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THE MISSISSIPPI FURNITURE INDUSTRY ECONOMIC IMPACTS

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The Mississippi furniture industry is a major component of the State's economy, directly accounting for over 27,000 jobs, over \$880 million in wages and salaries, over \$3.3 billion in production value, and over \$1.1 billion in value-added. Yet, the economic importance of the Mississippi furniture industry is far greater, as many other sectors of the State economy benefit from the activities of the furniture industry resulting in an even greater economic impact.

The overall economic impact of the furniture industry on the Mississippi economy can be measured by four key statistics: employment, wages and salaries, total industry output, and value-added. Employment is the number of full- and part-time jobs, employee compensation includes wages and salaries, total industry output is the total value of production, and value-added, which is the creation of new wealth, is money available for payment as wages and salaries, owner compensation, and taxes.

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This study was commissioned by the Franklin Furniture Institute. 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.

INTRODUCTION

Furniture is important

The importance of the Mississippi furniture industry can be appreciated by examining the economic impacts resulting from direct, indirect, and induced impacts. The furniture industry impacts the economy directly by its own employment, payment of wages and salaries, production value, and value-added. The industry's production activity creates an indirect impact on the State economy resulting from the industry's purchasing of goods and services necessary for furniture production from other economy sectors. There is also an induced impact resulting from furniture industry employees and suppliers spending their wages and salaries on goods and services. The economic importance of the furniture industry and its impact on other sectors of the Mississippi economy are best illustrated by examining the direct, indirect, and induced impacts independently. This study analyzed the importance of the Mississippi furniture industry to the State's economy by calculating the direct, indirect, and induced impacts, which were expressed in terms of employment, employee compensation, dollar value of output, and value-added.

METHODS

To measure the economic impact of the Mississippi furniture industry, this study utilized an Input-Output (I-O) analysis to trace commodity flows through the economy from producers to consumers. This form of economic analysis involves creating a model that represents inter-industry relations in the economy to trace how the output of one industry is purchased by other industries where it serves as an input of production. Thus, a number of industries can be dependent on one industry as a supplier of inputs and



...the furniture industry accounted for 42,904 jobs and nearly \$1.4 billion in wages and salaries in the state of Mississippi...

a purchaser of outputs. Through this form of model analysis, linkages between inter-related industries and the importance of an industry on a regional economy can be quantified. This basic approach was first applied by Francois Quesnay and more fully developed by Wassily Leontief, for which he won the 1973 Nobel Prize in Economics.

Economic impacts of the Mississippi furniture industry were estimated using the Impact Analysis for Planning (IMPLAN) model originally developed by the U.S.D.A. Forest Service and now maintained by the Minnesota IMPLAN Group, Inc. The IMPLAN model database for 2007 was constructed from national-level I-O matrices and transactions tables and economic data at the State and county level using information from sources such as the U.S. Census Bureau, Regional Economic Information System, Bureau of Labor Statistics, and Bureau of Economic Analysis. IMPLAN models the economy using a 440 sector input-output transactions table. To simplify reporting of results, these sectors were aggregated into 31 similar industry groups. For example, the Mississippi furniture industry includes nine primary furniture sectors: upholstered household furniture manufacturing, non-upholstered wood household furniture manufacturing, metal household furniture manufacturing, institutional furniture manufacturing, other household and institutional furniture, wood office furniture manufacturing, office furniture manufacturing, mattress manufacturing, and furniture and home furnishings stores. These nine sectors were aggregated into one furniture industry group. The aggregation scheme for the 440

IMPLAN sectors is summarized in Table 1.

RESULTS

The direct impacts of the 31 aggregated sectors of the Mississippi economy are presented in Table 2. The furniture industry employed 27,035 individuals in 2007, accounting for about 2% of all employment in the State and paid wages and salaries amounting to \$884 million. The total value of output for the furniture industry was over \$3.3 billion, which included more than \$1.1 billion in value-added.

The total impact of the furniture industry on the Mississippi economy was substantial (Table 3). When considering the combined impact of the direct, indirect, and induced impacts of the furniture industry on other industries in the State economy, the furniture industry accounted for 42,904 jobs and nearly \$1.4 billion in employee compensation. Total output amounted to nearly \$5.5 billion with over \$2.1 billion in value-added.

