

Freight Transportation Profile—Mississippi Freight Analysis Framework

Understanding future freight activity is important for matching infrastructure supply to demand and for assessing potential investment and operational strategies. To help decisionmakers identify areas in need of capacity improvements, the U.S. Department of Transportation developed the Freight Analysis Framework (FAF), a comprehensive national data and analysis tool, including county-to-county freight flows for the truck, rail, water, and air modes. FAF also forecasts freight activity in 2010 and 2020 for each of these modes. Information about the methodology used in developing FAF is available on the Office of Freight Management and Operations' website www.ops.fhwa.dot.gov/freight.

The U.S. freight transportation network moves a staggering volume of goods each year. Over 15 billion tons of goods, worth over \$9 trillion, were moved in 1998. The movement of bulk goods, such as grains, coal, and ores, still comprises a large share of the tonnage moved on the U.S. freight network. However, lighter and more valuable goods, such as computers and office equipment, now make up an increasing proportion of what is moved. FAF estimates that trucks carried about 71 percent of the total tonnage and 80 percent of the total value of U.S. shipments in 1998. By 2020, the U.S. transportation system is expected to handle about 23 billion tons of cargo valued at nearly \$30 trillion.

Mississippi

Table 1 presents information on freight shipments that have either an origin or a destination in Mississippi. As shown in the table, trucks moved a large percentage of the tonnage and value of shipments, followed by the rail and water modes. Figures 1 and 2 show freight flows on the highway and rail modes.

Truck traffic is expected to grow throughout the state over the next 20 years. Much of the growth will occur in urban areas and on the Interstate highway system (Figures 3 and 4). Truck traffic moving to and from Mississippi accounted for 12 percent of the average annual daily truck traffic (AADTT) on the FAF road network. Approximately 8 percent of truck traffic involved in-state shipments, and 33 percent involved trucks traveling across the state to other markets. Nearly 47 percent of the AADTT were not identified with a route-specific origin or destination.

Table 2 shows the top five commodity groups shipped to, from, and within Mississippi by all modes. The top commodities by weight are lumber or wood products and secondary traffic. By value, secondary traffic is the top commodity. Secondary traffic is defined as freight flows to and from distribution centers or through intermodal facilities. No commodities are assigned to this intermediate step in the transportation process.

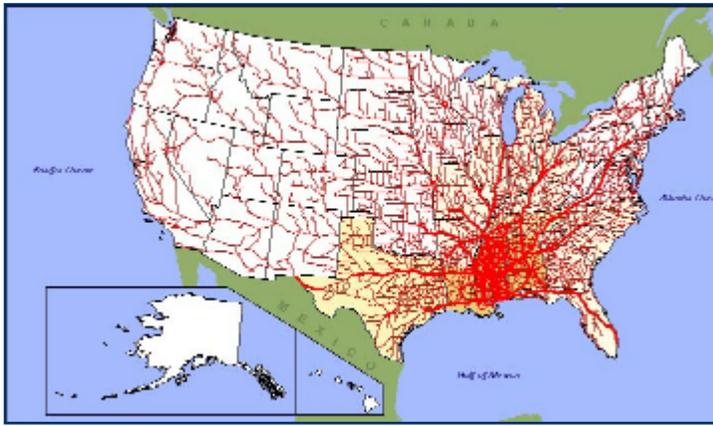
Table 1. Freight Shipments To, From, and Within Mississippi: 1998, 2010, and 2020

MISSISSIPPI	Tons (millions)			Value (billions \$)		
	1998	2010	2020	1998	2010	2020
State Total	262	376	459	168	325	509
By Mode						
Air	<1	<1	<1	2	5	9
Highway	173	257	321	148	289	454
Other ^a	25	34	38	3	5	7
Rail	31	43	53	9	17	26
Water	33	42	48	5	9	13
By Destination/Market						
Domestic	229	328	401	157	303	472
International	33	48	58	11	22	37

Note: Modal numbers may not add to totals due to rounding.

^a The "Other" category includes international shipments that moved via pipeline or by an unspecified mode.

