

THE MISSISSIPPI RIVER:
The Lifeblood of America
The Father of Waters



WORLD TRADE CENTER®
NEW ORLEANS

Serving the State of Louisiana

For Federal Reserve Bank Meeting 6/4/2015

MISSISSIPPI RIVER WATERSHED



- 3,896 miles in length
- 31 U.S. States and 2 Canadian provinces
- 4th longest river in the world
- Upper Mississippi and Lower Mississippi River

HISTORICAL IMPORTANCE OF THE MISSISSIPPI



- *Worlds largest waterway* – the main economic artery of the Mid-America waterway system; Since its discovery always been a very important asset
- Cheaper to send freight from Cincinnati, Ohio, to the U.S. east coast via the Mississippi and the long sea passage from New Orleans than to transport it over the Appalachians;

CURRENT ECONOMIC IMPACT

- \$200 billion generated annually by the Mississippi as a whole;³
- Approx. 40 million people living around the Mississippi River
- Almost 600 million tons of commodities shipped on the Mississippi River:
 - 470 million tons of commodities shipped on Lower Mississippi River/year (\$6 billion in revenue and 29,000 jobs)⁴
 - 125 million tons of commodities shipped/year on Upper Mississippi River;⁵
 - 60% of U.S. Grain , 20% of Oil and Gas, 20% of Coal Shipments
- Over 1 million jobs rely on Mississippi's transportation system:
 - 771,000 jobs depend on the Lower Mississippi alone;²
- 52,600 farms on Upper Mississippi River Corridor:⁶
 - \$5 billion/ year in revenue, employing 94,000 people;

² Lower Mississippi Economic Conservation Committee, The Economic Profile of the Lower Mississippi River (Feb 2014), available at, http://www.lmrcc.org/wp-content/uploads/2014/02/LMR_Economic_Profile_February2014.pdf

³ Id.

⁴ WTC, Mississippi River Alliance, <http://wtcmsra.org/>

⁵ Economic Profile of the Upper Mississippi River, Industrial Economics (March 1999), available at, http://nctc.fws.gov/Pubs3/economicprofile_miss99.pdf

⁶ Center for Global Environment Education, <http://cgee.hamline.edu/rivers/Resources/Feature/feat1.htm>

⁷ Id.

ECONOMIC IMPACT OF LOWER MISSISSIPPI RIVER REGION

10 Economic Sectors dominate:

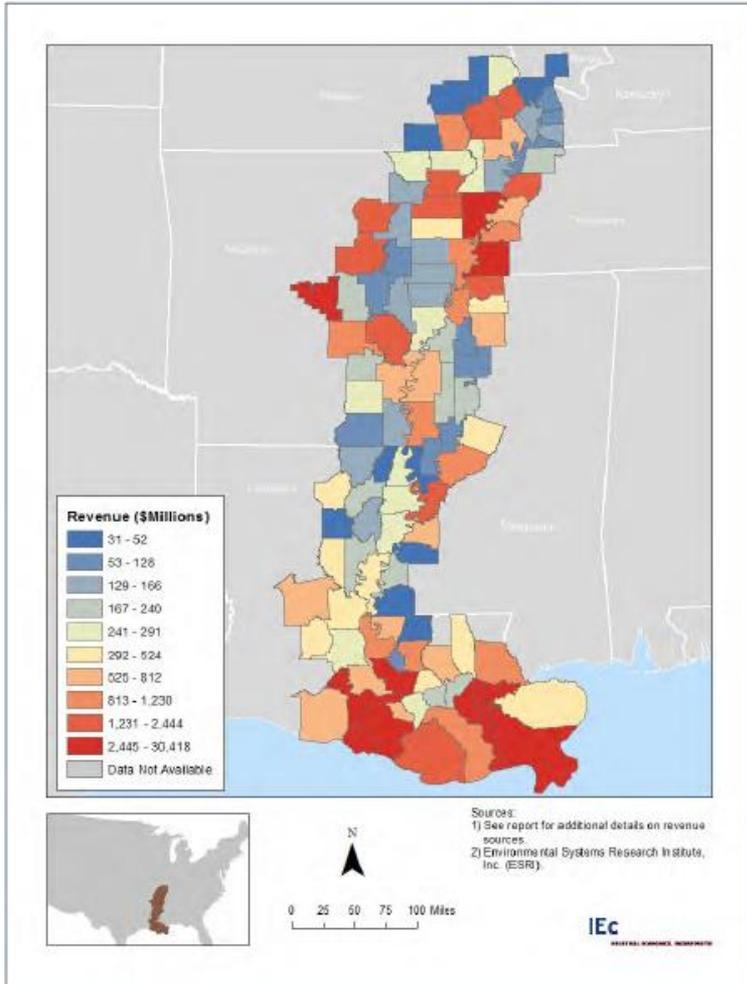
- Manufacturing
- Tourism
- Agri/Aquaculture
- Outdoor Recreation
- Mineral Resources
- Navigation
- Harvest and Natural Resources
- Energy
- Water Supply
- Ecosystem