The indirect impact of the furniture industry accounted for an additional 7,936 jobs as other industries supplied inputs to the furniture industry (Table 4). Induced impacts accounted for an additional 7,933 jobs as other industries provide

goods and services to employees of the furniture industry and its suppliers (Table 4). Indirect employment impacts of the furniture industry were greatest in the Services, Wholesale

Wood Products also benefited from indirect impacts, and Health Services and Financial and Real Estate from induced impacts (Table 5).

...the economic impact of the Mississippi furniture industry accounts for 2.83% of employment, 2.77% of employee compensation, 2.85% of total output, and 2.45% of value-added...

Indirect and induced impacts of the Mississippi furniture industry amounted to over \$2.17 billion in output (Table 6) and \$980 million in value-added (Table 7). Indirect

and Retail Trade, and Foam Product Manufacturing sectors. Induced employment impacts are greatest in the Services, Wholesale and Retail Trade, and Health Services sectors. The furniture industry was directly responsible for wages and salaries amounting to \$884 million; however, indirect and induced impacts accounted for an additional \$281.6 and \$208.1 million in employee compensation for Mississippi, respectively. This generated a total economic impact of \$1.37 billion in employee compensation. Industries experiencing the largest benefit as measured by employee compensation included Wholesale and Retail Trade and Services. Health Services, Foam Product Manufacturing, Financial and Real Estate, Transportation and Communication Service, and Solid

output impacts were greatest in Foam Products Manufacturing, Wholesale and Retail Trade, Services, Solid Wood Products, and Petroleum and Chemicals. Value-added indirect impacts accrued to Wholesale and Retail Trade, Services, Foam Products Manufacturing, Financial and Real Estate, and Transportation and Communication Services. Induced impacts in total output and value-added also accrued to Services, Wholesale and Retail Trade, Financial and Real Estate, and Health Services.

DISCUSSION

The US furniture industry is facing stiff competition from foreign imports. China, Vietnam, and others have captured much of the domestic market (Wan, 2009). The impact of these imports is felt strongly in

states where furniture production is concentrated. Mississippi is no exception. Direct employment in the furniture industry decreased 9.4% from 29,848 jobs in 2006 to 27,035 in 2007, a loss of 2,813 jobs. Employee compensation dropped by almost 20% and value-added dropped by 27% during the same one year time span. Output fared slightly better, decreasing by only 6%. The impacts were felt throughout the state economy. An additional 1,829 indirect and induced jobs were lost as a result of the direct losses to the furniture industry.

The Mississippi furniture industry is still very important to the State economy both directly and in its impact on other Mississippi industries. When the full scope of the furniture industry and its interrelationships with other sectors of the economy were considered, the furniture industry provided the Mississippi economy with 42,904 jobs, nearly \$1.4 billion in employee compensation, \$5.5 billion in total output, and over \$2.1 billion in value-added. When considered as a percentage of the State economy, the economic impact of the Mississippi furniture industry accounts for 2.83% of employment, 2.77% of employee compensation, 2.85% of total output, and 2.45% of value-added. Clearly, the Mississippi furniture industry still plays a very strong role in the State's economy.

LITERATURE CITED

- Henderson, J.E., I.A. Munn. 2008. The Mississippi furniture industry and its economic impacts to the state economy. Forest and Wildlife Research Center, Research Bulletin FO371, Mississippi State University. 18 pp.
- Minnesota IMPLAN Group, Inc. 2000. User's guide, analysis guide, data guide: IMPLAN Professional Version 2.0. 2nd Edition. Stillwater, MN.
- Minnesota IMPLAN Group, Inc. 2004. IMPLAN Professional, Version 2.0, Social Accounting and Impact Analysis Software. Stillwater, Minnesota.
- Minnesota IMPLAN Group, Inc. 2007. IMPLAN data for Mississippi. Stillwater, Minnesota.
- Wan, Y. 2009. Assessing the import demand of wooden furniture in the United States and its Impact on the furniture industry. Master Thesis, Department of Forest Products, Mississippi State University.

