FEDERAL RESERVE BANK OF ST. LOUIS

1989 ANNUAL REPORT



The River Cities of the Eighth District

Yesterday & Today

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MAR 1 6 1990

Nearly all forms of human endeavor, especially those involving economic transactions, use transportation services. Transportation eases communication and links urban population centers with rural communities. It encourages manufacturing by permitting firms to locate and produce in regions where they can minimize their production costs. What's more, it allows firms to specialize, producing final goods for sale or intermediate goods that can be finished elsewhere.

An area with a comparative advantage in transportation services will attract industries that are highly dependent on trade. In addition, a well-developed transportation infrastructure will invite firms to specialize in distribution services. Although St. Louis, Memphis, Louisville and Little Rock developed their own diverse economic, social and political cultures, they share a common thread that weaves the past to the present: an inherent advantage in providing transportation services.

The Federal Reserve Bank of St. Louis, one of 12 regional Reserve Banks in the United States, serves the Eighth Federal Reserve District. The Eighth District comprises the state of Arkansas and parts of Illinois, Indiana, Kentucky, Mississippi, Missouri and Tennessee. In addition to the head office in St. Louis, there are three branch offices located in Little Rock, Louisville and Memphis.

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On the cover: The confluence of the Ohio and Mississippi rivers.

Inside covers: St. Louis riverfront, circa 1875

President's Message

he emergence of a city is rarely a happenstance. It is no accident that the four major cities of the Eighth Federal Reserve District—St. Louis, Memphis, Louisville, and Little Rock—owe their existence and much of their development to the rivers which these cities adjoin. Local histories are full of colorful tales of the harnessing of these Midwestern rivers, as well as the changing role they played in the region's economic health.

It would be difficult to overstate the historical importance of the Mississippi, Ohio and Arkansas rivers to the cities of this District. The men and women who settled the American frontier did so by successfully navigating the waterways that joined

east and west. Initially settled as trading posts for fur trappers and others, these growing river cities provided transportation and communication links for the young nation as the population spread westward. The river provided the least expensive and, in the early years, the only mode of transportation for people and goods. This cheap and accessible transportation spurred the industrialization of the Midwest, as merchants began to process and manufacture goods from the primary products that flowed through the cities' ports.

Over the years, the rivers have faced fierce competition from railways, highways and airlines for a share of transportation services and have probably lost more battles than they have won. Yet river transportation today is still vital to many industries and is the primary carrier of crude oil and petroleum products, coal, grains, chemicals, lumber and many bulky manufactured goods. The role of the rivers in particular and transportation in general in shaping the District economies has varied from city to city, and today both the relative importance and composition of transportation services serve to differentiate these economies from one another.

I want to note two important additions to our official staff at the Bank in 1989: Dennis W. Blase, who was promoted to vice president in our Banking Supervision and Regulation Division, and Michael D. Renfro, who joined the Bank as general auditor.

In addition, I would like to express my personal gratitude to Robert L. Virgil for his seven years of thoughtful leadership on the board of directors, two of them as chairman, and to two other retiring directors who have served us so capably: David W. Kemper II, St. Louis; and Thomas A. Alvey, Louisville. Finally, my sincere thanks go to Donald N. Brandin, who completed his service as our Federal Advisory Council Member at the end of the year.



Robert L. Virgil (left), chairman of the board, and Thomas C. Melzer, president and chief executive officer.

Thomas C. Melzer

President and Chief Executive Officer

The Early Years

he vast network of Midwestern rivers eased the settlement of the United States west of the Appalachian Mountains and altered the pace of migration and economic development. The rivers, therefore, were catalysts to development, though they did not create the underlying motivation for expansion. The Mississippi Basin, stretching from the headwaters of the Mississippi River in Minnesota to the Gulf of Mexico and from the Allegheny to the Rocky Mountains, encompasses some 1.2 million square miles, second in size only to the Amazon Basin. The discovery of the valley's rich, fertile farmland and its abundant natural resources led to continuing struggles for control of the Mississippi and its tributaries by the British, French and Spanish. Known as Louisiana, the territory became part of the United States in 1803, when America purchased it from France for \$15 million, or approximately four cents an acre. The purchase increased the U.S. land mass by 140 percent. Permanent settlements had been established in St. Louis and Louisville before the Louisiana Purchase; Memphis and Little Rock were settled shortly thereafter, in 1819 and 1821, respectively.

In 1673, two Frenchmen, Louis Joliet and Jacques Marquette, made the first recorded journey down the Mississippi, getting as far as the mouth of the Arkansas River before turning back. Their journey prompted the Algonquian tribes residing east of the river to name the area "Missouri," meaning "people of the wooden canoes." Almost a century later, in 1764, French fur trader Pierre Laclede founded St. Louis, approximately 10 miles downstream from the confluence of the Mississippi and Missouri rivers. St. Louis effectively divided the Mississippi River into upper and lower sections, and its central location in the heart of the Mississippi Valley led to its becoming the commercial center of the Midwest through the Civil War and, some would argue, through the rest of the century.

As with the Mississippi, the Ohio River was first explored by the French, who named her "La Belle Riviere" (the beautiful river). The Ohio flows southwesterly from Pittsburgh to Cairo, Illinois, where it joins the Mississippi. It took nearly 100 years—till 1773—for the first permanent settlement to be attempted at the Falls of the Ohio, later renamed Louisville as a gesture of gratitude to King Louis XVI for French assistance during the American Revolution. Though this first settlement didn't survive, another, five years later, did. In 1778, George Rogers Clark, together with 150 volunteer soldiers and approximately 20 families, made the journey from Pennsylvania to the falls to establish a military base before beginning a campaign to defend American interests in the Northwest.



Geography played a central role in Louisville's establishment, as the American population began to move west of the Appalachians. Three miles of rapids (or falls) on the Ohio River forced passengers to disembark and cargo to be unloaded at the impass, ported around the rapids, and then reloaded onto boats waiting on the other side. This business of "portage" supported the establishment of the city and, as river traffic increased, encouraged related industries such as warehousing and boat repair to develop.

The initial settlement of Memphis was determined by military as well as geographic concerns. Memphis is located on the southernmost of four bluffs, called the Chickasaw Bluffs, one of the few areas on the lower Mississippi where safety from flooding is ensured and movement of goods and people can be monitored. Located near the confluence of the Mississippi and Wolf rivers, Memphis, like St. Louis and Louisville, was settled at a narrow point on the river, which would later ease the building of bridges. The Spanish established a fort at the bluff in 1795 in an attempt to secure a river route to St. Louis and stave off threats from hostile Indians and American explorers. The Spanish abandoned the bluff in 1797 and, over the next 22 years, there was little activity in the area. The American army established a small frontier post and a few traders settled there, but conditions were hard and residents frequently died of fever. Significant settlement in the area surrounding the bluff did not occur until the Chickasaw Indians ceded the northern portion of their lands in 1818, opening up all of western Tennessee to American settlement.