Table. Revenue and Employment in the Lower Mississippi Region

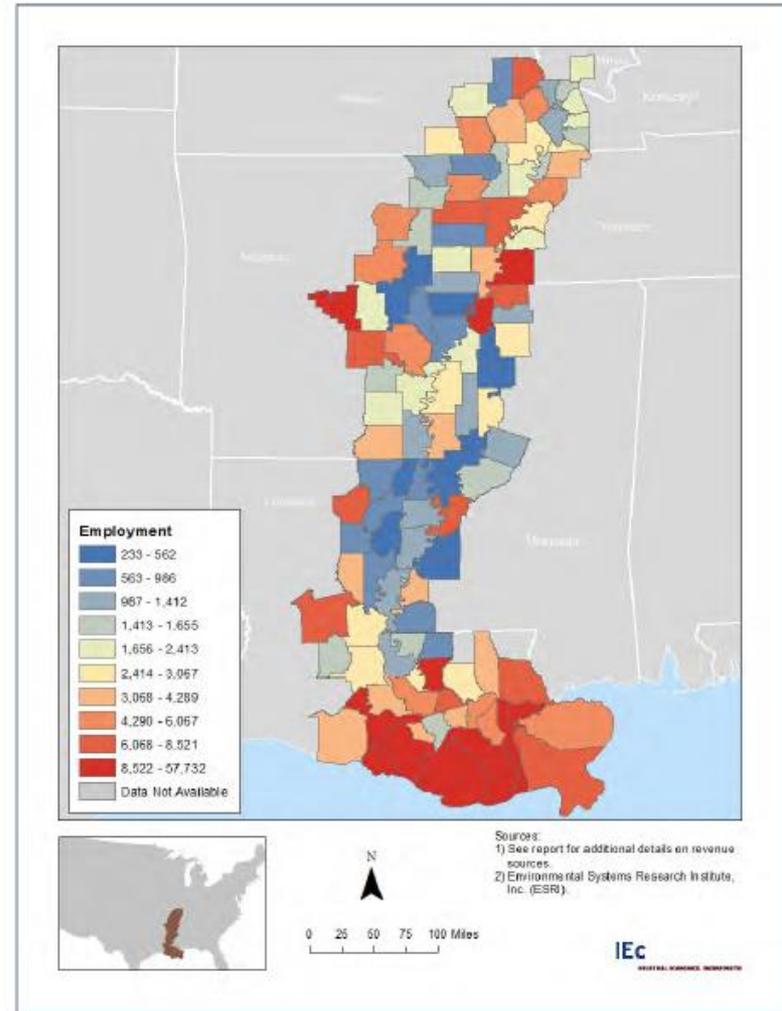
Sector	Revenues		Employment	
	\$ Million	Percentage	# People	Percentage
Harvest of Natural Resources	559	0.4%	13,726	2.3%
Outdoor Recreation	1,335	0.9%	54,476	9.3%
Tourism	15,501	10.2%	190,395	32.5%
Water Supply	385	0.3%	601	0.1%
Agriculture and Aquaculture	8,737	5.8	56,102	9.6%
Mineral Resources	7,816	5.2%	41,443	7.1%
Energy	6,758	4.5%	2,730	0.5%
Navigation	4,219	2.8%	18,764	3.2%
Manufacturing	106,394	70.1%	207,186	35.4%
Ecosystem Services Non-Market	Unquantified		Unquantified	
Total LMR:	151,703	100%	585,423	100%