Table 1. Aggregation scheme of industry sector groups used for Impact Analysis for Planning (IMPLAN) input-output analysis of furniture industry economic impacts on the Mississippi economy.¹

Agricultural Processing

Dog and cat food manufacturing; Flour milling and malt manufacturing; Wet corn milling; Soybean and other oilseed processing; Fats and oils refining and blending; Breakfast cereal manufacturing; Fluid milk and butter manufacturing; Cheese manufacturing; Dry, condensed, and evaporated dairy product manufacturing; Ice cream and frozen dessert manufacturing; Animal (except poultry) slaughtering, rendering, and processing; Poultry processing

Agricultural Products

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; Cattle ranching and farming; Dairy cattle and milk production; Poultry and egg production; Animal production, except cattle and poultry and eggs

Balance

Used and secondhand goods; Scrap; Rest of the world adjustment; Noncomparable foreign imports

Construction

Construction of new nonresidential commercial and health care structures; Construction of new nonresidential manufacturing structures; Construction of other new nonresidential structures; Construction of new residential permanent site single- and multi-family structures; Construction of other new residential structures; Maintenance and repair construction of nonresidential structures; Maintenance and repair construction of residential structures

Domestic Services

Radio and television broadcasting; Cable and other subscription programming; Telecommunications; 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

¹ The 440 industry sectors included in the aggregation are defined by the Minnesota IMPLAN Group, Inc. 2007.

Table 1. Aggregation scheme of industry sector groups used for Impact Analysis for Planning (IMPLAN) input-output analysis of furniture industry economic impacts on the Mississippi economy (continued).

Education

Private elementary and secondary schools; Private junior colleges, colleges, universities, and professional schools; Other private educational services; Employment and payroll of State and Local Govt, Education

Fabric Mills and Leather

Fiber, yarn, and thread mills; Broadwoven fabric mills; Narrow fabric mills and schiffli machine embroidery; Textile and fabric finishing mills; Leather and hide tanning and finishing; Other leather and allied product manufacturing

Farm Inputs and Machinery

Other animal food manufacturing; Fertilizer manufacturing; Pesticide and other agricultural chemical manufacturing; Farm machinery and equipment manufacturing; Lawn and garden equipment manufacturing

Financial and Real Estate

Monetary authorities and depository credit intermediation activities; Nondepository credit intermediation and related activities; Securities, commodity contracts, investments, and related activities; Insurance carriers; Insurance agencies, brokerages, and related activities; Funds, trusts, and other financial vehicles; Real estate establishments; Imputed rental activity for owner-occupied dwellings

Foam Product Manufacturing

Polystyrene foam product manufacturing; Urethane and other foam product (except polystyrene) manufacturing

Food Processing

Sugar cane mills and refining; Beet sugar manufacturing; Chocolate and confectionery manufacturing from cacao beans; Confectionery manufacturing from purchased chocolate ; Nonchocolate confectionery manufacturing ; Frozen food manufacturing; Fruit and vegetable canning, pickling, and drying; Seafood product preparation and packaging; Bread and bakery product manufacturing; Cookie, cracker, and pasta manufacturing; Tortilla manufacturing; Snack food manufacturing; Coffee and tea manufacturing; Flavoring syrup and concentrate manufacturing; Seasoning and dressing manufacturing; All other food manufacturing; Soft drink and ice manufacturing; Breweries; Wineries; Distilleries; Tobacco product manufacturing

Furniture

Upholstered household furniture manufacturing; Nonupholstered wood household furniture manufacturing; Metal and other household furniture (except wood) manufacturing; Institutional furniture manufacturing; Wood television, radio, and sewing machine cabinet manufacturing; Office furniture and custom architectural woodwork and millwork manufacturing; Mattress manufacturing; Furniture and home furnishings

Glass, Stone, and Clay

Pottery, ceramics, and plumbing fixture manufacturing; Brick, tile, and other structural clay product manufacturing; Clay and nonclay refractory 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 pipe, brick, and block manufacturing; Other concrete product manufacturing; Lime and 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 product manufacturing

Government

US Postal Service; Federal electric utilities; State and local government passenger transit; Other state and local government enterprises; Employment and payroll of State and Local Govt, Non-Education; Employment and payroll of Federal Govt, Non-Military

Health Services

Offices of physicians, dentists, and other health practitioners; Home health care services; Medical and diagnostic labs and outpatient and other ambulatory care services; Private hospitals

Logging and Miscellaneous Forest Products

Forestry, forest products, and timber tract production; Commercial logging

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Table 1. Aggregation scheme of industry sector groups used for Impact Analysis for Planning (IMPLAN) input-output analysis of furniture industry economic impacts on the Mississippi economy (continued).

