; glass container manufacturing; glass product manufacturing made of purchased glass; cement manufacturing; ready-mix concrete manufacturing; concrete block and brick manufacturing; concrete pipe manufacturing; other concrete product manufacturing; lime manufacturing; gypsum product manufacturing; abrasive product manufacturing; cut stone and stone product manufacturing; ground or treated mineral and earth manufacturing; mineral wool manufacturing; miscellaneous nonmetallic mineral products manufacturing; iron and steel mills and ferroalloy manufacturing; iron, steel pipe and tube manufacturing from purchased steel; rolled steel shape manufacturing; steel wire drawing; alumina refining and primary aluminum production; secondary smelting and alloying of aluminum; aluminum sheet, plate, and foil manufacturing; other aluminum rolling, drawing and extruding; nonferrous metal (exc aluminum) smelting and refining; copper rolling, drawing, extruding and alloying; nonferrous metal, except copper and aluminum, shaping; secondary processing of other nonferrous metals; ferrous metal foundries; nonferrous metal foundries; iron and steel forging; nonferrous forging, custom roll forming; crown and closure manufacturing and metal stamping; cutlery, utensil, pot, and pan manufacturing; handtool manufacturing;</p>
----------------------	---

Table A1. Aggregation scheme of IMPLAN industry sectors representing the Mississippi economy (*continued*).

Manufacturing	<p>prefabricated metal buildings and components manufacturing; fabricated structural metal manufacturing; plate work manufacturing; metal window and door manufacturing; sheet metal work manufacturing; ornamental and architectural metal work manufacturing; power boiler and heat exchanger manufacturing; metal tank (heavy gauge) manufacturing; metal cans manufacturing; metal barrels, drums and pails manufacturing; hardware manufacturing; spring and wire product manufacturing; machine shops; turned product and screw, nut, and bolt manufacturing; metal heat treating; metal coating and nonprecious engraving; electroplating, anodizing, and coloring metal; valve and fittings, other than plumbing, manufacturing; plumbing fixture fitting and trim manufacturing; ball and roller bearing manufacturing; small arms ammunition manufacturing; ammunition, except for small arms, manufacturing; small arms, ordnance, and accessories manufacturing; fabricated pipe and pipe fitting manufacturing; other fabricated metal manufacturing; farm machinery and equipment manufacturing; lawn and garden equipment manufacturing; construction machinery manufacturing; mining machinery and equipment manufacturing; oil and gas field machinery and equipment manufacturing; food product machinery manufacturing; semiconductor machinery manufacturing; sawmill, woodworking, and paper machinery; printing machinery and equipment manufacturing; all other industrial machinery manufacturing; optical instrument and lens manufacturing; photographic and photocopying equipment manufacturing; other commercial service industry machinery manufacturing; air purification and ventilation equipment manufacturing; heating equipment (except warm air furnaces) manufacturing; air conditioning, refrigeration, and warm air heating equipment manufacturing; industrial mold manufacturing; special tool, die, jig, and fixture manufacturing; cutting tool and machine tool accessory manufacturing; machine tool manufacturing; rolling mill and other metalworking machinery manufacturing; turbine and turbine generator set units manufacturing; speed changer, industrial high-speed drive, and gear manufacturing; mechanical power transmission equipment manufacturing; other engine equipment manufacturing; pump and pumping equipment manufacturing; air and gas compressor manufacturing; measuring and dispensing pump manufacturing; elevator and moving stairway manufacturing; conveyor and conveying equipment manufacturing; overhead cranes, hoists, and monorail systems manufacturing; industrial truck, trailer, and stacker manufacturing; power-driven handtool manufacturing; welding and soldering equipment manufacturing; packaging machinery manufacturing; industrial process furnace and oven manufacturing; fluid power cylinder and actuator manufacturing; fluid power pump and motor manufacturing; scales, balances, and miscellaneous general purpose machinery manufacturing; electronic computer manufacturing; computer storage device manufacturing; computer terminals and other computer peripheral equipment manufacturing; telephone apparatus manufacturing; broadcast and wireless communications equipment</p>
---------------	---

Table A1. Aggregation scheme of IMPLAN industry sectors representing the Mississippi economy (*continued*).

