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THE COMMERCE OF THE MISSISSIPPI RIVER

GEO. H. MORGAN,

Secretary of the Merchants' Exchange

J. Mr. 190

ST. LOUIS.





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THE COMMERCE OF THE MISSISSIPPI RIVER

— BY ——

GEO. H. MORGAN,

SECRETARY OF THE MERCHANTS' EXCHANGE OF ST. LOUIS.

The chief reason why the commerce of the Mississippi River is invested with such peculiar interest and importance, is because it represents the industrial activity of the most productive region in the United States, embracing an area of 1,381,875 square miles, or 45 per cent of the total area of the country. In extent, climate, fertility of soil and natural resources generally the Great Valley has really no equal within the confines of civilization in all that is necessary for the support of population and for surplus products for consumption and use by other nations. It is thus of great and paramount interest, not only to the people who live within its boundaries and who control its wealth and resources, but to our whole country and also to other nations across the Atlantic that are the daily beneficiaries of its wondrous development. It was a forecast of what this region would become, when opened to settlement and cultivation, that led De Toqueville many years ago to characterize it as the most glorious dwelling place prepared by God for the habitation of man.

This prophecy has been fulfilled in the present importance of the Valley of the Mississippi to our own Republic, as an element of national wealth and a seat of population, and also in its value to many other countries as a source of food and supply of raw material and other staples—the realization

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exceeds the dream of the French philosopher. As a simple illustration of this importance in the matter of export trade alone, it may be remarked that if for only one season our surplus products in food and cotton were withheld from export the result would perceptibly effect prices and supply abroad. And if this be true now with our present population and development it must be vastly greater in the future with increased settlement and a wider cultivation.

It is the very fact of this great productiveness—of its large contribution to the export trade of the country—that makes the subject of transportation of such engrossing importance to the Valley of the Mississippi. Its geographical position is central, and as for the most part it lies at a distance from the seaboard, a cheap and rapid diffusion of its products involves the success of all its industrial activities. The surplus products of so vast and fertile a region are comparatively valueless without adequate means to reach the markets of the world, and to accomplish this transportation facilities are a paramount and commanding necessity.

Without the means of cheaply and rapidly transferring from one section to another the surplus products of the soil and the articles produced by the skill and ingenuity of man, thereby making possible the exchange of commodities necessary for the well-being and comfort of the people, there would be little or no incentive to produce anything in excess of the immediate necessities of life. That all ages and peoples have recognized this principle is shown by the established fact that the first settlements in every land were made on the shores of the ocean or on the banks of rivers, thus securing the means of communication between other localities and neighborhoods.

The great rivers of the world have been intimately associated with the history of peoples and empires. Egypt has the historic Nile, India the Ganges and its tributaries, China the Yang-tse-Kiang and the Yellow River, Germany the Rhine, renowned in song and story; Austria the blue Danube, France the Siene, and England the famous Thames. So our own country has its Hudson, James, Delaware, Rap-

pahannock, and the greatest of all, the Father of Waters—the great Mississippi and its tributaries, the Missouri, Ohio, Illinois, Red, and others of lesser note, all of which are prominently identified with its early and later history. On these great rivers of our country were located the primitive settlements which have since become the great cities of the land. The same principle that determined the location of these earlier settlements has ruled in later days, for with few exceptions, the principal towns and cities of our land, and especially in the Mississippi Valley, are situated on rivers or lakes.

But, as our country developed, new agencies for more varied means of transportation became necessary, and the system of rail communication was established, which has since covered the land like a network and developed to a most wonderful degree. But the new system, while it gradually absorbed to a great extent the freight and passenger traffic of the country, has not done away with the value and necessity of water-ways; both are needed for the immense internal commerce which has grown faster than have the facilities for its rapid and economical handling. So we find to-day that the great lakes and the great rivers are still most important factors in the problem of transportation.