Machinery and Equipment

Construction machinery manufacturing; Mining and oil and gas field machinery manufacturing; Other industrial machinery manufacturing; Plastics and rubber industry machinery manufacturing; Semiconductor machinery manufacturing; Vending, commercial, industrial, and office machinery manufacturing; Optical instrument and lens manufacturing; Other commercial and 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; Metal cutting and forming machine tool manufacturing; Special tool, die, jig, and fixture manufacturing; Cutting tool and machine tool accessory 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; Material handling equipment manufacturing; Power-driven handtool manufacturing; Other general purpose machinery manufacturing; Packaging machinery manufacturing; Industrial process furnace and oven manufacturing; Fluid power process machinery manufacturing; 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; Communication and energy wire and cable manufacturing; Wiring device manufacturing; Carbon and graphite product manufacturing; All other miscellaneous electrical equipment and component 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; Electric lamp bulb and part manufacturing; Lighting fixture manufacturing; Electric housewares and household fan manufacturing; Household vacuum cleaner manufacturing; Household cooking appliance manufacturing; Household refrigerator and home freezer manufacturing; Household laundry equipment manufacturing; Other major household appliance manufacturing; Electric power 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; Miscellaneous electrical equipment manufacturing

Metal Industries

Iron and steel mills and ferroalloy manufacturing; Steel product manufacturing from purchased steel; Alumina refining and primary aluminum production; Secondary smelting and alloying of aluminum; Aluminum product manufacturing from purchased aluminum; Primary smelting and refining of copper; Primary smelting and refining of nonferrous metal (except copper and aluminum); Copper rolling, drawing, extruding and alloying; Nonferrous metal (except copper and aluminum) rolling, drawing, extruding and alloying; Ferrous metal foundries; Nonferrous metal foundries; All other forging, stamping, and sintering; Custom roll forming; Crown and closure manufacturing and metal stamping; Cutlery, utensil, pot, and pan manufacturing; Handtool manufacturing; Plate work and fabricated structural product manufacturing; Ornamental and architectural metal products manufacturing; Power boiler and heat exchanger manufacturing; Metal tank (heavy gauge) manufacturing; Metal can, box, and other metal container (light gauge) manufacturing; Ammunition manufacturing; Arms, ordnance, and accessories manufacturing; Hardware manufacturing; Spring and wire product manufacturing; Machine shops; Turned product and screw, nut, and bolt manufacturing; Coating, engraving, heat treating and allied activities; Valve and fittings other than plumbing manufacturing; Plumbing fixture fitting and trim manufacturing; Ball and roller bearing manufacturing; Fabricated pipe and pipe fitting manufacturing; Other fabricated metal manufacturing

Mining

Extraction of oil and natural gas; Mining coal; Mining iron ore; Mining copper, nickel, lead, and zinc; Mining gold, silver, and other metal ore; Mining and quarrying stone; Mining and quarrying sand, gravel, clay, and ceramic and refractory minerals; Mining and quarrying other nonmetallic minerals; Drilling oil and gas wells; Support activities for oil and gas operations; Support activities for other mining

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Table 1. Aggregation scheme of industry sector groups used for Impact Analysis for Planning (IMPLAN) input-output analysis of furniture industry economic impacts on the Mississippi economy (continued).

Miscellaneous Manufacturing

Nonwoven fabric mills; Knit fabric mills; Fabric coating mills; Carpet and rug mills; Curtain and linen mills; Textile bag and canvas mills; All other textile product mills; 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; Footwear manufacturing; Manufactured home (mobile home) manufacturing; Printing; Support activities for printing; Watch, clock, and other measuring and controlling device manufacturing; Wood kitchen cabinet and countertop manufacturing; Showcase, partition, shelving, and locker manufacturing; Blind and shade manufacturing; 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; All other miscellaneous manufacturing; Broom, brush, and mop manufacturing

Petroleum and Chemicals

Petroleum refineries; Asphalt paving mixture and block manufacturing; Asphalt shingle and coating materials manufacturing; Petroleum lubricating oil and grease manufacturing; All other petroleum and coal products manufacturing; Petrochemical manufacturing; Industrial gas manufacturing; Synthetic dye and pigment manufacturing; Alkalies and chlorine manufacturing; Carbon black manufacturing; All 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; 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 cleaning compound manufacturing; Toilet preparation manufacturing; Printing ink manufacturing; All other chemical product and preparation 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; Plastics bottle manufacturing; Other plastics product manufacturing; Tire manufacturing; Rubber and plastics hoses and belting manufacturing; Other rubber product manufacturing