Figure 1. Freight Flows To, From, and Within Mississippi by Truck: 1998 (tons)



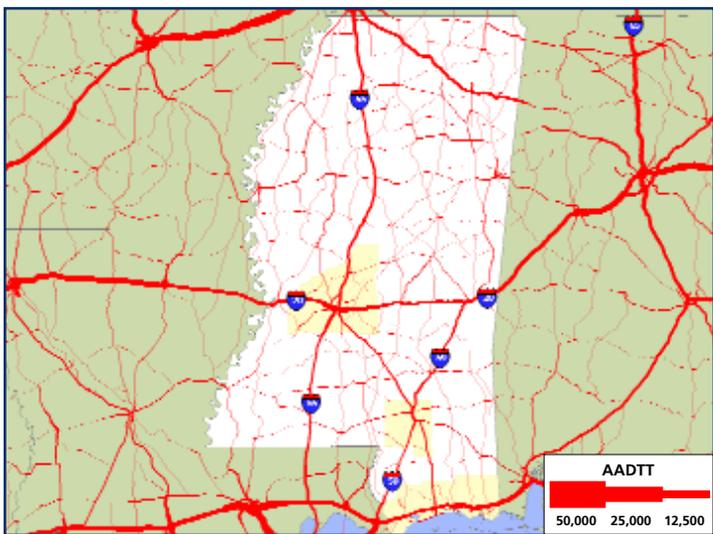
Federal Highway Administration

Figure 2. Freight Flows To, From, and Within Mississippi by Rail: 1998 (tons)



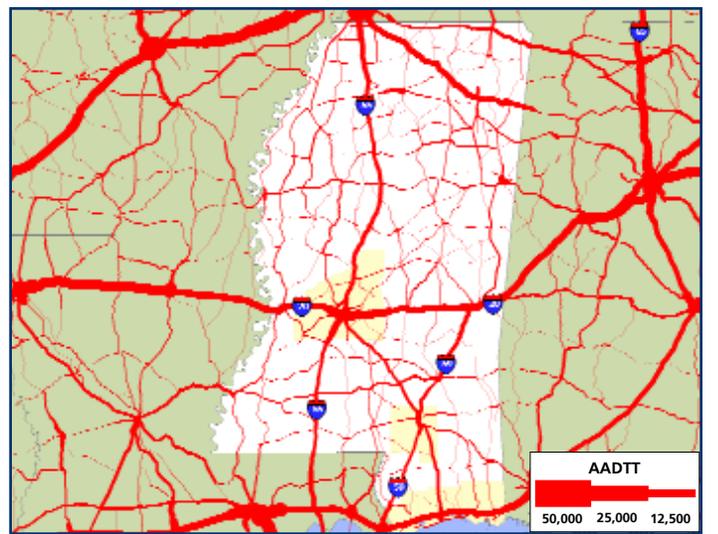
Federal Railroad Administration

Figure 3. Estimated Average Annual Daily Truck Traffic: 1998



Federal Highway Administration

Figure 4. Estimated Average Annual Daily Truck Traffic: 2020



Federal Highway Administration

Table 2. Top Five Commodities Shipped To, From, and Within Mississippi by All Modes: 1998 and 2020

Commodity	Tons (millions)		Commodity	Value (billions \$)	
	1998	2020		1998	2020
Lumber/Wood Products	46	85	Secondary Traffic	35	144
Secondary Traffic	34	93	Chemicals/Allied Products	22	53
Crude Petroleum/Natural Gas	24	35	Lumber/Wood Products	17	55
Nonmetallic Minerals	23	24	Food/Kindred Products	16	55
Farm Products	23	28	Transportation Equipment	11	25

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November 2002
FHWA-OP-03-034
EDL 13722

A series of FAF products are available on the website noted below. FAF outputs include freight flow maps for states, modes, and gateways; detailed databases on traffic flows and commodity movements; information on the methodologies used to develop FAF; and forecast assumptions.

The U.S. Department of Transportation, Bureau of Transportation Statistics (BTS) is also developing a series of state transportation profiles. For more information and to obtain a copy of the BTS reports, please call 202-366-DATA.



U.S. Department of Transportation

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