Manufacturing	<p>manufacturing; other communications equipment manufacturing; audio and video equipment manufacturing; bare printed circuit board manufacturing; semiconductor and related device manufacturing; capacitor, resistor, coil, transformer, and other inductor manufacturing; electronic connector manufacturing; printed circuit assembly (electronic assembly) manufacturing; other electronic component manufacturing; electromedical and electrotherapeutic apparatus manufacturing; search, detection, and navigation instruments manufacturing; automatic environmental control manufacturing; industrial process variable instruments manufacturing; totalizing fluid meter and counting device manufacturing; electricity and signal testing instruments manufacturing; analytical laboratory instrument manufacturing; irradiation apparatus manufacturing; watch, clock, and other measuring and controlling device manufacturing; blank magnetic and optical recording media manufacturing; software and other prerecorded and record reproducing; electric lamp bulb and part manufacturing; lighting fixture manufacturing; small electrical appliance manufacturing; household cooking appliance manufacturing; household refrigerator and home freezer manufacturing; household laundry equipment manufacturing; other major household appliance manufacturing; power, distribution, and specialty transformer manufacturing; motor and generator manufacturing; switchgear and switchboard apparatus manufacturing; relay and industrial control manufacturing; storage battery manufacturing; primary battery manufacturing; fiber optic cable manufacturing; other communication and energy wire manufacturing; wiring device manufacturing; carbon and graphite product manufacturing; all other miscellaneous electrical equipment and component manufacturing; automobile manufacturing; light truck and utility vehicle manufacturing; heavy duty truck manufacturing; motor vehicle body manufacturing; truck trailer manufacturing; motor home manufacturing; travel trailer and camper manufacturing; motor vehicle gasoline engine and engine parts manufacturing; motor vehicle electrical and electronic equipment manufacturing; motor vehicle steering, suspension component (except spring), and brake systems manufacturing; motor vehicle transmission and power train parts manufacturing; motor vehicle seating and interior trim manufacturing; motor vehicle metal stamping; other motor vehicle parts manufacturing; aircraft manufacturing; aircraft engine and engine parts manufacturing; other aircraft parts and auxiliary equipment manufacturing; guided missile and space vehicle manufacturing; propulsion units and parts for space vehicles and guided missiles manufacturing; railroad rolling stock manufacturing; ship building and repairing; boat building; motorcycle, bicycle, and parts manufacturing; military armored vehicle, tank, and tank component manufacturing; all other transportation equipment manufacturing; wood kitchen cabinet and countertop manufacturing; custom architectural woodwork and millwork; blind and shade manufacturing; surgical and medical instrument manufacturing; surgical appliance and supplies manufacturing; dental equipment and supplies manufacturing;</p>
---------------	---

Table A1. Aggregation scheme of IMPLAN industry sectors representing the Mississippi economy (*continued*).