The cheapness of water transportation, as compared with rail, and the influence the water-ways have exerted in the cheapening of freight rates is a matter of common information. The increase in the number and the paralleling of railroad lines and their better equipment have of necessity, by competition, tended to reduce the cost of rail carriage, but the controlling influence of water routes has been and must always be an important factor in the reduction of freights.

The necessity of maintaining and improving the water-ways of the country has always been recognized by the general government. As early as 1822, Hon. Thomas H. Benton, Senator from Missouri, secured the first appropriation from Congress for the improvement of the Missouri River; and in 1847, Hon. Daniel Webster, in the Senate, advocated the im-

provement of the internal water-ways of the country and defended the power of the government to make appropriations therefor in the interest of cheap transportation. In the report of the Interstate Commerce Commission for 1890 it is stated that the average cost of carrying freight by rail was .941 cents per ton per mile. This is \$11.20 for 1,200 miles, the distance between St. Louis and Boston, and also between St. Louis and New Orleans. During 1892 the average rate of freight by river per barges on grain in bulk from St. Louis to New Orleans was \$2.16 per ton, and on grain in sacks \$3.37 per ton. During the same year the average rate of freight on wheat per bushel from St. Louis to Liverpool via river to New Orleans was 14 cents per bushel, and from St. Louis to Liverpool by rail to New York 21 cents per bushel. These ffgures illustrate forcibly the economy incident to river transportation, and which it is probable will always be maintained.

The Mississippi River runs through the richest agricultural basin in the world; traversing the entire territory of the United States from its northern to its southern boundary, navigable for 2,000 miles, and with its tributaries draining more than half the States of the Union. It washes the shores of ten States: Minnesota, Wisconsin, Iowa, Illinois, Missouri, Kentucky, Tennessee, Arkansas, Mississippi and Louisiana. It furnishes with its two largest tributaries, the Missouri and the Ohio, a navigable water line from Pittsburg on the east to the foot of the Rocky Mountains on the west, and connects by the Illinois River and canal the great lakes and the Gulf of Mexico. It is thus the national channel oceanward for the exports of these great and fruitful regions, and because of this fact must always be of vast importance to the United States and to the world.

The river commerce of the Mississippi Valley has undergone many changes, especially in the last twenty-five to thirty years. The first use of the rivers of the West for commercial purposes was to carry the skin-laden skiffs and batteaus of the early voyagers and Indian traders. Then followed the barges and flat boats propelled by sail and pole. Next came

the use of steam, and soon the Mississippi steamboat appeared, the marvel and wonder of the age. As the country developed and the traffic of the river demanded, steamboats increased in size, speed and elegance, until a Mississippi steamboat was considered a floating palace, the acme of all that could be desired as a means of rapid and luxurious travel and for the transportation of freight. Up to about 1862 the river controlled the bulk of the freight and passenger business of the West. But at the close of the Civil War, when industrial activity resumed its course and an era of progress and develment was inaugurated, which has had no parallel in the history of modern times, new avenues of travel became a necessity and rail lines were projected in every direction, and especially westward across the Mississippi River, and as they pushed into the new regions of the Great West, traffic was necessarily diverted from longitudinal to latitudinal lines. In the same way when the extension of railroads reached the South, freight as well as passenger traffic was diverted to a considerable extent, the rail lines reaching direct to interior points and affording quick transit for passengers and general merchandise. But notwithstanding these facts the invincible economy attaching to water transportation still asserts itself, and the cheaper and more bulky classes of freight that are moved in large quantities and cannot bear the increased cost of rail transportation, still seek, whenever practicable, the water route. Passenger travel, however, naturally takes the more rapid means of conveyance, leaving to the rivers only the pleasure travel southward in winter and northward in summer, and the local travel between the smaller river towns. The character of the river craft has been adapted to these new requirements. Steamboats are now built more especially for freight traffic and give but little attention to passengers, while towboats, propelling large barges carrying some times in one tow 10,000 tons of freight, do a large proportion of the business. The loss of the distributing trade of the lower river-that is of the freight which formerly went by boat to prominent points on the river banks and was thence distributed to the interior—has been made good by the export grain movement, which now forms an important item of our foreign commerce. The opening of the mouth of the Mississippi by Capt. James B. Eads, of St. Louis, gave to the Mississippi Valley an outlet through the jetties to the markets of the world, and more than compensated for the diversion from the river of the coast or local distributing trade.