ECONOMIC IMPACT OF LOWER MISSISSIPPI RIVER REGION

REVENUES (\$MILLIONS) FROM ALL RIVER-RELATED SECTORS IN THE LMR CORRIDOR, 2011

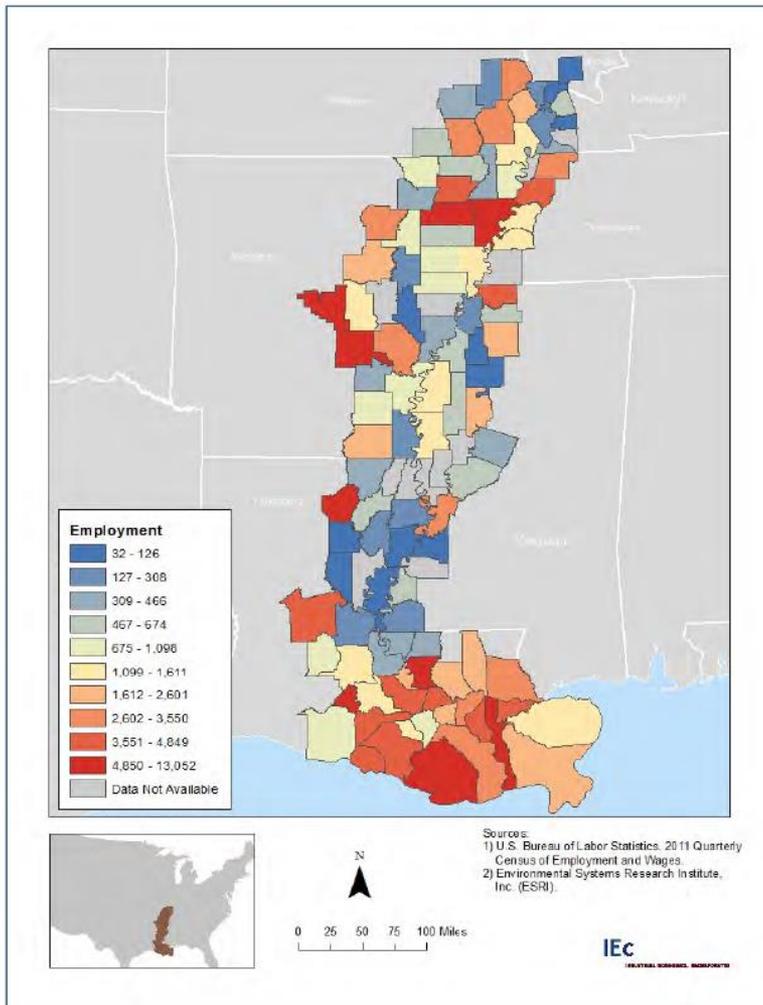


EMPLOYMENT IN ALL RIVER-RELATED SECTORS IN THE LMR CORRIDOR, 2011



MANUFACTURING

MANUFACTURING EMPLOYMENT IN THE LMR CORRIDOR, 2011



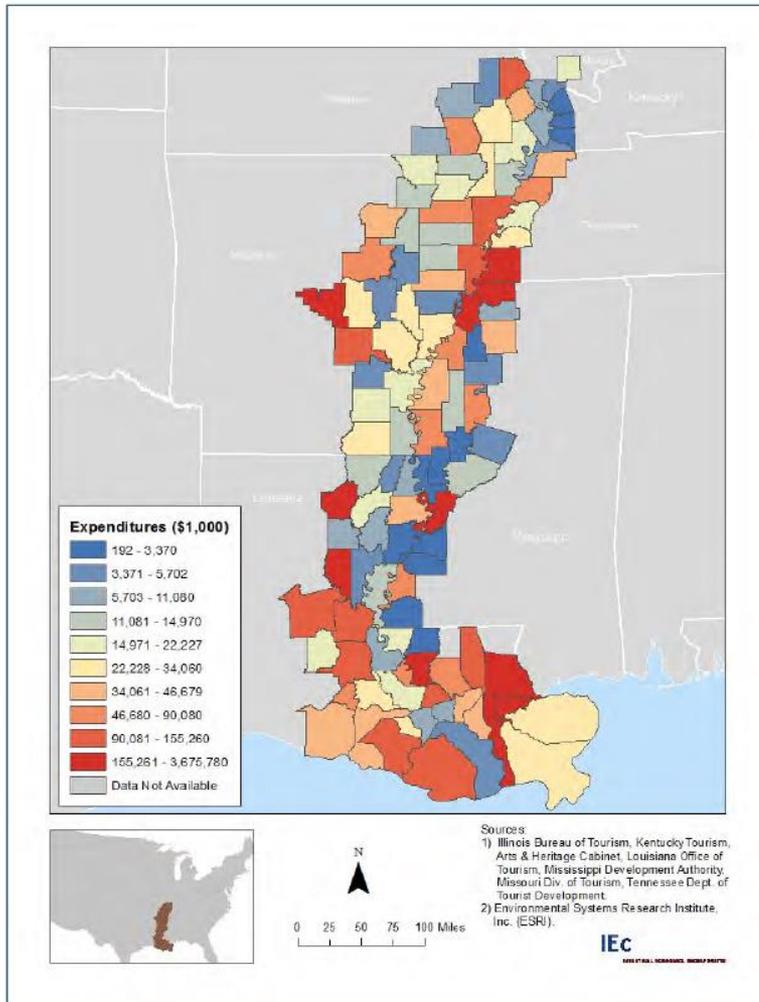
REVENUE (\$1,000S IN 2011), EMPLOYMENT AND NUMBER OF ESTABLISHMENTS IN THE LMR CORRIDOR BY MANUFACTURING SUB-SECTOR

NAICS CODE	INDUSTRIAL CATEGORY	REVENUES (\$1,000)	EMPLOYMENT	ESTAB.
311	Food manufacturing	3,294,497	23,256	559
312	Beverage and tobacco product manufacturing	Not Available	1,607	87
313	Textile Mills	Not Available	157	16
314	Textile Product Mills	Not Available	712	142
315	Apparel Manufacturing	Not Available	233	64
316	Leather and Allied Product Manufacturing	Not Available	Not Available	18
321	Wood product manufacturing	290,780	5,723	348
322	Paper manufacturing	Not Available	7,854	121
323	Printing and related support activities	Not Available	6,354	543
324	Petroleum and coal products manufacturing	Not Available	4,168	111
325	Chemical manufacturing	8,671,613	22,523	460
326	Plastics and rubber products manufacturing	693,750	6,673	220
327	Nonmetallic mineral product manufacturing	137,768	5,070	374
331	Primary metal manufacturing	Not Available	4,499	115
332	Fabricated metal product manufacturing	3,276,945	23,046	1,105
333	Machinery manufacturing	199,630	22,548	600
334	Computer and electronic product manufacturing	Not Available	3,478	149
335	Electrical equipment, appliance, and component manufacturing	Not Available	1,948	108
336	Transportation equipment manufacturing	Not Available	16,476	327
337	Furniture and related product manufacturing	Not Available	1,598	291
339	Miscellaneous manufacturing	Not Available	10,723	500
31-33	All Manufacturing	106,394,419	207,186	6,220

Note: Totals do not sum as the Census excludes some data at the three-digit NAICS level for privacy reasons, but includes it on the two-digit level.
 Sources: U.S. Census Bureau, 2007 Economic Census; U.S. Bureau of Labor Statistics, 2011 Quarterly Census of Employment and Wages.