As with St. Louis and Louisville, almost a century passed between the founding and settling of Little Rock. Early explorers on the Arkansas River had noted a moss-grown rock protruding from the south bank of the river approximately 150 miles north of Arkansas Post, which had been established in 1686. This rock marked the transition from a massive alluvial plain to rough highlands. In 1722, explorer Bernard de la Harpe, on a journey from New Orleans to extend French trade with the Indians, named this landmark "Little Rock," in contrast to the "Big Rock" or huge bluff on the river's north bank. La Harpe noted one feature at the rock that was crucial to the establishment of Little Rock as a commercial center in later years: the possibility of fording the river at that point, an achievement rarely possible at points further south. In the ensuing years, a number of white settlers laid claim to the territory at Little Rock, but a permanent settlement was not negotiated until 1821.

deSoto discovers the Mississippi River, giving Spain a claim to the region



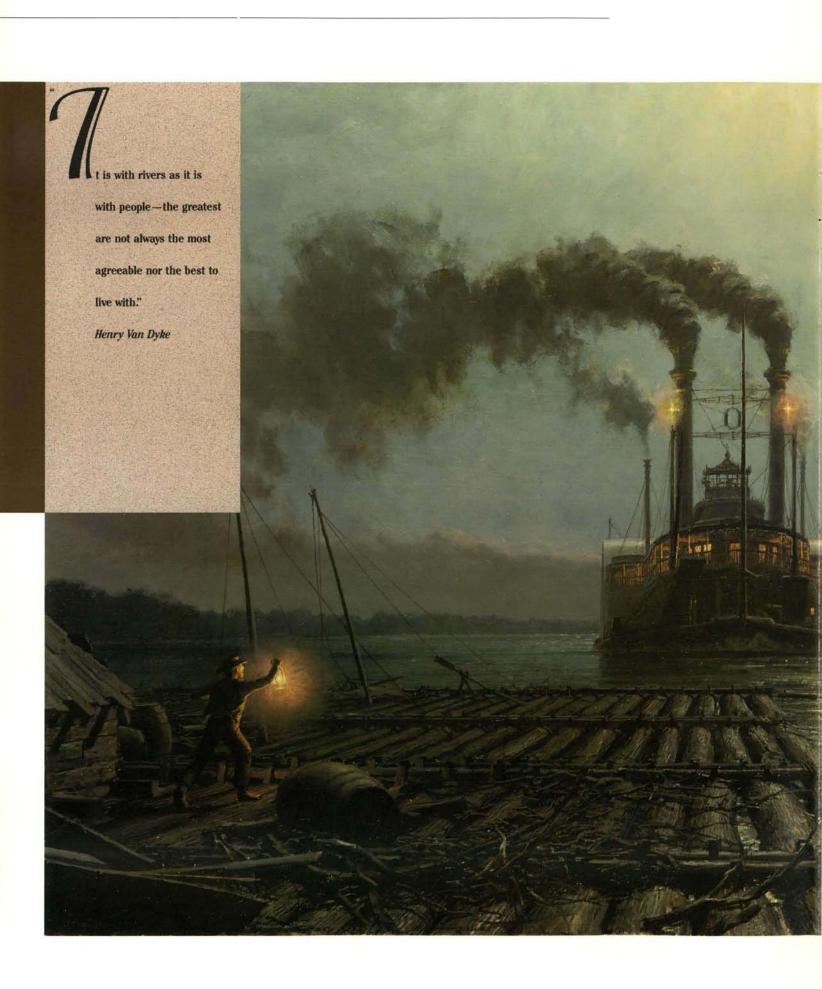
1673 Marquette and Joliet descend the Mississippi, stopping at what would later become St. Louis and Memphis

1705
First recorded carriage of cargo on
Mississippi River:
15,000 bear and deer
hides

1722 French explorer Bernard de la Harpe discovers the "Little Rock" while exploring the Arkansas River

1773 First permanent settlement attempted at Louisville

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Primitive River Transportation



n the early years, the dugout canoe or "pirogue" was the only practical way to transport people or goods. Transporting significant quantities of goods by pirogue, however, was difficult, and once settlements were established, local traders began building newer, larger types of boats. This second generation of river-going vessels were huge, flat-bottomed and box-like crafts, variously called "flatboats," "Kentucky flats" or "broadhorns." Because of their crude and often flimsy design, flatboats could be used only for downstream travel and were broken up into timber upon reaching their destination. In 1802, a flatboat trip from St. Louis to New Orleans took 25 to 30 days. Despite the advances made in inland travel, flatboats today are still the vessel of choice for moving many bulky goods, though they are more commonly known as barges.

Keelboats followed flatboats as the primary movers of people and goods at the start of the 19th century. Keelboats were shallow, sturdy freight boats made of heavy timber, like oak or pine, built to the same dimensions as flatboats, but with better navigability and built-in cabins for shelter. The hull or keel facilitated sailing into the wind and made two-way trade possible, as keelboats could be propelled upstream by iron-tipped poles or pulled by ropes from men on shore. The keelboat initiated the settlement of the lower Mississippi Valley, bringing many early settlers down the Ohio, Tennessee and Mississippi rivers to Arkansas.

The Steamboat Era

espite the tremendous gains in population and commerce in the first third of the 19th century, it was Robert Fulton's invention of the steamboat that established the river as the basis for the prosperity of the four cities. Steamboats could travel faster than flatboats or keelboats and could carry more cargo as well. In addition, improvements in design allowed these crafts to ride higher in the water, which expanded their ability to move upstream in shallow water. This was especially important to Memphis, Louisville and Little Rock, where geographic impediments such as rapids frequently caused delays in trade.

Captain Jacob Yoder commandeers the first flatboat down the Ohio and Mississippi rivers to New Orleans



1802 Flatboat trip from St. Louis to New Orleans takes 25-30 days

1803 The Louisiana Purchase

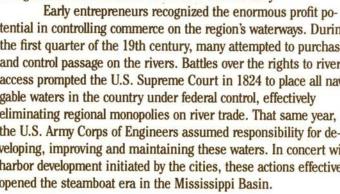
1811 The "New Orleans" becomes the first steamboat to travel down the Mississippi to New Orleans; New Madrid Earthquake

1812 War of 1812

The first steamboat to traverse the Ohio and Mississippi rivers was christened the "New Orleans." She left Pittsburgh for New Orleans in October 1811, arriving in Louisville in a record eight days. The rest of her journey was not so easy, as low water at the falls necessitated a three-month stopover in Louisville. She was also slowed by the New Madrid earthquake in mid-December, a tremor so severe it temporarily reversed the Mississippi River's current. The "New Orleans" completed her journey in early January and, from then on, limited service from her namesake city to Natchez. The "Zebulon M. Pike" was the first steamboat to ascend the river beyond the mouth of the Ohio, arriving in St. Louis from New Orleans on August 9, 1817, in one-fifth the usual time.

The development of the steamboat was critical to the growth of Little Rock, indeed to all of Arkansas. Upstream travel in Arkansas was particularly difficult because of snags and sandbars and the backbreaking work of hauling keelboats by towrope. Tales of river pirates and hungry panthers in the dense woods and swamps further discouraged immigration. The relative luxury and speed of steamboat travel, however, encouraged planters from Southern states to settle along Arkansas' rivers, paving the way for an agricultural and natural-resource-based economy.

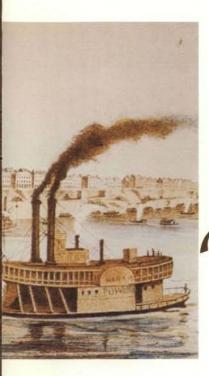
Early entrepreneurs recognized the enormous profit potential in controlling commerce on the region's waterways. During the first quarter of the 19th century, many attempted to purchase and control passage on the rivers. Battles over the rights to river access prompted the U.S. Supreme Court in 1824 to place all navigable waters in the country under federal control, effectively eliminating regional monopolies on river trade. That same year, the U.S. Army Corps of Engineers assumed responsibility for developing, improving and maintaining these waters. In concert with harbor development initiated by the cities, these actions effectively opened the steamboat era in the Mississippi Basin.



he golden era of the steamboat lasted from 1825 to the start of the Civil War. Powerful, luxurious vessels with colorful names such as "Belle of the Bends" and "Chickasaw Princess" inspired the loyalty of merchants and settlers alike, frequently paying for themselves within a year. The steamboats of the 1830s took 12 to 14 days to make the trip from New Orleans to St. Louis, depending on the river's stage. The same trip by keelboat took 90 to 100 days. This dramatic decrease in travel time made it cost-effective to ship agricultural produce for the first time.