There are no means at hand to ascertain definitely the amount in tons or the value in dollars of the commerce of the Mississippi for any given year. The magnitude of such an undertaking takes it out of the limits of private or individual effort. But the following statements taken from the report of the Census Bureau and covering the year 1889 show in a very practical manner the magnitude of the commerce of western water-ways:

EQUIPMENT.

Upper Mississippi River System Lower Mississippi River System Ohio River System Red River of the North	572 6,245	. Tonnage. 213,547 247,958 2,920,468 11,405	Value. \$2,136,992 4,476,472 8,696,341 25,200
Total	7,445	3,393,378	\$15,335,005
Tota	AFFIC.	Tons of Freight	Miles Traveled.
Upper Mississippi River System Lower Mississippi River System	1,821,734 2,534,017 6,503,143	6,958,340 6,401,203 16,041,866 3,637	1,424,655 2,311,573 3,579,233 1,084
Total 1	0,858,894	29,405,046	7,316,545

The census office gives the following explanation as to the methods used in dividing the business of the different systems:

"The business of each river is that of the river itself and its tributaries; in the case of the Upper Mississippi, the Ohio, and the Lower Mississippi—used as titles for the three systems—the business of the unmentioned tributaries is included, but not that of those mentioned as forming the system. For instance, the business of the Upper Mississippi includes that of the Minnesota, Galena, Red, Cedar, etc.; that of the Ohio includes the business of the Guyandotte and Licking, and

that of the Lower Mississippi includes the business of the bayous, the Big Hatchie, the Kaskaskia, the Big Black, etc. In every case, where at all possible, the commerce is that of each river; that is, only such freight is allowed to a river as had its origin there. The traffic of St. Louis by river is divided. That from the Upper Mississippi and Ohio is given to those rivers, as is that from St. Louis to points on those rivers; that to and from St. Louis and points on the Lower Mississippi is given to that river, and the local business of St. Louis is given to the Lower Mississippi."

The different commodities transported is given in tons as follows:

Coal	10,632,109	Clay and Sand	141.464
Forest Products	10,531,189	Manufactured Iron	122,060
Merchandise	5,886,259	Mill Products	88,129
Wheat	1,068,504	Hay	78,635
Cotton	686,635	Other Grain	51,308
Iron Ore	536,647	Fruits and Vegetables	23,091
Cotton Seed and Oil	392,988	Tobacco	17,707
Corn	266,071	Pig Iron	5,506
Sugar and Molasses	189,829	Oils	3,128
Animal Products	169,470	Ice	4,000
Stone and Gravel	158,453	Cement, Brick and Lime	1,231
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Practically the commerce of the Mississippi is divided into two classes, the Upper Mississippi traffic and the Lower Mississippi traffic. The city of St. Louis, Missouri, is the dividing line where the commerce of the upper river terminates and that of the lower river originates. Along the river above, as well as below St. Louis, there is a very considerable local trade between towns, but none of the upper river packets run below St. Louis, and the lower river boats do not go above.

THE UPPER MISSISSIPPI.