TOURISM

TOURISM EXPENDITURES (\$1,000S) IN THE LMR CORRIDOR, 2011



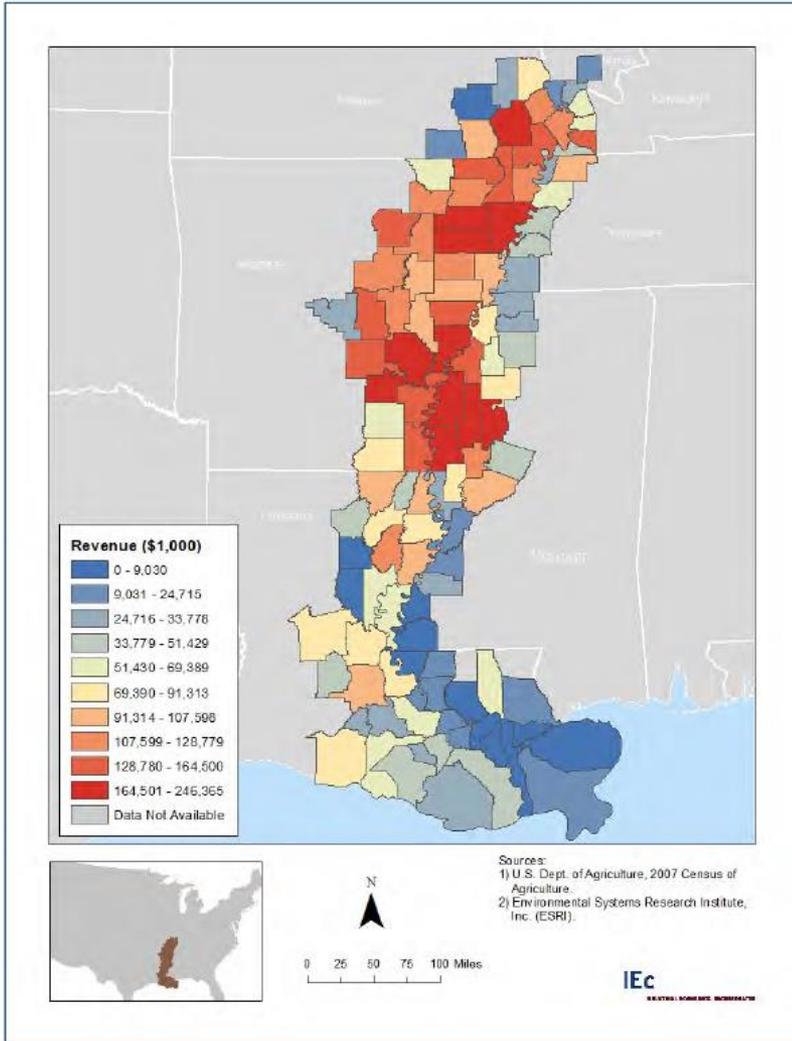
TOURISM AND TRAVEL EXPENDITURES (\$1,000S) AND EMPLOYMENT IN THE LMR CORRIDOR, 2011

STATE	EXPENDITURES		EMPLOYMENT	
	\$1,000	PERCENTAGE	# OF PEOPLE	PERCENTAGE
Kentucky	\$8,669	>1%	3,964	2%
Illinois	\$27,594	>1%	130	>1%
Missouri	\$377,642	2%	10,026	5%
Mississippi	\$1,604,326	10%	23,759	12%
Arkansas	\$2,436,842	16%	22,876	12%
Tennessee	\$3,205,080	21%	48,490	25%
Louisiana	\$7,840,440	51%	81,150	43%
LMR Corridor	\$15,500,593		190,395	

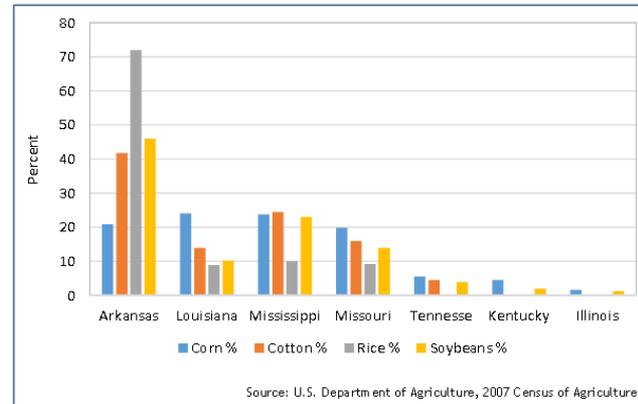
Sources: Arkansas Department of Parks and Tourism, Illinois Bureau of Tourism, Kentucky Tourism, Arts & Heritage Cabinet, Louisiana Office of Tourism, Mississippi Development Authority, and Missouri Division of Tourism.