The steamboat propelled St. Louis into becoming a major wholesale distribution center for dry goods such as textiles. Retailers to the north and west of Missouri found it advantageous to





purchase goods in St. Louis instead of Eastern ports: insurance costs were lower, buying expeditions were shorter and delivery times were cut.

In 1831, the Portland Canal was completed in Louisville, allowing ships to bypass the falls, thus ending much of the city's portage business. The canal opened up the Ohio River, however, which expanded steamboat traffic through Louisville. Louisville thus remained the nation's largest market center for tobacco and began to export wood products from its abundant timber resources.

emphis was the last of the four cities to experience the steamboat boom, launching its first voyage to New Orleans in 1834. The development of Memphis, which lagged behind that of the other cities, picked up during the steamboat era, with riverfront activity increasing to 2,300 arrivals and departures just before the Civil War. The processing of cotton and hardwood together with agricultural commodities formed the basis of the Memphis economy in the first half of the century. As the volume of shipping accelerated in the 1850s, the population of Memphis increased more than fivefold.

Despite frequent improvements in engineering and navigation technology, the life of a steamboat built for use on the Mississippi in 1850 averaged five years. Though the steamboat business could yield tidy profits, it could also lead to substantial losses, both financial and human. Snags and sandbars were continuous problems, as was the danger of fire, leading many doomsayers to refer to steamboats as "fancy fire traps." Much credence was lent to that label when the "Great Fire of 1849" destroyed 15 business blocks of downtown St. Louis. The fire started on the steamboat "White Cloud" and spread to 23 other steamers before engulfing huge piles of freight on the levee and the buildings nearby. This area, formerly the heart of the St. Louis commercial district, is today a national park and the site of the Gateway Arch.

More than 4,000 people were killed or injured in steamboat disasters from 1810 to 1850. An 1848 statement of what became of 684 steamboats built for use on the Mississippi revealed the following: worn out in service, 344; sunk, 238; burned, 68; lost in collision or explosion, 34.



1817
The "Zebulon M.
Pike" arrives in
St. Louis from New
Orleans, the first
steamboat to ascend
river beyond the
mouth of the Ohio

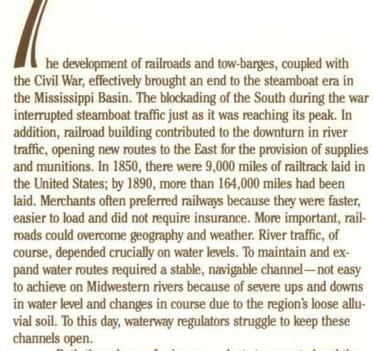
1819 Memphis established

1822
The "Eagle" arrives in Little Rock, the first steamboat to reach the city via the Arkansas River

1824
Supreme Court establishes federal control of navigable waters in the U.S., effectively opening the steamboat era on the Mississippi River

1831 Louisville's Portland Canal completed





Both the volume of primary products transported and the dependence on railways increased dramatically after the Civil War. Of the 55,427 bales of cotton received in St. Louis in 1866, for example, almost 97 percent were transported by water; just 14 years later, 496,570 bales of cotton were delivered, with 94 percent arriving by rail. St. Louis adapted smoothly to the changing environment, recognizing the need for additions to its infrastructure if it were to maintain its long-term position as a transportation crossroads. In 1874, two symbols of the city's growing industrial status were completed: the Eads Bridge and the Union Depot. The Eads Bridge was by far the more significant. This four-pier, triple-span structure featured the world's largest center span and was the world's first steel-truss bridge. The Eads Bridge made Illinois coal and cheap building sites accessible to St. Louis' growing industries and spurred the development of the Metro East area. After the flood plain was secured on the Illinois side of the river, large industries moved to the area. The diversification of transportation facilities, combined with the region's wealth of agricultural and mineral resources, spurred immigration and industrialization in St. Louis; beginning in 1850, industry became the dominant force in the economy, surpassing commerce. From 1870 to 1910, St. Louis was the nation's fourth-largest city.

Railroads did not become a major factor in Louisville's transportation network until the 1860s. During the 1850s, Louisville started laying track toward Nashville, prompted in part by the threat of a competing line from Nashville and a desire to expand its marketing base by connecting to Tennessee's rail route to Atlanta. Louisville's rail promoters were concerned about the short-

1841 St. Louis is second only to New Orleans in river traffic, with 186 steamboats discharging almost 263,000 tons of goods

1842 LaGrange and Memphis Railroad sends Memphis' first train on a 10-mile exhibition run. The company soon failed for lack of financing



1849
The "Great Fire of 1849" begins on the steamboat "White Cloud" and destroys 15 business blocks in St. Louis; the fire is followed by a cholera epidemic



"The Pacific" becomes the first railroad in Missouri

1852 As a Mississippi River port, Memphis is surpassed only by New Orleans and St. Louis





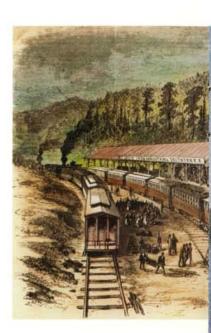


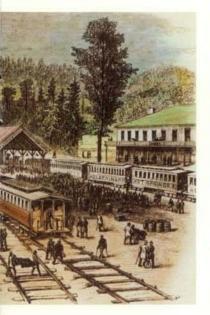
comings of the river, which periodically brought a halt to trade throughout the Ohio Valley. Low water in the summer and ice in the winter forced businessmen to operate on a two-season cycle, spring and fall, when water levels were high enough to transport goods. The Civil War shattered the South's traditional plantation economy, forcing Louisville merchants to adjust to a new environment. Shrewd merchants were able to promote themselves as "Confederates," while referring to their merchant rivals in Cincinnati as "evil Yankees." This tactic, in conjunction with new rail connections to Memphis, New Orleans, Mobile and Atlanta, enabled Louisville to expand its trade orbit southward after the war. Unfortunately for the city's shipping merchants, the building of a bridge across the Ohio to Clarksville, Indiana, and the extension of railways northward to Cincinnati lessened the need for Louisville's port services. Another blow was the completion of the first transcontinental railroad in 1869, which bypassed the Ohio and lower Mississippi River valleys, leaving only the South with which Louisville could expand its trade. These developments signaled the end of the transportation industry's preeminence in the city, as manufacturing began to dominate thereafter.

Before the 1850s, the Mississippi River provided the only commercial link between Memphis and the rest of the world. Railways in the area were virtually nonexistent, and roads were often impassable because of flooding. Several rail lines linking Memphis to South Carolina, Mississippi, Kentucky and Arkansas were completed in the late 1850s. These lines carried bales of cotton, lumber and agricultural commodities to and from Memphis as well as transporting goods produced in the city. Surprisingly, little manufacturing was established in Memphis before the Civil War, despite the abundance of raw cotton shipped through the city, a natural inducement to a textile or apparel plant. After the Civil War, Memphis, unlike St. Louis and Louisville, leaned toward wholesale distribution services instead of manufacturing.