At the head of navigation on the upper river stand the twin cities of Minneapolis and St. Paul. These cities command a very large portion of the trade of the Northwest, both being jobbing centers, and Minneapolis the largest in the manufacture of flour in the world. These cities are prominent railroad centers and depend less on river facilities than the other cities on the upper river. Between St. Paul and St. Louis

are many thriving towns, such as Hastings, Winona, Red Wing and Lake City in Minnesota, Prescott, La Crosse and Prairie-du-Chien in Wisconsin, Dubuque, Davenport, Clinton, Muscatine, Burlington and Keokuk in Iowa, Savanna, Fulton, Rock Island, Quincy and Warsaw in Illinois, and Alexandria, Hannibal, Louisiana and Clarksville in Missouri, all important points and largely dependent upon the river for their commerce. In answer to an inquiry made in 1890 Mr. E. M. Dickey, President of the Diamond Jo Line of steamers plying between St. Louis and St. Paul, furnished the following statement in regard to the river traffic above St. Louis:

"There are 116 steamers, exclusive of the ferry boats, engaged in the transportation of freight and passengers on the Mississippi River above St. Louis. Cf these 29 are employed in packet and excursion trades, carrying both freight and passengers, and 87 are employed exclusively in rafting and towing. The registered tonnage of these boats is 20,800 tons, and if the tonnage of barges, used in connection with them, is added, the total would exceed 25,000 tons. A conservative estimate would place the value of these boats and of the barges, wharf-boats, warehouses, piers, docks, etc., necessary for their operation at not less than \$1,500,000. About 1,800 men are required to operate these boats, to whom not less than \$600,000 are annually paid as wages. The total expense of operating these boats, including fuel, supplies, etc., but not including repairs of the boats, or the wages or expense of agents or officers on shore, exceeds \$1,250,000 per annum.

"Some of these packets run in short trades and make daily trips, as between St. Louis and Alton; Quincy and Keokuk; Davenport and Clinton; Winona and Alma; and others having longer trades, as between St. Louis and Clarksville; St. Louis and Keokuk, etc., make tri-weekly trips; while not to exceed six boats make the through trip from St. Louis to St. Paul, requiring from eight to twelve days, depending upon the season of the year, stage of water and volume of freight business. The boats engaged only in excursion business

usually make headquarters at one of the larger cities, such as Quincy, Burlington or Davenport, and make special short trips to neighboring towns as opportunity offers. A growing and very popular feature of this business is in connection with the various railroads which run special excursion trains from their interior stations to the river and give their passengers a steamboat ride.

"The raft boats are chiefly engaged in towing logs from the St. Croix, Chippewa and Black Rivers to the various saw mills located at Winona, La Crosse, Lansing, Prairiedu-Chien, Dubuque, Fulton, Lyons, Clinton, Moline, Rock Island, Davenport, Muscatine, Burlington, Fort Madison, Quincy and St. Louis. The logs, lumber, ice, stone, coal, etc., transported during 1890 by boats engaged exclusively in towing exceeded 4,000,000 tons, or an average of nearly 45,000 tons to each boat, nearly all of which was south-bound business.

"The boats running in packet trades handle between 350,000 to 400,000 tons of miscellaneous merchandise, grain, hay, etc. This business was equally divided between north and south-bound, and a very large proportion of it might be called local business moving from such jobbing and manufacturing points as Quincy, Burlington, Davenport, Dubuque and La Crosse to the smaller towns near at hand. These boats also carried over 100,000 regular and over 150,000 excursion passengers."

The year 1891 was an unprofitable one on account of low water which lasted from July 1st to the close of navigation.

Mr. Dickey says in reference to the business of the year 1892:

"Taking the season through, the freight business shows an increase over 1891 of about 50 per cent, and the passenger business an increase of about 45 per cent. The lumber trade was very active during the entire season and all the raft boats were kept exceedingly busy. It has not been possible to get the actual figures regarding logs and lumber transported at this time, but I am certainly safe in saying that the business

of the Upper Mississippi for 1892 was considerably in excess of 1889, and the census reports for that year show the business to have been about 5,000,000 tons.'