AGRICULTURE

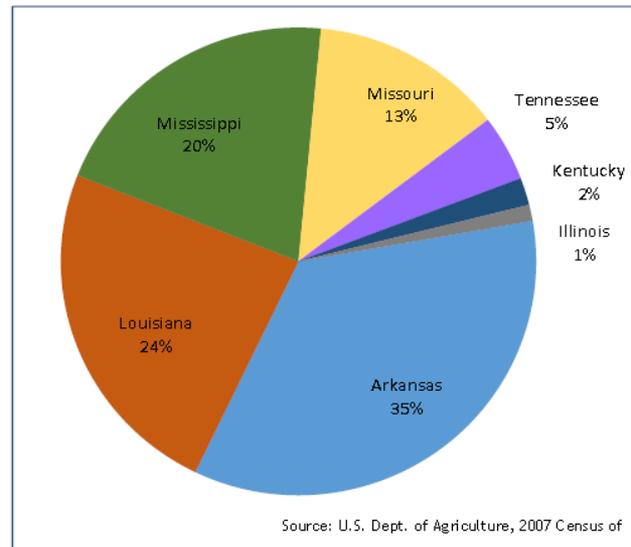
AGRICULTURAL REVENUES (\$1,000 IN 2011) IN THE LMR CORRIDOR