As in St. Louis and Louisville, the importance of the river declined rapidly in Memphis in the 1880s as competition from the railroads increased. In that decade, less than one-fifth of cotton shipments went by river. Unlike most of the Mississippi Valley, railroad freight rates in Memphis were competitive with water rates because of the costs of dredging and maintaining Southern water channels. The only major impediment to rail transportation in Memphis in the latter half of the century was the lack of a bridge over the Mississippi. In 1892, the Frisco Bridge at Memphis was completed, the first bridge spanning the Mississipppi south of St. Louis and the third-longest bridge in the world at that time. In subsequent years, the improvement in freight and passenger services supported the industrial development of the city. Furniture, apparel, pharmaceutical and wood product factories were established in Memphis.

In contrast to the other three cities, Little Rock experienced its greatest increase in water transportation at a time





when railroad tracks were being laid all over the state. Bigger, faster and more luxurious steamboats compensated in many cases for poor road conditions. At the same time, railroads were being developed in Arkansas, spurred on by the state's huge timber resources: the use of rail was the only practical way to successfully harvest timber, as swamps in the eastern portion of the state made land transportation difficult. With the railroads encouraging the deforestation of the state, serious erosion problems cropped up, with silt and sand often making waterways impassable. The state's population gradually began to move away from the river towns and toward those areas with tracks. Except for Little Rock, most of Arkansas' major cities date the beginning of their growth from the building of the railroads, and few cities have prospered without a major interstate rail route. The expansion of railroads throughout the state led to a population and construction boom in Little Rock. In 1880, with 800 miles of track laid throughout the state, the city had a population of just over 13,000; by 1890, the city's population almost doubled as the amount of track jumped to 2,000 miles.

rom the Civil War through the turn of the 20th century, intense competition erupted between the rivers and the rails for a share of the transportation services pie. At times, the two peacefully coexisted, although usually more out of necessity than good will. For example, in Arkansas especially, businesses often were forced to use steamboats because flooding made railroads unusable. At other times, railroad companies engaged in unfair competitive practices to force their river competitors out of business. One such tactic, known as the "Chinese Wall," had railroads charging customers one rate for hauling freight from a river terminal to an inland destination, but a cheaper rate for hauling the same freight directly from the source. Some American railroad companies bought up terminals, canals and barge lines, often just to close them down. The Panama Canal Act of 1912 halted these "purchase and destroy" practices by prohibiting railroad ownership of competing water carriers. Combined with slow improvements in the waterways themselves, these practices took their toll on inland water transportation. Since the turn of the century, water freight operators have faced a continuing struggle against nature as well as increased competition from rail, road and air transportation.

1861 Civil War erupts



1870
The "Robert E. Lee" breaks all previous records by making the 1,210 mile run from New Orleans to St. Louis in 3 days, 18 hours, and 14 minutes



1874
The Eads Bridge and the St. Louis Union Depot are completed

1892 Memphis' Frisco Bridge completed, the first bridge across the Mississippi south of St. Louis



The Twentieth Century

he development of automotive and air transportation in the first third of this century diversified the transportation sectors of the river cities further, but lessened the importance of these cities as national linking points. If one thinks of the U.S. economy as a wheel, the river cities were the hub, and the rivers provided the earliest spokes that enabled the wheel to turn. The emergence of railroads, highways and airlines added an almost infinite number of spokes to the wheel. Partially out of necessity but also because of American ingenuity and entrepreneurship, the growth of this nation's infrastructure became as important as its natural resources in making the United States the world's largest economy in this century. The emergence of diversified transportation services opened up competition to the river cities in controlling the nation's commercial activities from cities to the north and west, like Chicago, Kansas City, Denver and Omaha and cities to the east, like Cincinnati, Pittsburgh and Indianapolis. That competition forced the river cities to turn inward, focusing on internal as well as external growth to augment economic development.

The highly diversified infrastructure of the river cities and their central location fostered the movement of key durable goods industries into the area, such as automobile, aircraft and home appliance manufacturers. All four cities benefited from the massive military production effort required during the two world wars. Louisville's wartime employment received a boost from the conversion of the Ford Motor plant to truck and jeep production as well as the U.S. Navy's purchase of a closed ship plant to produce a variety of military vessels. General Electric moved into Louisville shortly after World War II and remains the city's largest employer. The Mc-Donnell Aircraft Corporation (renamed McDonnell-Douglas in 1967) opened in St. Louis in 1939, foreshadowing the area's dependence on defense spending in the decades that followed. In the early 1940s, St. Louis' economy was dominated by both durable and nondurable goods manufacturing, especially the home appliance, processing equipment, brewing and shoe industries.

The latter two industries were so associated with St. Louis that it adopted the label: "First in booze, first in shoes, and last in the American League." Only the first of those descriptions would apply today.

The transportation sector, though less dominant, continued to flourish during the industrialization of the first half of the century, and the cities' comparative advantage in commerce was further enhanced by the passage in 1934 of the Foreign Trade Zones Act. This legislation was designed to foster

1904 St. Louis hosts the Louisiana Purchase Exposition (World's

1912 Panama Canal Act passed

1934 Foreign Trade Zones Act passed

1937 Ohio River experiences greatest flood ever



1939 McDonnell Aircraft Corporation established in St. Louis

1949 Memphis Harbor project begins

1951 General Electric's Appliance Park, the largest home appliance plant in the world, opens in Louisville

1965 Gateway Arch completed in St. Louis

1971 The Great Arkansas River Navigation Project, consisting of 13 locks and dams, completed

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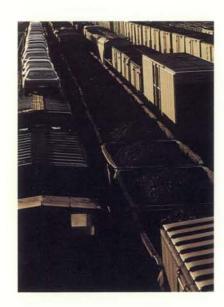
Federal Reserve Bank of St. Louis

13

international trade for industries operating near ports with easy access to domestic and international transportation. The establishment of a foreign trade zone allows manufacturers to import and process foreign goods duty-free. A duty is paid only when these goods-either finished or unfinished-are purchased in the U.S. market. Exports or reexports, however, emerge from the zone entirely duty free. The use of foreign trade zones affects the selling price of finished goods by reducing transportation and insurance costs, among other advantages, thereby encouraging exports. Little Rock, Louisville, Memphis and St. Louis all feature foreign trade zones, a development that has made international commerce an additional contributor to each city's economy. The southern part of the Mississippi, from St. Louis to New Orleans, contains no locks and therefore no restrictions on the size of barges or their loads, making barge transport from St. Louis or Memphis the most efficient method of transporting large quantities of commodities to New Orleans and on to foreign markets.

Local, state and federal officials have completed a number of construction projects throughout this century, including the building of locks and dams, in a continuing attempt to keep the rivers open for business. In addition to fighting Mother Nature and the rail, truck and airline industries, the barge industry has had to contend with the Soviet grain embargo of 1980 and a rising dollar, both of which hurt exports. The recession of 1982 led to the closing of a number of older industrial plants, especially in St. Louis, and, with fewer manufactured goods passing through the area, the importance of the transportation industry declined. Deregulation of the airline and trucking industries has had varying effects on these cities, helping the airline industry in St. Louis while hurting the trucking industry. The rail industry has had its ups and downs in this century as well.

The economic rebound in the second half of the 1980s had a positive effect on transportation. The barge and towing industry particularly benefited, both from increased demand for its services domestically and from rising exports. Even when economic conditions are good, however, river transportation can be stifled when rain and snowfall provide too little run-off to keep adequate water levels in the shipping channels. The drought of 1988 caused barge traffic on the Mississippi to stop temporarily, and low water levels this past year, in conjunction with a damaged lock and dam at Alton, Illinois, led to the biggest barge jam in the river's history. A new lock and dam system, scheduled for completion by the end of 1992, will replace the damaged one, enabling more barges to pass through at any given time. Other locks and dams above Alton, however, face similar problems. Until new and larger locks and dams can be built throughout the inland waterway system, the barge industry will be forced to operate at less than peak efficiency.