As is readily seen, the most prominent feature of the Upper Mississippi commerce is the logs and lumber floated on this river and its tributaries. In June, 1891, the Mississippi Valley Lumberman gave the following estimate of the yearly amount of this traffic:

Logs out of the St. Croix. 200,000,000 feet.
Logs out of the Chippewa. 600,000,000 "

"A fair valuation of the logs would be \$9.00, or a total of \$7,200,000. The tariff on them for towing, etc., would not be far from an average of \$2.00 per 1,000 feet, or \$1,600,000. In addition to the logs taken down the river considerable manufactured lumber is rafted down stream. The amount of this is probably not far from the following figures:

"This lumber is worth fully \$11.00 per 1,000 feet, or a total of \$4,840,000, and the tariff for transportation will probably amount to \$600,000. These figures do not cover the lath and shingles carried, the value of which is not far from \$500,000."

Major A. MacKenzie, U. S. A., in charge of the improvement of the Mississippi River between the Falls of St. Anthony and the mouth of the Illinois River, has kindly furnished me the following statistics which will appear in his report for the fiscal year ending June 30, 1893:

"The most important business carried on in connection with the navigation of the Upper Mississippi River and its principal tributaries is the lumber trade, which gave employment in 1892 to about 100 towboats valued at \$750,000. Along the river from Minneapolis to St. Louis 87 sawmills were operated by 71 wholesale lumber firms, having an invested capital of about \$40,000,000. Their manufacture and distribution in 1892 was 1,420,530,939 feet of lumber; 563,397,275 shingles and 349,934,540 lath. This shows an increase over 1891 of

158,588,970 feet of lumber, 23,409,525 shingles and 44,-513,590 lath. This increase was due in great measure to the excellent condition of the river during the season which facilitated the rafting of logs down the river. In addition to the manufacturers there are large numbers of retail or distributing firms.

LUMBER MANUFACTURE ON THE MISSISSIPPI RIVER FOR SEVEN YEARS.

Year.	[Lumber, ft.	Shingles, No.	Lath, No.
1892	931,806,305	357,014,775	228,042,910
1891	814,228,707	332,666,750	207,723,350
1890		508,986,705	*********
1889	1,044,555 298	463,122,700	
1888		423,655,050	**********
1887		363,239,750	
1886	934,735,854	274,581,750	267,858,340
Total	6.994.317.604	2,723,277,480	

STATEMENT OF DISTRIBUTION OF LUMBER ALONG THE UPPER MISSISSIPPI RIVER FROM MINNEAPOLIS TO ST. LOUIS IN 1892.

Locality.	Lumber, ft.	Shingles, No.	Lath, No.
Minneapolis	488,724,624	206,382,500	121,891,630
Hastings	6.500,000	3,000,000	2,000,000
Red Wing	9,000,000	4,000,000	750,000
Al na	1,065,000	1,600,000	145,000
Winona	146,000,000	98,800,000	44,200,000
Laneing		6 500 000	2,250 000
Prairie du Chien	15,231,700	7,164,500	2,462,400
Cuttonhous	12,000 000	4,500,000	3,500,000
Guttenberg	58,000,000	23,350,000	10,000,000
Dubuque			2,200,000
Bellevue	4,500 000	18,838,000	17,102,000
Lyons.	67,844,000	5 1,864,275	29,620,760
Clinton	195,245,605		3,250,000
Fulton	16,200,000	7,200,000	
Moline	38,500,000	4,000,000	6,770,000
Davenport	62,850,000	10,125,000	13,7.5,000
Rock Island	102 350,000	47 841,000	28,546,000
Muscatine	59,500,000	13,150,000	13,738,000
Burlington	27,680,000	9,000,000	21,000,000
Fort Madison	24,000,000	15,750,000	7,720,000
Keokuk	14,000 000	7,000,000	3,000,000
Quincy	28 500,000	19,187,000	7,290,000
Canton	5,640,000	7.145,000	2,573,750
Hannibal	25,200,000	14,000,000	6,200,000
Total	1,420,530,929	563,397 275	349,934,540

LUMBER MANUFACTURED IN THE UPPER MISSISSIPPI VALLEY IN 1892.

Locality. Minneapolis	931,806,305 175,991,427 240,678,500	Shingles, No. 206,382,500 357,014,775 66,099,750 127,955,500 177,169,500
Total	2,136,034,638	934,622,025

"The larger part of the above was floated for greater or less distances on the Mississippi River either as logs or lumber.