STATE PROPORTIONS OF TOTAL LMR CORRIDOR REVENUES BY CROP, 2007

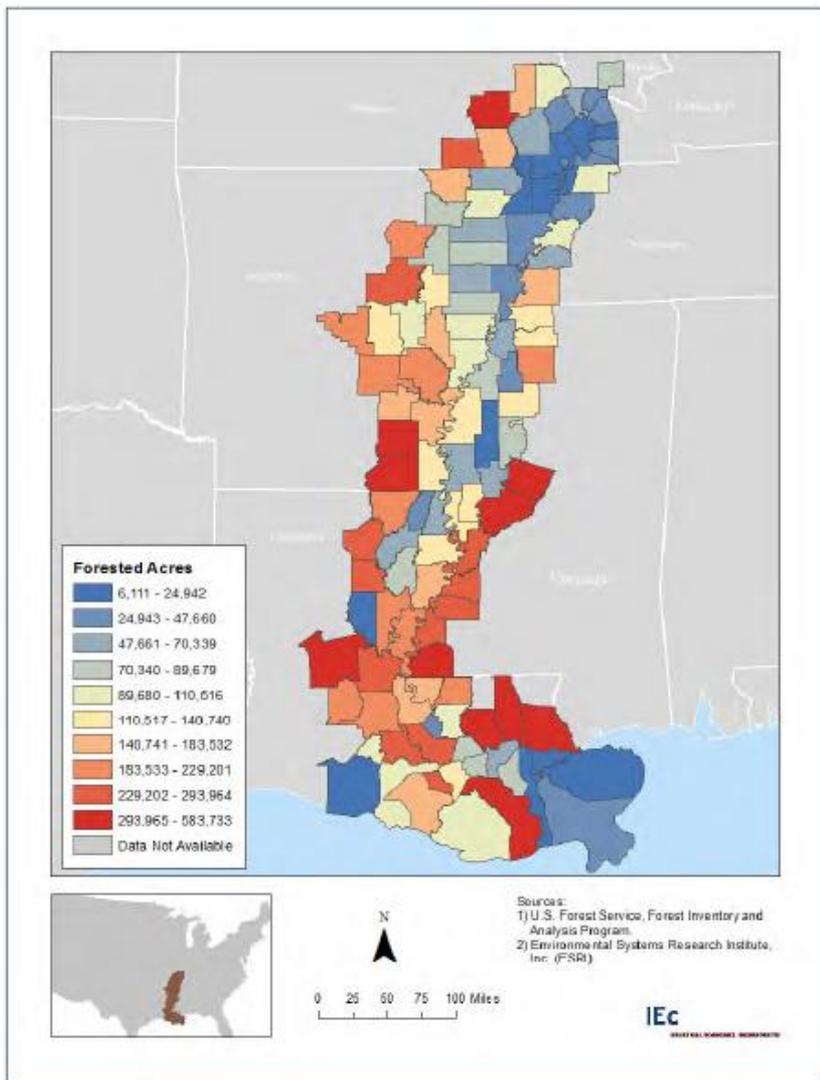


SHARE OF FARMLAND IN THE LMR CORRIDOR BY STATE, 2007

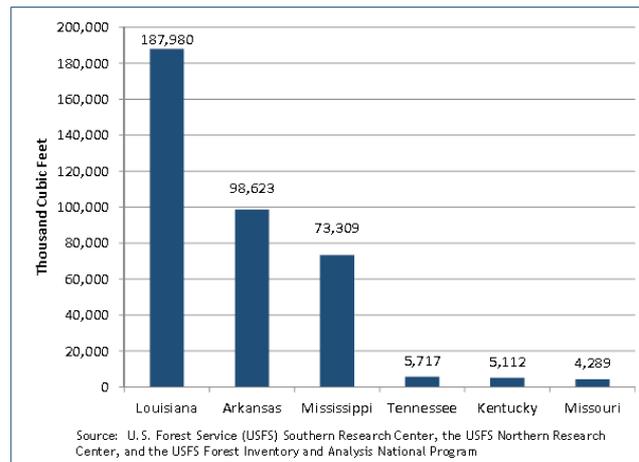


HARVESTED NATURAL RESOURCES

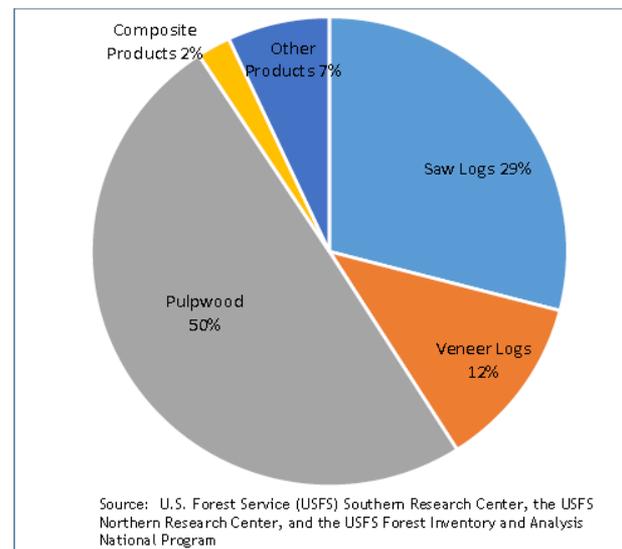
FORESTED LANDS IN THE LMR CORRIDOR, 2011