1972 Federal Express established in Memphis

1978 Airline Deregulation Act passed

1980 Soviet grain embargo

1980

Motor Carrier Act of 1908 passed, partially deregulating the trucking industry

1981

United Postal Service (UPS) locates its national air freight hub in Louisville

1985

Congress approves \$196 million to rebuild Alton Lock and Dam System, expected to be completed in 1992



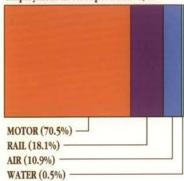
1989

Low water, ice and a damaged lock and dam at Alton, Illinois, lead to the biggest barge jam ever on the Mississippi River

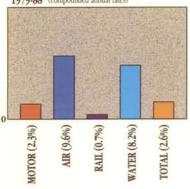
LITTLE ROCK

(1988 annual averages)
Population: 511,818
Non-agricultural employment: 236,867
Transportation employment: 10,639
Transportation share of employment: 4.5%

Employment in Transportation: 1988



Growth in Transportation Employment: 1979-88 (compounded annual rates)



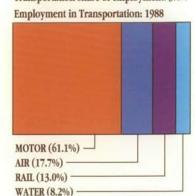
Although obviously vulnerable to domestic and international economic conditions and an infrastructure that is deteriorating from weather and age, the transportation sectors of the river cities today continue to play an important role in the region's economic health. St. Louis, Louisville, Little Rock and Memphis owe their establishment largely to water transportation, but their economies have long since diversified away from exclusive dependence on any single sector. Each city's central location and highly developed infrastructure, however, still determine to a large extent its economic performance. Little Rock is the economic, financial and distribution hub of Arkansas and, as the state capital, has a large government sector, which provides a stable source of employment. The economy is fairly diversified, with wholesale and retail trade the city's largest source of employment, accounting for almost 20 percent of total employment. The city is vigorously promoting its port as well as its complementary infrastructure to companies interested in expanding their facilities. In 1988, Little Rock employed approximately 10,700 workers in transportation.

St. Louis leads the areas in the size of its transportation workforce. Crisscrossed by four major interstate highways, the city is the home of many motor freight companies, which employed almost 24,000 workers in 1988. St. Louis is the nation's second-largest inland port, and it employs more than 3,000 workers in water transportation. The rail and air transportation sectors are also relatively large. The size of the air transportation workforce is expected to grow over the next decade because of the city's proposal to expand Lambert-St. Louis International Airport at a cost of \$1 billion.

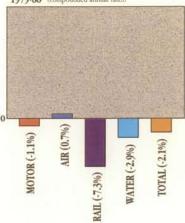
Despite a total workforce of 38,540, transportation workers represented less than 4 percent of the total St. Louis workforce in 1988, reflecting the area's increasing economic diversity, as well as its continued dependence on manufacturing. St. Louis' health, educational, business and other services have expanded rapidly in recent decades and now employ most of the area's workers.

Although Louisville has shifted away from a predominantly transportation-oriented economy, the sector still plays an important role in the area's economic health. In 1988, almost 12,000 workers, representing approximately 3 percent of the Louisville workforce, were employed in the transportation sector. The sector has grown throughout the 1980s and is likely to continue to grow because of several major transportation projects scheduled over the next few years. United Postal Service (UPS) is a major presence in Louisville. In 1981, when the company began moving its air cargo operations to the city, UPS employed 500 workers in the metropolitan area. Today, UPS employs more than 7,200 workers in Louisville, and its success is one of the driving forces behind the proposed \$250 million expansion of Standiford Field Airport. The building of two parallel runways is expected to create 6,000 construction jobs as well as 10,000 new jobs after its completion. In addition, the Army Corps of Engineers has proposed spending

ST. LOUIS (1988 annual averages) Population: 2,462,053 Non-agricultural employment: 1,139,580 Transportation employment: 38,540 Transportation share of employment: 3.4%



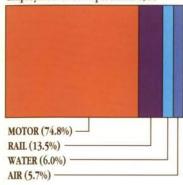
Growth in Transportation Employment: 1979-88 (compounded annual rates)



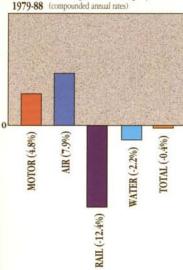
LOUISVILLE

(1988 annual averages)
Population: 969,797
Non-agricultural employment: 450,825
Transportation employment: 11,843
Transportation share of employment: 2.6%

Employment in Transportation: 1988



Growth in Transportation Employment:



\$214 million over the next decade to renovate locks and dams in the Louisville area so that current shipping delays can be shortened and demand for barge traffic can be met through the year 2050. This project has yet to receive final approval.

The region's most dynamic transportation sector belongs to Memphis. Memphis currently bills itself as "America's Distribution Center" and was recently touted by a national newsweekly as one of America's 16 boom towns, because of the important role distributional industries play in the city's economy. The four major transportation sectors (rail, truck, air and water) directly account for about 8 percent of the area's jobs.

Air transportation services have grown rapidly in Memphis. Federal Express, with its world headquarters in Memphis, is the world's largest air courier and cargo carrier and the city's largest employer. Federal Express grew rapidly in the late 1980s and recently acquired the Flying Tiger Line, a cargo carrier serving the South Pacific. The company's dramatic growth, along with the increasing presence of Northwest Airlines, has spurred a recent proposal to build a third parallel runway at Memphis International Airport. Final authorization of the \$110 million project is expected in 1991. Memphis today has a relatively small manufacturing sector and a comparatively large government sector in addition to a heavy concentration in distributional firms.

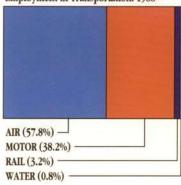
Whatever the coming decades hold for St. Louis, Louisville, Memphis and Little Rock, the rivers that have brought prosperity to these cities will undoubtedly continue to play a part. As they have tied together past and present, so too will the rivers add diversity and depth to the Eighth District's economic tapestry well into the next century.



MEMPHIS

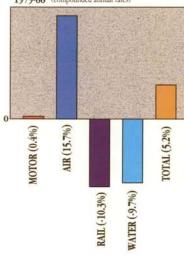
(1988 annual averages)
Population: 984,742
Non-agricultural employment: 433,383
Transportation employment: 33,418
Transportation share of employment: 7.7%

Employment in Transportation: 1988



Growth in Transportation Employment:

1979-88 (compounded annual rates)



he remainder of this report summarizes the financial status and certain operating statistics of the Federal Reserve Bank of St. Louis and its three branches. In addition, it highlights the Bank's boards of directors and the officers who will guide us through the coming year.