Manufacturing	ophthalmic goods manufacturing; dental laboratories; jewelry and silverware manufacturing; sporting and athletic goods manufacturing; doll, toy, and game manufacturing; office supplies (except paper) manufacturing; sign manufacturing; gasket, packing, and sealing device manufacturing; musical instrument manufacturing; fasteners, buttons, needles, and pins manufacturing; broom, brush, and mop manufacturing; burial casket manufacturing; all other miscellaneous manufacturing
Wholesale Trade	Wholesale trade
Retail Trade	Retail - motor vehicle and parts dealers; retail - electronics and appliance stores; retail - building material and garden equipment and supplies stores; retail - food and beverage stores; retail - health and personal care stores; retail - gasoline stores; retail - clothing and clothing accessories stores; retail - sporting goods; hobby, musical instrument and book stores; retail - general merchandise stores; retail - miscellaneous store retailers; retail - nonstore retailers
Transportation & Warehousing	Air transportation; rail transportation; water transportation; truck transportation; transit and ground passenger transportation; pipeline transportation; scenic and sightseeing transportation and support activities for transportation; couriers and messengers; warehousing and storage
Information	Newspaper publishers; periodical publishers; book publishers; directory, mailing list, and other publishers; greeting card publishing; software publishers; motion picture and video industries; sound recording industries; radio and television broadcasting, cable and other subscription programming; wired telecommunications carriers; wireless telecommunications carriers (except satellite); satellite, telecommunications resellers, and all other telecommunications; data processing, hosting, and related services; news syndicates, libraries, archives and all other information services; internet publishing and broadcasting and web search portals
Finance & Insurance	Monetary authorities and depository credit intermediation; nondepository credit intermediation and related activities; securities and commodity contracts intermediation and brokerage; other financial investment activities; insurance carriers; insurance agencies, brokerages, and related activities; funds, trusts, and other financial vehicles
Real estate & Rental	Real estate; owner-occupied dwellings; automotive equipment rental and leasing; general and consumer goods rental except video tapes and discs; video tape and disc rental; commercial and industrial machinery and equipment rental and leasing; lessors of nonfinancial intangible assets

Table A1. Aggregation scheme of IMPLAN industry sectors representing the Mississippi economy (*continued*).

Professional-Scientific & Tech Services	Legal services; accounting, tax preparation, bookkeeping, and payroll services; architectural, engineering, and related services; specialized design services; custom computer programming services; computer systems design services; other computer related services, including facilities management; management consulting services; environmental and other technical consulting services; scientific research and development services; advertising, public relations, and related services; photographic services; veterinary services; marketing research and all other miscellaneous professional, scientific, and technical services
Management of Companies	Management of companies and enterprises
Administrative & Waste Services	Office administrative services; facilities support services; employment services; business support services; travel arrangement and reservation services; investigation and security services; services to buildings; landscape and horticultural services; other support services; waste management and remediation services
Educational Services	Elementary and secondary schools; junior colleges; colleges, universities, and professional schools; other educational services
Health & Social Services	Offices of physicians; offices of dentists; offices of other health practitioners; outpatient care centers; medical and diagnostic laboratories; home health care services; other ambulatory health care services; hospitals; nursing and community care facilities; residential mental retardation; mental health, substance abuse and other facilities; individual and family services; community food, housing, and other relief services, including rehabilitation services; child day care services
Arts-Entertainment & Recreation	Performing arts companies; commercial sports except racing; racing and track operation; promoters of performing arts and sports and agents for public figures; independent artists, writers, and performers; museums, historical sites, zoos, and parks; amusement parks and arcades; gambling industries (except casino hotels); other amusement and recreation industries; fitness and recreational sports centers; bowling centers; hotels and motels, including casino hotels; other accommodations; full-service restaurants; limited-service restaurants; all other food and drinking places

Table A1. Aggregation scheme of IMPLAN industry sectors representing the Mississippi economy (*continued*).

Other Services	Automotive repair and maintenance, except car washes; car washes; electronic and precision equipment repair and maintenance; commercial and industrial machinery and equipment repair and maintenance; personal and household goods repair and maintenance; personal care services; death care services; dry-cleaning and laundry services; other personal services; religious organizations; grantmaking, giving, and social advocacy organizations; business and professional associations, labor and civic organizations; private households; not an industry (used and secondhand goods); not an industry (scrap); not an industry (rest of world adjustment); not an industry (non-comparable foreign imports)
Government & Non NAICS	Postal service; federal electric utilities; other federal government enterprises; state government passenger transit; state government electric utilities; other state government enterprises; local government passenger transit; local government electric utilities; other local government enterprises; employment and payroll of state govt, non-education; employment and payroll of state govt, education; employment and payroll of local govt, non-education; employment and payroll of local govt, education; employment and payroll of federal govt, non-military; employment and payroll of federal govt, military



MISSISSIPPI STATE
UNIVERSITY™

FOREST AND WILDLIFE RESEARCH CENTER

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status or any other characteristic protected by the law.