TIMBER HARVEST (THOUSAND CUBIC FEET) IN THE LMR CORRIDOR, 2011

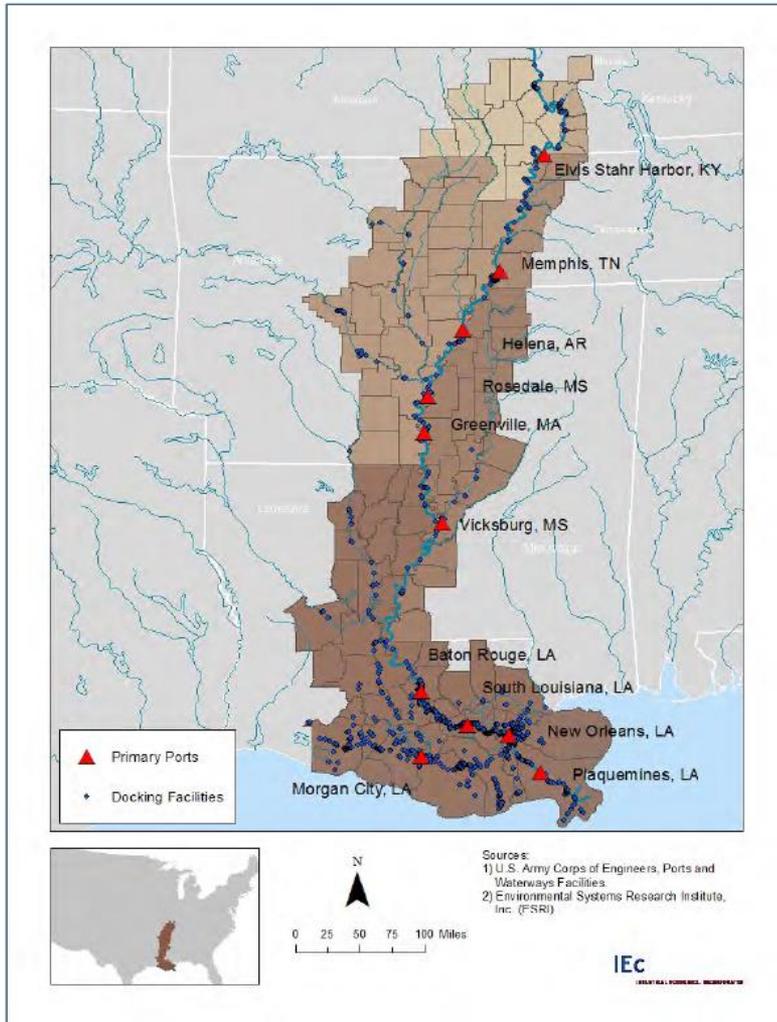


COMPOSITION OF TIMBER HARVEST PRODUCTS IN THE LMR CORRIDOR, 2011

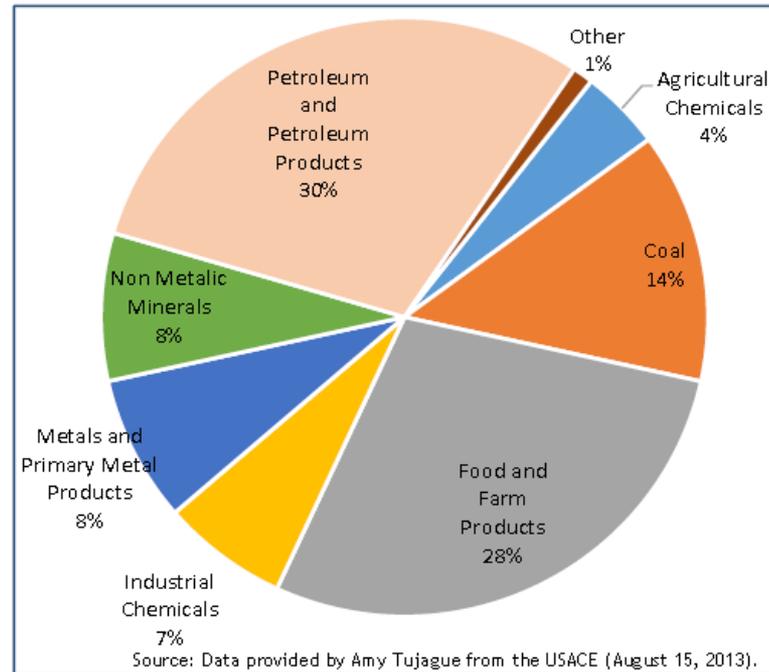


NAVIGATION

PRIMARY PORTS AND DOCKING FACILITIES IN THE LMR CORRIDOR, 2013

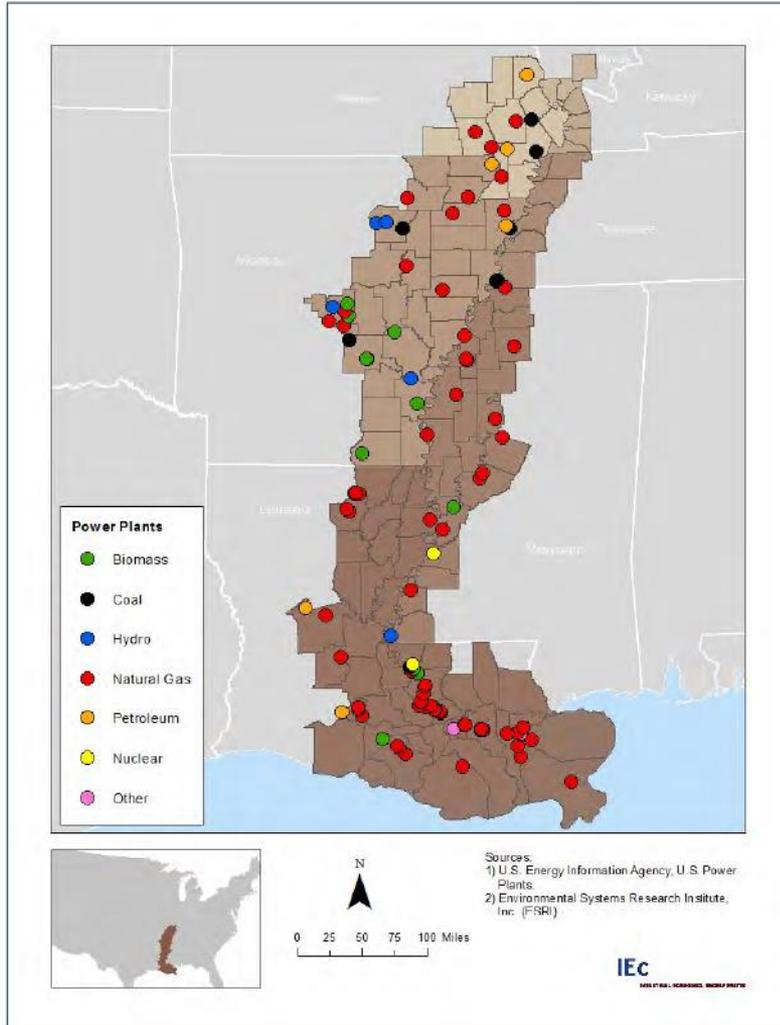


COMPOSITION OF CARGO VOLUME TRANSPORTED ON WATERWAYS IN THE LMR CORRIDOR, 2011



ENERGY

POWER GENERATING STATIONS BY FUEL TYPE IN THE LMR CORRIDOR, 2013



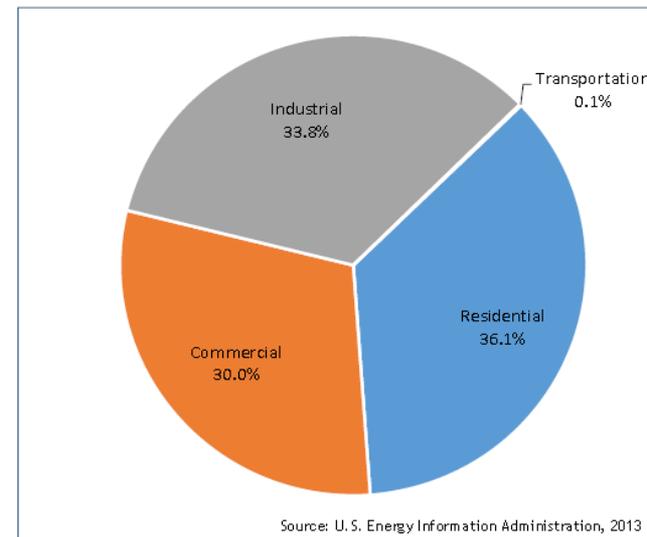
ANNUAL GENERATION (THOUSAND MWH) AND REVENUES (\$MILLIONS) IN THE LMR CORRIDOR, 2013

STATE	ANNUAL POWER GENERATION (1,000 MWH)	REVENUES (\$MILLIONS) ¹
Arkansas	27,136	1,487
Illinois	0	0
Kentucky	0	0
Louisiana	46,283	2,975
Mississippi	10,525	1,002
Missouri	12,633	803
Tennessee	4,082	491
LMR Corridor	100,659	6,758

Note: 1-Revenues are in \$2011.