Pulp and Paper

Pulp mills; Paper mills; Paperboard Mills; Paperboard container manufacturing; Coated and laminated paper, packaging paper and plastics film manufacturing; All other paper bag and coated and treated paper manufacturing; Stationery product manufacturing; Sanitary paper product manufacturing; All other converted paper product manufacturing

Recreation and Amusement

Motion picture and video industries; Sound recording industries; Performing arts companies; Spectator sports companies; Promoters of performing arts and sports and agents for public figures; Independent artists, writers, and performers; Museums, historical sites, zoos, and parks; Fitness and recreational sports centers; Bowling centers; Amusement parks, arcades, and gambling industries

Resource Services

Commercial Fishing; Commercial hunting and trapping; Support activities for agriculture and forestry

Services

Couriers and messengers; Internet publishing and broadcasting; Data processing, hosting, ISP, web search portals and related services; Other information 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, scientific, and technical consulting services; Environmental and other technical consulting services; Scientific research and development services; Advertising and related services; Photographic services; Veterinary services; All other miscellaneous professional, scientific, and technical services; Management of companies and enterprises; Employment services; Travel arrangement and reservation services; Office administrative services; Facilities support services; Business support services; Investigation and security services; Services to buildings and dwellings; Other support services; Nursing and residential care facilities; Child day care services; Individual and family services; Community food, housing, and other relief services, including rehabilitation services; Other amusement and recreation industries; Hotels and motels, including casino hotels; Other accommodations; Food services and drinking places; 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; Civic, social, professional, and similar organizations; Private household operations

Table 1. Aggregation scheme of industry sector groups used for Impact Analysis for Planning (IMPLAN) input-output analysis of furniture industry economic impacts on the Mississippi economy (continued).

Solid Wood Products

Sawmills and wood preservation; Veneer and plywood manufacturing; Engineered wood member and truss manufacturing; Reconstituted wood product manufacturing; Wood windows and doors and millwork manufacturing; Wood container and pallet manufacturing; Prefabricated wood building manufacturing; All other miscellaneous wood product manufacturing

Technology Industries

Photographic and photocopying equipment manufacturing; Electronic computer manufacturing; Computer storage device manufacturing; Computer terminals and other computer peripheral equipment manufacturing; Telephone apparatus manufacturing; Broadcast and wireless communications equipment manufacturing; Other communications equipment manufacturing; Audio and video equipment manufacturing; Electron tube manufacturing; Bare printed circuit board manufacturing; Semiconductor and related device manufacturing; Electronic 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 meters and counting devices manufacturing; Electricity and signal testing instruments manufacturing; Analytical laboratory instrument manufacturing; Irradiation apparatus manufacturing; Software, audio, and video media for reproduction; Magnetic and optical recording media manufacturing; Guided missile and space vehicle manufacturing; Military armored vehicle, tank, and tank component manufacturing; Surgical and medical instrument, laboratory and medical instrument manufacturing; Surgical appliance and supplies manufacturing; Dental equipment and supplies manufacturing; Ophthalmic goods manufacturing; Dental laboratories manufacturing

Transportation and Communication Services

Transport by air; Transport by rail; Transport by water; Transport by truck; Transit and ground passenger transportation; Transport by pipeline; Scenic and sightseeing transportation and support activities for transportation

Transportation Equipment

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 parts manufacturing; Aircraft manufacturing; Aircraft engine and engine parts manufacturing; Other aircraft parts and auxiliary equipment 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; All other transportation equipment manufacturing

Utility Services

Electric power generation, transmission, and distribution; Natural gas distribution; Water, sewage and other treatment and delivery systems; Waste management and remediation services

Wholesale and Retail Trade

Wholesale trade businesses; Motor vehicle and parts; Electronics and appliances; Building material and garden supply; Food and beverage; Health and personal care; Gasoline stations; Clothing and clothing accessories; Sporting goods, hobby, book and music; General merchandise; Miscellaneous; Retail Nonstores - Direct and electronic sales; Warehousing and storage; Newspaper publishers; Periodical publishers; Book publishers; Directory, mailing list, and other publishers; Software publishers

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Table 2. Direct effects on Mississippi employment, wages, output, and value-added derived from 31 aggregated industrial sectors of the Mississippi economy, 2007.