Statement of Condition

(thousands of dollars)

| ASSETS Gold certificate account Special Drawing Rights certificate account Coin Loans to depository institutions | \$ 370,000 291,000 29,979 52,525 | \$ 368,000 160,000 29,129 94,595 |
|--|---|---|
| Securities: Federal agency obligations U.S. government securities Total securities | $ \begin{array}{r} 200,880 \\ 6,981,979 \\ \hline \$7,182,859 \end{array} $ | 204,979 6,875,187 \$7,080,166 |
| Cash items in process of collection Bank premises (net) Other assets Interdistrict settlement account TOTAL ASSETS LIABILITIES Federal Reserve notes | $ \begin{array}{r} 386,646 \\ 22,878 \\ 1,030,018 \\ 0 \\ \hline $9,365,905 \\ \hline $7,419,660 \\ \end{array} $ | 422,413 20,918 411,898 742,106 \$9,329,225 |
| Deposits: Depository institutions Foreign Other Total deposits | 1,200,594 $4,200$ $31,352$ $$1,236,146$ | $ \begin{array}{r} 874,470 \\ 4,200 \\ \hline 7,101 \\ \hline 885,771 \end{array} $ |
| Deferred availability cash items Other liabilities Interdistrict settlement account TOTAL LIABILITIES | 359,979 86,948 140,008 9,242,741 | $ \begin{array}{r} 388,504 \\ 91,106 \\ \hline 0 \\ \hline $9,212,305 \end{array} $ |
| CAPITAL ACCOUNTS Capital paid in Surplus TOTAL CAPITAL ACCOUNTS TOTAL LIABILITIES AND CAPITAL ACCOUNTS | \$ 61,582 61,582 \$ 123,164 \$9,365,905 | \$ 58,460 58,460 \$ 116,920 \$9,329,225 |

Income and Expenses

(thousands of dollars)