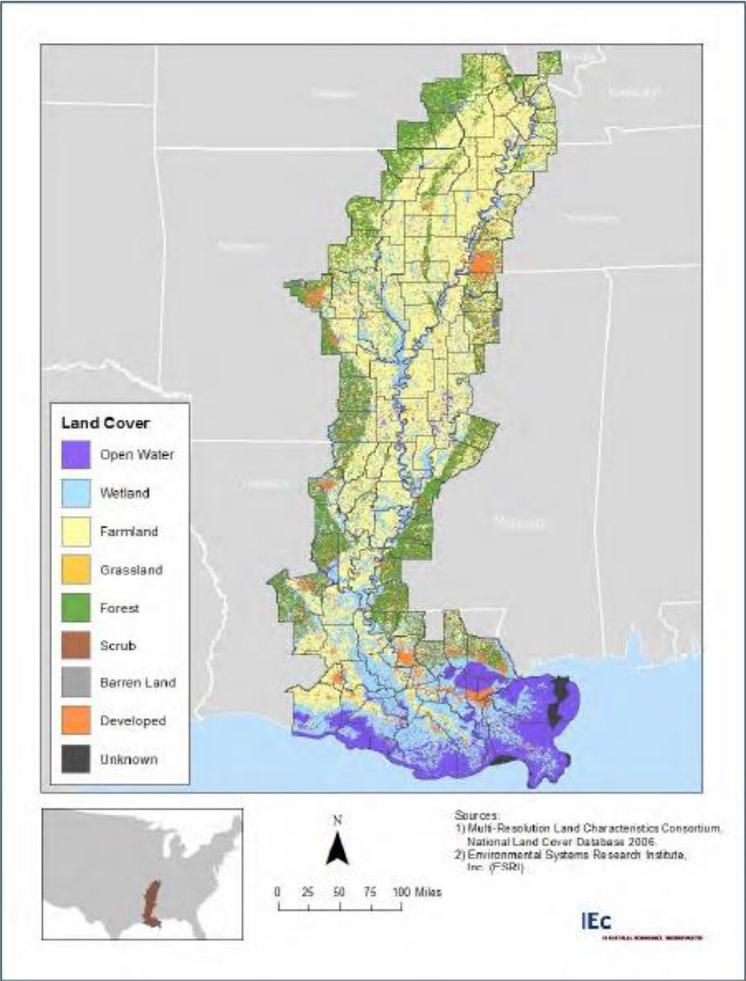
Sources U.S. Energy Information Agency, Form EIA-923: Monthly Generation and Fuel Consumption Time Series File, 2012 Early Release and Revenue from Retail Sales of Electricity by State by Provider, 1990-2011.

ENERGY CONSUMPTION BY SECTOR IN LMR STATES, 2012

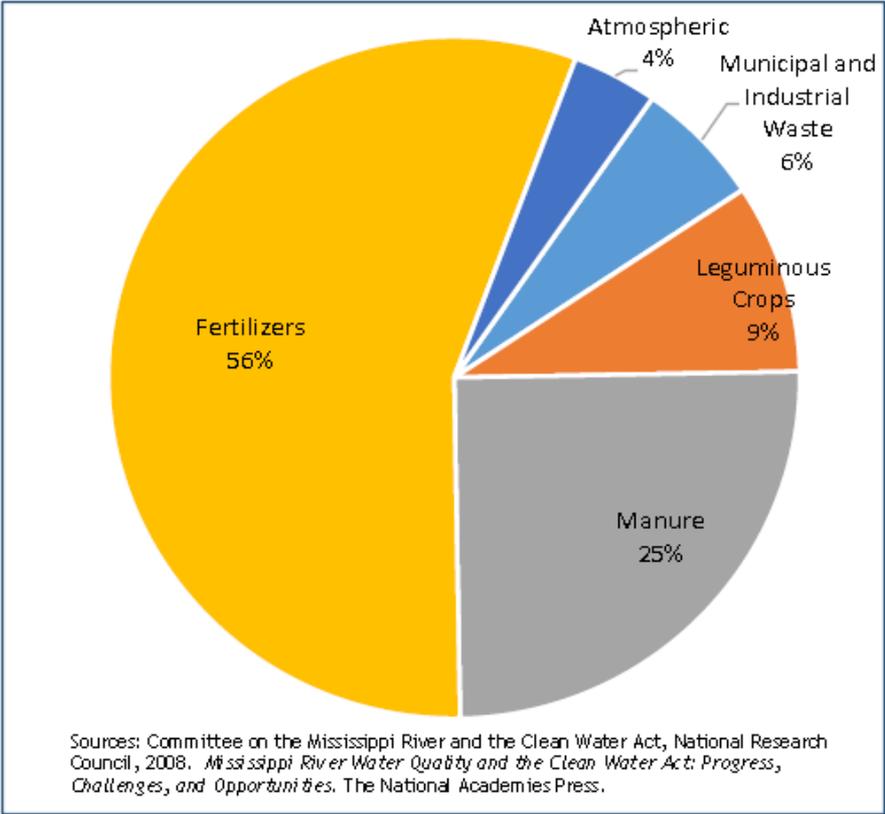


ENVIRONMENTAL IMPACT OF LOWER MISSISSIPPI RIVER REGION

EXHIBIT 1-5. LAND COVER OF THE LMR CORRIDOR



SOURCES OF NITROGEN IN MISSISSIPPI RIVER



4 Lower Mississippi Economic Conservation Committee, The Economic Profile of the Lower Mississippi River (Feb 2014), available at http://www.lmrcc.org/wp-content/uploads/2014/02/LMR_Economic_Profile_February2014.pdf

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