Model Sectors (Aggregated)	Employment (Full and Part-Time Jobs)	Wages and Salaries (\$ Millions)	Total Industry Output (\$ Millions)	Value-Added (\$ Millions)
Furniture	27,035	884.01	3,317.40	1,136.04
Agricultural Products	49,333	214.70	4,422.36	1,432.86
Logging and Miscellaneous Forest Products	7,281	150.40	1,868.40	1,070.97
Resource Services	9,336	177.00	254.10	214.376
Mining	9,148	435.56	4,074.91	2,181.37
Utility Services	10,377	753.46	3,926.21	2,439.19
Construction	101,747	2,697.62	12,194.77	4,295.32
Agricultural Processing	19,407	596.22	5,703.66	671.66
Farm Inputs and Machinery	2,389	120.09	1,512.19	264.73
Food Processing	5,835	186.18	1,930.11	230.91
Fabric Mills and Leather	708	22.91	141.24	24.58
Miscellaneous Manufacturing	14,008	496.95	2,254.88	600.89
Solid Wood Products	14,061	573.04	3,150.00	949.03
Pulp and Paper	4,837	345.58	2,418.55	579.36
Petroleum and Chemicals	14,234	1,047.99	20,311.07	2,345.76
Foam Product Manufacturing	1,923	74.80	565.77	136.34

Table 2. Direct effects on Mississippi employment, wages, output, and value-added derived from 31 aggregated industrial sectors of the Mississippi economy, 2007 (continued).

Model Sectors (Aggregated)	Employment (Full and Part-Time Jobs)	Wages and Salaries (\$ Millions)	Total Industry Output (\$ Millions)	Value- Added (\$ Millions)
Glass, Stone, and Clay	4,803	226.19	1,230.48	422.37
Metal Industries	14,055	700.74	5,537.27	1,283.22
Machinery and Equipment	21,153	1,038.58	7,737.80	1,685.59
Technology Industries	3,805	183.87	1,060.93	212.45
Transportation Equipment	26,308	1,690.71	11,977.07	2,296.26
Wholesale and Retail Trade	219,193	5,953.09	16,648.02	10,890.68
Transportation and Communication Services	39,461	1,428.56	5,916.66	2,375.33
Services	390,709	8,438.02	23,368.96	12,457.87
Recreation and Amusement	23,683	480.58	1,773.92	1,018.09
Domestic Services	17,121	648.39	3,887.12	1,778.18
Financial and Real Estate	80,740	2,086.37	18,841.73	6,737.42
Education	145,315	5,657.59	6,806.48	6,350.39
Health Services	79,151	3,730.47	8,278.69	4,995.80
Government	160,588	8,609.15	11,412.00	10,497.58
Total	1,517,746	49,648.79	192,522.703	86,415.14

Table 3. Total effects (direct, indirect, and induced) of the furniture industry on Mississippi employment, wages, output, and value-added derived from 31 aggregated industrial sectors of the Mississippi economy, 2007.

Model Sectors (Aggregated)	Employment (Full and Part-Time Jobs)	Wages and Salaries (\$ Millions)	Total Industry Output (\$ Millions)	Value-Added (\$ Millions)
Furniture	27,035	884.01	3,317.40	1,136.04
Wholesale and Retail Trade	3,720	118.57	338.49	218.24
Financial and Real Estate	1,339	30.83	299.73	184.81
Services	4,623	101.55	290.84	154.18
Foam Product Manufacturing	1,006	38.04	308.56	67.49
Health Services	968	46.08	102.42	62.70
Transportation and Communication Services	867	30.59	111.95	50.74
Utility Services	142	11.64	61.40	40.14
Solid Wood Products	545	23.48	127.53	37.05
Domestic Services	262	9.77	59.39	25.70
Petroleum and Chemicals	230	13.24	151.91	25.60
Logging and Miscellaneous Forest Products	208	4.03	44.34	25.07
Government	240	16.49	31.09	18.55
Miscellaneous Manufacturing	397	11.08	61.02	12.92
Construction	228	6.14	21.04	9.44
Metal Industries	116	5.05	26.40	8.24

Table 3. Total effects (direct, indirect, and induced) of the furniture industry on Mississippi employment, wages, output, and value-added derived from 31 aggregated industrial sectors of the Mississippi economy, 2007 (continued).