| Interest on loans to depository institutions \$ 7,013 \$ 7,010 Interest on loans to depository institutions \$ 606,577 529,482 Earnings on foreign currency 29,049 8,464 Revenue from priced services 31,105 28,725 All other income 495 461 Total current income \$ 674,239 \$ 574,233 CURRENT EXPENSES Current operating expenses \$ 63,698 \$ 62,392 Less expenses reimbursed (7,052) (7,269) Current net operating expenses \$ 56,646 \$ 55,123 Cost of earnings credits 6,109 4,598 Current net expenses \$ 62,755 \$ 59,721 CURRENT NET INCOME \$ 611,484 \$ 514,512 PROFIT AND LOSS | | December 31, 1989 | | December 31, 1988 | |
|---|---|----------------------|------------------------------|----------------------|--|
| Interest on loans to depository institutions \$7,013 \$7,101 Interest on government securities 606,577 529,482 Earnings on foreign currency 29,049 8,464 Revenue from priced services 31,105 28,725 All other income 495 461 Total current income \$674,239 \$74,233 CURRENT EXPENSES Current operating expenses \$63,698 62,392 Less expenses reimbursed (7,052) (7,269) Current net operating expenses \$63,698 62,392 Current net expenses \$66,466 \$55,123 Current net expenses \$62,755 \$59,721 Current net income: PROFIT AND LOSS Additions to current net income: Profit on sales of government securities (net) \$429 \$655 Profit on sales of government securities (net) \$429 \$655 Profit on foreign exchange transactions (net) \$36,047 \$656 Deductions from current net income: Loss on foreign exchange transactions (net) \$0 \$14,305 All other additions \$1 \$7 \$7 Total additions on deductions \$1 \$1 \$1,312 Net additions or deductions \$36,046 \$(13,656) Cost of Unreimbursed Treasury Service \$(2,369) \$(1,217) Assessment by Board of Governors: Expenditures \$(2,480) \$(2,376) Federal Reserve currency costs \$(5,957) \$(5,379) NET INCOME AVAILABLE FOR DISTRIBUTION \$636,724 \$491,884 DISTRIBUTION OF NET INCOME Dividends paid \$(3,612) \$(3,495) Payments to the U.S. Treasury (interest on Federal Reserve notes) \$(629,990) \$(487,949) Transferred to surplus \$3,122 \$440 Surplus, January 1 \$58,460 \$58,020 Total deductions \$3,122 \$440 Surplus, January 1 \$58,460 \$58,020 Total deductions \$3,122 \$440 Transferred to surplus \$3,122 \$440 Transferre | CURRENT INCOME | - | | | |
| Interest on government securities 606,577 529,482 Earnings on foreign currency 29,049 8,464 Revenue from priced services 31,105 22,725 461 Total current income 495 461 Total current income \$674,239 \$574,233 \$CURRENT EXPENSES | | \$ | 7,013 | \$ | 7,101 |
| Earnings on foreign currency 29,049 8,464 Revenue from priced services 31,105 28,725 All other income 495 461 Total current income \$ 674,239 \$ 574,233 CURRENT EXPENSES Current operating expenses \$ 63,698 \$ 62,392 Less expenses reimbursed (7,052) (7,269) Current net operating expenses \$ 56,646 \$ 55,123 Cost of earnings credits 6,109 4,598 Current net expenses \$ 62,755 \$ 59,721 CURRENT NET INCOME \$ 611,484 \$ 514,512 PROFIT AND LOSS Additions to current net income: \$ 429 \$ 655 Profit on sales of government securities (net) \$ 429 \$ 655 Profit on foreign exchange transactions (net) \$ 36,047 \$ 656 Deductions from current net income: \$ 0 \$ 14,305 All other deductions \$ 0 \$ 14,305 All other deductions \$ 1 7 Total adductions \$ 1 \$ 1 Net additions or deductions \$ 36,046 | | | | | |
| Revenue from priced services 31,105 28,725 All other income 495 461 Total current income \$ 674,239 \$ 574,233 CURRENT EXPENSES S Current operating expenses \$ 63,698 \$ 62,392 Less expenses reimbursed (7,052) (7,269) Current net operating expenses \$ 56,646 \$ 55,123 Cost of earnings credits 6,109 4,598 Current net expenses \$ 62,755 \$ 59,721 CURRENT NET INCOME \$ 611,484 \$ 514,512 PROFIT AND LOSS Additions to current net income: \$ 429 \$ 655 Profit on sales of government securities (net) \$ 429 \$ 655 Profit on foreign exchange transactions (net) 3 36,613 1 All other additions \$ 36,047 \$ 656 Deductions from current net income: \$ 0 \$ 14,305 Loss on foreign exchange transactions (net) \$ 0 \$ 14,305 All other deductions \$ 1 \$ 7 Total deductions \$ 36,046 \$ (13,656) Cost of Unreimbursed | | | | | |
| All other income 495 461 Total current income \$674,239 \$574,233 CURRENT EXPENSES Current operating expenses \$63,698 \$62,392 Less expenses reimbursed (7,052) (7,269) Current net operating expenses \$56,646 \$55,123 Current net operating expenses \$56,646 \$55,123 Current net expenses \$62,755 \$59,721 Current net expenses \$62,755 \$59,721 CURRENT NET INCOME \$611,484 \$514,512 PROFIT AND LOSS Additions to current net income: Profit on sales of government securities (net) \$429 \$655 Profit on foreign exchange transactions (net) \$35,613 1 All other additions \$36,047 \$656 Deductions from current net income: Loss on foreign exchange transactions (net) \$0 \$14,305 All other deductions \$1 7 7 Total deductions \$1 \$14,312 Net additions or deductions \$36,046 \$(13,656) Cost of Unreimbursed Treasury Service \$(2,369) (1,217) Assessment by Board of Governors: Expenditures \$(2,480) \$(2,376) Federal Reserve currency costs \$(5,957) \$(5,379) NET INCOME AVAILABLE FOR DISTRIBUTION \$636,724 \$491,884 DISTRIBUTION OF NET INCOME Dividends paid \$(3,612) \$(3,495) Payments to the U.S. Treasury (interest on Federal Reserve notes) \$(629,990) (487,949) Transferred to surplus \$3,122 440 Surplus, January 1 \$58,460 \$58,020 Correct \$58,040 \$68,020 Correct \$63,040 \$68,040 \$68,040 Correct \$64,040 \$64,040 \$64,040 Correct | | | | | 28,725 |
| CURRENT EXPENSES 63,698 \$62,392 Less expenses reimbursed (7,052) (7,269) Current net operating expenses \$56,646 \$55,123 Cost of earnings credits 6,109 4,598 Current net expenses \$62,755 \$59,721 CURRENT NET INCOME \$611,484 \$514,512 PROFIT AND LOSS Additions to current net income: ** ** Profit on foreign exchange transactions (net) 35,613 1 All other additions 5 0 Total additions \$36,047 \$656 Deductions from current net income: ** 0 \$14,305 All other deductions \$0 \$14,305 \$1 \$14,305 All other deductions \$1 \$14,305 \$1 \$14,305 \$1 All other deductions \$1 \$14,305 \$1 \$14,305 \$1 \$14,305 \$1 \$14,305 \$1 \$14,305 \$1 \$14,305 \$1 \$14,305 \$1 \$14,305 \$1 \$14,305 | | | 495 | | 461 |
| Current operating expenses \$ 63,698 \$ 62,392 Less expenses reimbursed (7,052) (7,269) Current net operating expenses \$ 56,646 \$ 55,123 Cost of earnings credits 6,109 4,598 Current net expenses \$ 62,755 \$ 59,721 CURRENT NET INCOME \$ 611,484 \$ 514,512 PROFIT AND LOSS Additions to current net income: ** ** Profit on sales of government securities (net) \$ 429 \$ 655 Profit on foreign exchange transactions (net) \$ 35,613 1 All other additions \$ 36,047 \$ 656 Deductions from current net income: ** 0 \$ 14,305 All other deductions \$ 0 \$ 14,305 \$ 1 \$ 14,305 All other deductions \$ 1 \$ 14,312 \$ 1 \$ 7 Total deductions \$ 36,046 \$ (13,656) \$ (2,369) \$ (1,217) Assessment by Board of Governors: Expenditures \$ (2,480) \$ (2,376) Federal Reserve currency costs \$ (5,957) | | \$ | 674,239 | \$ | 574,233 |
| Less expenses reimbursed (7,052) (7,269) Current net operating expenses \$ 56,646 \$ 55,123 Cost of earnings credits 6,109 4,598 Current net expenses \$ 62,755 \$ 59,721 CURRENT NET INCOME \$ 611,484 \$ 514,512 PROFIT AND LOSS Additions to current net income: Profit on sales of government securities (net) \$ 429 \$ 655 Profit on foreign exchange transactions (net) 35,613 1 All other additions \$ 36,047 \$ 656 Deductions from current net income: Loss on foreign exchange transactions (net) \$ 0 \$ 14,305 All other deductions \$ 1 7 Total deductions \$ 1 \$ 14,312 Net additions or deductions \$ 36,046 \$ (13,656) Cost of Unreimbursed Treasury Service (2,369) (1,217) Assessment by Board of Governors: Expenditures \$ (2,480) \$ (2,376) Federal Reserve currency costs (5,957) (5,379) NET INCOME AVAILABLE FOR DISTRIBUTION \$ | CURRENT EXPENSES | | | | |
| Current net operating expenses \$ 56,646 \$ 55,123 Cost of earnings credits 6,109 4,598 Current net expenses \$ 62,755 \$ 59,721 CURRENT NET INCOME \$ 611,484 \$ 514,512 PROFIT AND LOSS Additions to current net income: Profit on sales of government securities (net) \$ 429 \$ 655 Profit on foreign exchange transactions (net) 35,613 1 All other additions 5 0 Total additions \$ 36,047 \$ 656 Deductions from current net income: Loss on foreign exchange transactions (net) \$ 0 \$ 14,305 All other deductions \$ 1 7 Total deductions \$ 1 7 Total deductions \$ 36,046 \$ (13,656) Cost of Unreimbursed Treasury Service (2,369) (1,217) Assessment by Board of Governors: Expenditures \$ (2,480) \$ (2,376) Federal Reserve currency costs \$ (5,957) \$ (5,379) NET INCOME AVAILABLE FOR DISTRIBUTION \$ 636,724 \$ 491,884 <td>Current operating expenses</td> <td>\$</td> <td>63,698</td> <td>\$</td> <td>62,392</td> | Current operating expenses | \$ | 63,698 | \$ | 62,392 |
| Current net operating expenses \$ 56,646 \$ 55,123 Cost of earnings credits 6,109 4,598 Current net expenses \$ 62,755 \$ 59,721 CURRENT NET INCOME \$ 611,484 \$ 514,512 PROFIT AND LOSS Additions to current net income: Profit on sales of government securities (net) \$ 429 \$ 655 Profit on foreign exchange transactions (net) 35,613 1 All other additions 5 0 Total additions \$ 36,047 \$ 656 Deductions from current net income: Loss on foreign exchange transactions (net) \$ 0 \$ 14,305 All other deductions \$ 1 7 Total deductions \$ 1 7 Total deductions \$ 36,046 \$ (13,656) Cost of Unreimbursed Treasury Service (2,369) (1,217) Assessment by Board of Governors: Expenditures \$ (2,480) \$ (2,376) Federal Reserve currency costs \$ (5,957) \$ (5,379) NET INCOME AVAILABLE FOR DISTRIBUTION \$ 636,724 \$ 491,884 <td></td> <td></td> <td>(7,052)</td> <td></td> <td>(7,269)</td> | | | (7,052) | | (7,269) |
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| Current net expenses \$ 62,755 \$ 59,721 CURRENT NET INCOME \$ 611,484 \$ 514,512 PROFIT AND LOSS Additions to current net income: Profit on sales of government securities (net) \$ 429 \$ 655 Profit on foreign exchange transactions (net) 35,613 1 All other additions 5 0 Total additions \$ 36,047 \$ 656 Deductions from current net income: Loss on foreign exchange transactions (net) \$ 0 \$ 14,305 All other deductions 1 7 Total deductions \$ 1 \$ 14,312 Net additions or deductions \$ 36,046 \$ (13,656) Cost of Unreimbursed Treasury Service (2,369) (1,217) Assessment by Board of Governors: Expenditures \$ (2,480) \$ (2,376) Federal Reserve currency costs (5,957) (5,379) NET INCOME AVAILABLE FOR DISTRIBUTION \$ 636,724 \$ 491,884 DISTRIBUTION OF NET INCOME \$ (3,612) \$ (3,495) Payments to the U.S. Treasury (interest on Federal Reser | | | 15 | | |
| CURRENT NET INCOME \$ 611,484 \$ 514,512 PROFIT AND LOSS Additions to current net income: Profit on sales of government securities (net) \$ 429 \$ 655 Profit on foreign exchange transactions (net) 35,613 1 All other additions 5 0 Total additions \$ 36,047 \$ 656 Deductions from current net income: Loss on foreign exchange transactions (net) \$ 0 \$ 14,305 All other deductions 1 7 Total deductions \$ 1 \$ 14,312 Net additions or deductions \$ 36,046 \$ (13,656) Cost of Unreimbursed Treasury Service (2,369) (1,217) Assessment by Board of Governors: Expenditures \$ (2,480) \$ (2,376) Federal Reserve currency costs (5,957) (5,379) NET INCOME AVAILABLE FOR DISTRIBUTION \$ 636,724 \$ 491,884 DISTRIBUTION OF NET INCOME Solution of Federal Reserve notes (629,990) (487,949) Payments to the U.S. Treasury (interest on Federal Reserve notes) (629,990) (487,949) | | \$ | | \$ | 59.721 |
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| All other additions 5 0 Total additions \$ 36,047 \$ 656 Deductions from current net income: \$ 0 \$ 14,305 Loss on foreign exchange transactions (net) \$ 0 \$ 14,305 All other deductions 1 7 Total deductions \$ 1 \$ 14,312 Net additions or deductions \$ 36,046 \$ (13,656) Cost of Unreimbursed Treasury Service (2,369) (1,217) Assessment by Board of Governors: Expenditures \$ (2,480) \$ (2,376) Federal Reserve currency costs \$ (5,957) \$ (5,379) NET INCOME AVAILABLE FOR DISTRIBUTION \$ 636,724 \$ 491,884 DISTRIBUTION OF NET INCOME \$ (3,612) \$ (3,495) Payments to the U.S. Treasury \$ (629,990) \$ (487,949) Transferred to surplus \$ 3,122 440 Surplus, January 1 \$ 58,460 58,020 | | \$ | | \$ | |
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| Net additions or deductions \$ 36,046 \$ (13,656) Cost of Unreimbursed Treasury Service (2,369) (1,217) Assessment by Board of Governors: Expenditures \$ (2,480) \$ (2,376) Federal Reserve currency costs (5,957) (5,379) NET INCOME AVAILABLE FOR DISTRIBUTION \$ 636,724 \$ 491,884 DISTRIBUTION OF NET INCOME \$ (3,612) \$ (3,495) Payments to the U.S. Treasury (629,990) (487,949) Transferred to surplus 3,122 440 Surplus, January 1 58,460 58,020 | All other deductions | _ | | 7 | - |
| Cost of Unreimbursed Treasury Service (2,369) (1,217) Assessment by Board of Governors: \$ (2,480) \$ (2,376) Expenditures \$ (5,957) (5,379) NET INCOME AVAILABLE FOR DISTRIBUTION \$ 636,724 \$ 491,884 DISTRIBUTION OF NET INCOME \$ (3,612) \$ (3,495) Payments to the U.S. Treasury (629,990) (487,949) Transferred to surplus 3,122 440 Surplus, January 1 58,460 58,020 | Total deductions | \$ | 1 | \$ | 14,312 |
| Assessment by Board of Governors: Expenditures \$ (2,480) \$ (2,376) Federal Reserve currency costs \$ (5,957) \$ (5,379) NET INCOME AVAILABLE FOR DISTRIBUTION \$ 636,724 \$ 491,884 DISTRIBUTION OF NET INCOME Dividends paid \$ (3,612) \$ (3,495) Payments to the U.S. Treasury (interest on Federal Reserve notes) \$ (629,990) \$ (487,949) Transferred to surplus \$ 3,122 \$ 440 Surplus, January 1 \$ 58,460 \$ 58,020 | Net additions or deductions | \$ | 36,046 | \$ | (13,656) |
| Assessment by Board of Governors: Expenditures \$ (2,480) \$ (2,376) Federal Reserve currency costs \$ (5,957) \$ (5,379) NET INCOME AVAILABLE FOR DISTRIBUTION \$ 636,724 \$ 491,884 DISTRIBUTION OF NET INCOME Dividends paid \$ (3,612) \$ (3,495) Payments to the U.S. Treasury (interest on Federal Reserve notes) \$ (629,990) \$ (487,949) Transferred to surplus \$ 3,122 \$ 440 Surplus, January 1 \$ 58,460 \$ 58,020 | Cost of Unreimbursed Treasury Service | | (2,369) | | (1,217) |
| Federal Reserve currency costs (5,957) (5,379) NET INCOME AVAILABLE FOR DISTRIBUTION \$ 636,724 \$ 491,884 DISTRIBUTION OF NET INCOME \$ (3,612) \$ (3,495) Payments to the U.S. Treasury (629,990) (487,949) Transferred to surplus 3,122 440 Surplus, January 1 58,460 58,020 | Assessment by Board of Governors: | | | 14 | |
| NET INCOME AVAILABLE FOR DISTRIBUTION \$ 636,724 \$ 491,884 DISTRIBUTION OF NET INCOME Dividends paid \$ (3,612) \$ (3,495) Payments to the U.S. Treasury (629,990) (487,949) Transferred to surplus 3,122 440 Surplus, January 1 58,460 58,020 | Decision of the second | , | | \$ | 2000 |
| DISTRIBUTION OF NET INCOME \$ (3,612) \$ (3,495) Dividends paid \$ (3,495) Payments to the U.S. Treasury (629,990) (487,949) Transferred to surplus 3,122 440 Surplus, January 1 58,460 58,020 | Federal Reserve currency costs | | (5,957) | | (5,379) |
| Dividends paid \$ (3,612) \$ (3,495) Payments to the U.S. Treasury (629,990) (487,949) Transferred to surplus 3,122 440 Surplus, January 1 58,460 58,020 | NET INCOME AVAILABLE FOR DISTRIBUTION | \$ | 636,724 | \$ | 491,884 |
| Payments to the U.S. Treasury (629,990) (487,949) (interest on Federal Reserve notes) 3,122 440 Surplus, January 1 58,460 58,020 | DISTRIBUTION OF NET INCOME | | | | |
| (interest on Federal Reserve notes) (629,990) (487,949) Transferred to surplus 3,122 440 Surplus, January 1 58,460 58,020 | · · | \$ | (3,612) | \$ | (3,495) |
| Transferred to surplus 3,122 440 Surplus, January 1 58,460 58,020 | | | | | |
| Surplus, January 1 | (interest on Federal Reserve notes) | | Section 1 | | |
| | Transferred to surplus | | and the second second second | | |
| Surplus, December 31 | Surplus, January 1 | <u></u> | 58,460 | | 58,020 |
| | Surplus, December 31 | \$ | 61,582 | \$ | 58,460 |