"The principal steamboat lines on the Upper Mississippi River are the Diamond Jo Line, the Eagle Packet Co. and the Joy Lumber Line. There are also many independent boats carrying freight and passengers. During the season of 1892 the amount of freight and number of passengers carried on boats and barges could not be accurately ascertained, but partial reports give 195,036 tons of freight and 164,201 passengers, not including those of ferry and excursion boats. Taking into consideration the logs and lumber floated, the gross tonnage for 1892 was approximately 4,500,000 tons."

The upper river business is augmented by the freight brought into the Mississippi River from the Missouri and Illinois Rivers. The four boats of the Kansas City Transportation Co., running between St. Louis and Kansas City, carried during the year 1892, 42,520 tons of freight, and the two boats of the St. Louis, Naples & Peoria Packet Co. handled 57,275 tons from the Illinois, all of which came to St. Louis.

THE LOWER MISSISSIPPI.

The City of St. Louis, Missouri, is the largest and most important city on the Mississippi River. It is the fifth city of the United States in population and the fifth in manufactures. It is located on the west bank, about 800 miles below St. Paul and 1,242 north of the city of New Orleans, the commercial mouth of the river. The Missouri River enters the Missis sippi 21 miles above St. Louis, and the Illinois River 14 miles above the mouth of the Missouri, so that St. Louis is practically at the confluence of these three streams. As before stated this point is the dividing line which separates the traffic of the river. The upper river boats end their journeys here, and here also the steamers load for the South with cargoes for distribution in the Southern States and with grain and flour for Europe. The geographical location of St. Louis makes it the principal center of the river commerce of the

Mississippi Valley. In an article by Mr. C. N. Osgood, Secretary of the Merchants' Exchange Transportation Committee and also Commissioner of St. Louis Traffic Commission, published in the annual report of the Merchants' Exchange for 1892, the position of St. Louis as the best distributing point in the United States is succinctly stated as follows:

"The advantages of St. Louis as a commercial metropolis are not confined to any single section of the country. One city and another may claim the advantages of proximity to this or that section, but St. Louis alone can claim the vantage ground of immediate and intimate association with all sections, west of the Alleghanies. She is not alone the nearest principal gateway and market for the great western empire, but is also in close touch with the northern and northwestern sections west of the Great Lakes, while her commanding situation with reference to the trade of the Southwest and South is already well known and recognized. So also are her trade relations to the eastward constantly gaining in strength and importance, as year by year her manufacturing establishments increase rapidly in number and extent, and as more and more each year she serves as the distributor of the varied products of the South and West and of contiguous States. In the Mississippi Valley can and eventually will be produced about everything which the East has heretofore supplied to the West-and St. Louis is the metropolis of the Valley.

"The close relations of St. Louis with the Southern States are well known, and the sure progress of 'the New South' will continuously and in increasing measure contribute to hers. Moreover, these relations will be extended and more closely cemented by the future railroad development in that direction, a development which as a matter of fact has already actively commenced. In 1892 one-third of the new railroad mileage of the country was constructed in the district south of the Ohio River and east of the Mississippi. The Southwest, with which section St. Louis has been always more closely affiliated than has any other principal city, is also entering

upon an era of energetic development which will eventually rival and perhaps outstrip that of any other portion of the western country. Texas and Oklahoma are already witnessing an activity of energetic enterprise within their borders, which, in the one case, will soon double the wealth and population of the State, and in the other eventually convert a little-known Territory into a State 'second to none of the States touching its borders.' Northern Arkansas, with all its natural wealth of field, forest and mountain, remains as yet a practically virgin territory, located within a few hundred miles of St. Louis. Even the development of a great part of Missouri is but just commencing. The varied natural resources of Southern Missouri probably exceed those of any equal section or territory in the country, and the mineral and agricultural wealth there awaiting development are most remarkable in extent, and will all eventually contribute in one way and another to the increasing commercial importance of St. Louis. The strictly argicultural States of the West have heretofore enjoyed the most rapid development, but the maximum annual rate of increase in that direction has probably been reached, or very soon will be; while the influx of immigration and capital will more largely than ever before be now directed to the South and Southwest.