Model Sectors (Aggregated)	Employment (Full and Part-Time Jobs)	Wages and Salaries (\$ Millions)	Total Industry Output (\$ Millions)	Value-Added (\$ Millions)
Recreation and Amusement	250	3.73	14.95	7.47
Mining	22	0.62	10.57	6.26
Fabric Mills and Leather	136	5.41	27.83	5.79
Education	220	4.33	10.17	5.09
Agricultural Products	146	0.70	11.19	3.79
Technology Industries	42	1.79	12.17	2.13
Agricultural Processing	51	1.78	17.59	1.99
Transportation Equipment	24	1.42	11.83	1.82
Machinery and Equipment	22	1.10	5.99	1.50
Food Processing	20	0.75	5.48	0.92
Resource Services	32	0.62	0.88	0.74
Pulp and Paper	6	0.39	2.29	0.54
Glass, Stone, and Clay	7	0.26	1.35	0.44
Farm Inputs and Machinery	3	0.15	2.25	0.36
Total	42,904	1,373.53	5,488.05	2,115.76

Table 4. Direct, indirect, and induced effects of the furniture industry on Mississippi employment derived from 31 aggregated industrial sectors of the Mississippi economy, 2007.

Industry	Direct	Indirect	Induced	Total
Furniture	27,035	0	0	27,035
Services	0	1,719	2,903	4,623
Wholesale and Retail Trade	0	1,621	2,099	3,720
Financial and Real Estate	0	645	694	1,339
Foam Product Manufacturing	0	1,002	4	1,006
Health Services	0	0	968	968
Transportation and Communication Services	0	727	140	867
Solid Wood Products	0	535	10	545
Miscellaneous Manufacturing	0	363	34	397
Domestic Services	0	151	111	262
Recreation and Amusement	0	53	196	250
Government	0	114	127	240
Petroleum and Chemicals	0	194	36	230
Construction	0	155	73	228
Education	0	9	211	220
Logging and Miscellaneous Forest Products	0	207	2	208
Agricultural Products	0	18	128	146
Utility Services	0	80	63	142
Fabric Mills and Leather	0	135	1	136
Metal Industries	0	113	2	116
Agricultural Processing	0	2	49	51
Technology Industries	0	25	17	42
Resource Services	0	16	16	32
Transportation Equipment	0	12	12	24
Mining	0	11	11	22
Machinery and Equipment	0	17	5	22
Food Processing	0	1	19	20
Glass, Stone, and Clay	0	5	2	7
Pulp and Paper	0	6	1	6
Farm Inputs and Machinery	0	1	2	3
Total	27,035	7,936	7,933	42,904

Table 5. Direct, indirect, and induced effects of the furniture industry on Mississippi wages (\$millions) derived from 31 aggregated industrial sectors of the Mississippi economy, 2007.

Industry	Direct	Indirect	Induced	Total
Furniture	884.01	0	0	884.01
Wholesale and Retail Trade	0	67.06	51.52	118.57
Services	0	49.26	52.29	101.55
Health Services	0	0	46.08	46.08
Foam Product Manufacturing	0	37.89	0.15	38.04
Financial and Real Estate	0	14.09	16.73	30.83
Transportation and Communication Services	0	25.80	4.79	30.59
Solid Wood Products	0	23.10	0.38	23.48
Government	0	7.80	8.70	16.49
Petroleum and Chemicals	0	10.89	2.35	13.24
Utility Services	0	6.89	4.75	11.64
Miscellaneous Manufacturing	0	10.00	1.08	11.08
Domestic Services	0	5.70	4.07	9.77
Construction	0	4.04	2.10	6.14
Fabric Mills and Leather	0	5.38	0.03	5.41
Metal Industries	0	4.95	0.11	5.05
Education	0	0.19	4.14	4.33
Logging and Miscellaneous Forest Products	0	4.00	0.03	4.03
Recreation and Amusement	0	0.41	3.32	3.73
Technology Industries	0	1.03	0.76	1.79
Agricultural Processing	0	0.06	1.71	1.78
Transportation Equipment	0	0.72	0.69	1.42
Machinery and Equipment	0	0.86	0.23	1.10
Food Processing	0	0.03	0.72	0.75
Agricultural Products	0	0.08	0.62	0.70
Resource Services	0	0.35	0.26	0.62
Mining	0	0.34	0.28	0.62
Pulp and Paper	0	0.35	0.04	0.39
Glass, Stone, and Clay	0	0.20	0.06	0.26
Farm Inputs and Machinery	0	0.08	0.06	0.15
Total	884.01	281.57	208.07	1373.53

Table 6. Direct, indirect, and induced effects of the furniture industry on Mississippi output (\$millions) by aggregated industrial sectors of the Mississippi economy, 2007.