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Federal Reserve Bank of St. Louis

Operating Statistics

| Operations | Number of Pi | eces Handled | Dollar Amoun | Dollar Amount (thousands) | | |
|---|--|--|---|---|--|--|
| | 1989 | 1988 | 1989 | 1988 | | |
| Services to Depository In | stitutions | | A - Walland | | | |
| Cash Services: | | | | | | |
| Currency Received and Counted Coin Received and Counted Check Services: | | 614,080,000 695,858,000 | 6,766,000 65,775 | 6,841,600 66,936 | | |
| U.S. Government Checks Postal Money Orders All Other ACH Services: | 33,105,000 147,335,000 602,927,000 | 34,125,000 144,166,000 576,846,000 | 29,233,000 14,284,000 385,086,000 | 30,091,300 13,188,800 354,686,000 | | |
| Commercial | 73,780,000 21,194,000 | 42,087,000 18,916,000 | 288,272,600 16,202,500 | 256,839,300 14,070,300 | | |
| U.S. Government Coupons Paid All Other | 45,500 187,657 | 71,000 220,554 | 20,400 417,700 | 28,400 465,900 | | |
| Wire Transfer of Funds: | 2,899,969 | 2,787,319 | 3,597,000,000 | 3,457,700,000 | | |
| Loans to Depository Institutions: | 2,218 | 2,313 | 4,161,000 | 4,565,700 | | |
| Services to U.S. Treasury Transfer of Government Securities: | 132,829 | 131,396 | 207,695,000 | 164,202,000 | | |
| Food Stamps Redeemed: | 163,937,000 | 166,057,000 | 841,400 | 796,500 | | |

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Research

This report was researched and written by Federal Reserve Bank of St. Louis economists Michelle A. Clark, Jeffrey D. Karrenbrock and Thomas B. Mandelbaum. The authors would like to thank the staffs of the Federal Reserve Bank Library and St. Louis Mercantile Library for their research assistance.

Data Sources

Railroad data are from Missouri, Kentucky and Tennessee state employment offices and Little Rock industry sources. All other data were provided by DRI/McGraw-Hill.

Illustrations

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