"Not only does the location of St. Louis secure to her, within the broad limits indicated, advantages over all competitors in respect to transportation charges by rail routes, but Nature has also secured to her, remarkable advantages of the same character in the way of tributary water routes. The improvement of the Lower Mississippi River as now determined upon by the Government, will, when effected, result not only in incalculable benefit to the shipping interests of St. Louis by affording an all-the-year-around avenue for the cheaper transportation of grain, flour, meats, etc., and general merchandise, but also in attracting to St. Louis in steadily increasing volume a larger share of the products of the West and Northwest and the Mississippi Valley at large. And with the improved methods of river navigation which are now contemplated and

though heretofore long delayed are sure to follow the demand, the importance of St. Louis as a chief distributing centre will be still further and rapidly enhanced. For with an all-water route to Mexico, Central and South America and the West Indies the productions of these countries will find in St. Louis a chief natural market, as they can plainly be distributed from St. Louis to the country at large to much better advantage than from any other one point. There can be permanently no sufficient reason why the distribution of those productions should be monopolized by the Eastern seaboard cities. The natural route for that commerce is manifestly via the Mississippi River to St. Louis—the heart of the continent."

The lower river traffic is divided among the following transportation lines:

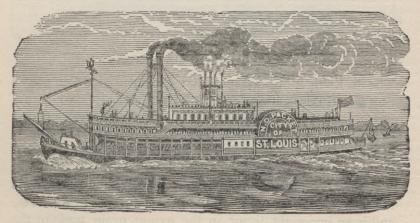
St. Louis and New Orleans Anchor Line, 9 steamers.

St. Louis and Mississippi Valley Transportation Co., 10 towboats and 70 model barges with a capacity of 50,000 bushels of grain each.

Cherokee Packet Co., 2 steamers.

St. Louis and Tennessee River Packet Co., 3 steamers.

W. H. Brown & Sons Line from Ohio River, 3 towboats.



St. Louis & New Orleans Anchor Line Steamer City of St. Louis.

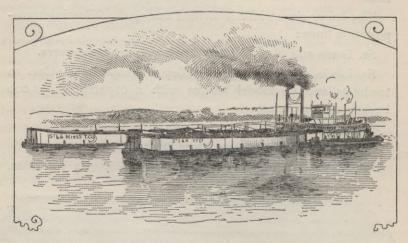
The total river tonnage of St. Louis for the past three years shows but little variation.

RIVER TONNAGE FOR PAST THREE YEARS.

	1892.	1891.	1890.
Tons received by steamboats and barges		450,050	530,790 132,940
" shipped by steamboats and barges	130,220 $502,215$	142,090 512,930	601,862
Total	1.189.415	1.105.070	1.265,592

The tonnage of 1892 was divided as follows:

Lower Mississippi River	Tons,	605 290
Upper Mississippi River	66	317,250
Illinois River.		57,275
Missouri River		42,520
Ohio River.	6.6	97,930
Cumberland and Tennessee Rivers	"	69,150
Total T	ons. 1	189.415



THE ABOVE CUT REPRESENTS

The St. Louis & Mississippi Valley Transportation Company's Steamer Hoxie, with six freight barges and one coal barge, passing Memphis, February 17th, 1892. Length of tow, 610 feet; width of tow, 176 feet. Cargo, 8,566 tons, comprising 122,500 bushels corn in bulk, 150,500 bushels wheat in bulk, and 15,532 bushels coal.

A prominent feature of the river commerce of St. Louis is the export grain trade which has grown to large proportions, and is an important factor in the export grain trade of the country. The grain is carried in bulk in large barges propelled by powerful towboats, and as much as 10.000 tons of grain and other freight has been transported in one tow to New Orleans in six days time. The extent of this movement is shown in the following table:

SHIPMENTS OF BULK GRAIN, BY RIVER, FROM ST. LOUIS TO NEW ORLEANS
FOR TWENTY YEARS.