Industry	Direct	Indirect	Induced	Total
Furniture	3,317.40	0	0	3,535.56
Wholesale and Retail Trade	0	194.40	144.10	369.64
Foam Product Manufacturing	0	307.45	1.11	343.03
Financial and Real Estate	0	85.84	213.88	333.02
Services	0	142.94	147.9	183.16
Petroleum and Chemicals	0	105.47	46.44	142.66
Solid Wood Products	0	125.61	1.92	126.95
Transportation and Communication Services	0	92.76	19.19	108.33
Health Services	0	0	102.42	107.53
Utility Services	0	36.91	24.49	59.14
Miscellaneous Manufacturing	0	56.40	4.62	57.36
Domestic Services	0	34.73	24.67	54.20
Logging and Miscellaneous Forest Products	0	43.96	0.38	40.27
Government	0	13.97	17.12	33.92
Fabric Mills and Leather	0	27.61	0.23	28.12
Metal Industries	0	25.80	0.59	24.34
Construction	0	13.48	7.56	19.81
Agricultural Processing	0	0.65	16.94	18.91
Recreation and Amusement	0	2.17	12.77	16.06
Technology Industries	0	7.64	4.53	14.75
Transportation Equipment	0	3.52	8.31	12.72
Agricultural Products	0	1.10	10.09	12.63
Mining	0	5.29	5.27	11.08
Education	0	0.48	9.69	10.69
Machinery and Equipment	0	4.35	1.64	7.31
Food Processing	0	0.25	5.23	5.73
Pulp and Paper	0	2.02	0.26	2.77
Farm Inputs and Machinery	0	1.08	1.18	2.31
Glass, Stone, and Clay	0	1.02	0.33	1.83
Resource Services	0	0.43	0.45	1.58
Total	3,317.40	1,337.34	833.31	5,685.42

Table 7. Direct, indirect, and induced effects of the furniture industry on Mississippi value-added (\$millions) derived from 31 aggregated industrial sectors of the Mississippi economy, 2007.

Industry	Direct	Indirect	Induced	Total
Furniture	1,136.04	0	0	1,136.04
Wholesale and Retail Trade	0	122.69	95.55	218.24
Financial and Real Estate	0	54.19	130.61	184.81
Services	0	76.82	77.35	154.18
Foam Product Manufacturing	0	67.21	0.27	67.49
Health Services	0	0	62.70	62.70
Transportation and Communication Services	0	42.84	7.90	50.74
Utility Services	0	24.25	15.89	40.14
Solid Wood Products	0	36.45	0.60	37.05
Domestic Services	0	14.24	11.45	25.70
Petroleum and Chemicals	0	19.74	5.86	25.60
Logging and Miscellaneous Forest Products	0	24.86	0.22	25.07
Government	0	8.74	9.81	18.55
Miscellaneous Manufacturing	0	11.69	1.23	12.92
Construction	0	6.08	3.36	9.44
Metal Industries	0	8.07	0.17	8.24
Recreation and Amusement	0	0.76	6.72	7.47
Mining	0	3.12	3.14	6.26
Fabric Mills and Leather	0	5.75	0.04	5.79
Education	0	0.25	4.85	5.09
Agricultural Products	0	0.49	3.31	3.79
Technology Industries	0	1.18	0.95	2.13
Agricultural Processing	0	0.07	1.92	1.99
Transportation Equipment	0	0.87	0.95	1.82
Machinery and Equipment	0	1.15	0.35	1.50
Food Processing	0	0.04	0.88	0.92
Resource Services	0	0.37	0.37	0.74
Pulp and Paper	0	0.48	0.06	0.54
Glass, Stone, and Clay	0	0.33	0.10	0.44
Farm Inputs and Machinery	0	0.17	0.20	0.36
Total	1,136.04	532.92	446.80	2,115.76

**If you would like more
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