	101	a T ti Tari T T	T TATE TOOL		
Year.	Wheat, bus.	Corn, bus.	Rye, bus.	Oats, bus.	Totals.
1892	5,149,708	3,228,645	** *****	36,587	8,414,940
1891	6,940,215	1,482,731	45,600		8,468,546
1890	1,409,440	8,717,849	*******	89,960	10,217,244
1889	1,651,950	12,398,955	17,432	89,707	14,158,046
1888	1,247,952	5,844,042	******	160,584	7,252,578
1887		7,365,340	*******	217,722	11,556,799
1886		7,501,730	1.212.5	598,755	8,834,924
1885		8,180,039	36,093	401,787	8,667,919
1884		4,496,785	344,864	487, 221	6,647,558
1883		9,029,509	205,430	389,826	11,059,508
1882	5,637,391	2,529,712	15,994	150,320	8,333,417
1881	4,197,981	8,640,720	22,423	132,823	12,993,947
1880		9,804,392	45,000	*******	15,762,664
1879		3,585,589	157,424	30,928	6,164,838
1878		2,857,056	609,041	108,867	5,451,603
1877		3,578,057	171,843		4,101,353
1876		1,737,237			1,774,379
1875		172,617		70.000	308,578
1874		1,047,794	*******	10,000	1,423,046
1873		1,373,969	******		1,373,969

The movement inaugurated by St. Louis has been followed by other localities and considerable grain has gone to New Orleans for export from other points, both by the Mississippi River and by rail routes. The total exports from New Orleans for the past seven years is given in the following table:

STATEMENT OF BULK GRAIN EXPORTED FROM NEW ORLEANS, DURING

1552 AND COMITATIONS	LOW LWEALO	US ILANS.	
То	1892 Corn.	1892 Wheat.	1892 Rye.
England France Germany Belgium Ireland Denmark Holland	1,731,790 1,042,453 2,228,099 675,948 765,714 211,647 16,000	5,175,182 5,335,755 1,902,727 490,120 490,951	218,555 75,925
Sweden Spain Central America. Cuba Scotland Total bushels, 1892.	93,140 6,832 6,150 13,460 	45,401 134,028 2,500 205,161 14,334,498	39,370
Total bushels, 1891. Total bushels, 1890. Total bushels, 1889. Total bushels, 1888. Total bushels, 1887. Total bushels, 1886. Total bushels, 1886.	1,941,853 11,978,768 13,601,830 5,599,663 7,201,231 8,155,943 7,529,357	10,014,351 1,358,753 1,067,864 1,056 892 4,390,126 988,626 24,148	309,242 137,593 17,482

The economy of the water route from St. Louis, as compared with the rail route to the Atlantic seaboard for freight for European ports, is demonstrated by the statements given herewith:

AVERAGE RATES OF FREIGHT ON GRAIN IN CENTS.

From St. Louis to Liverpool via River to New Orleans and via Rail to New York.

	To New Orle	ans by River.	Fork	To Liverpool.		
YEAR. On Grain in sks. per 100 lbs.		On Wheat in bulk per bushel.	On Wheat to New York by rail, per 100 lhs.	Via New Orleans, On Wheat per bu.	Via New York, On Wheat per bu.	
1877	21	81/4	41			
1878	171/2	71/4	38			
1879	18	73/4	331/2			
1880	19	81/4	42			
1881	20	6	32			
1882	20	6 5-12	291/2	22 2-3	23%	
1883	17%	51/2	33	19 7-12	27	
1884	14	6 5-8	26	14 7-12	211/4	
1885	15	6 2-5	22 1-7	15 1-9	201/2	
1886	16	61/4	29	16 1-6	24	
1887	181/4	6	32 2-15	15	241/8	
1888	15	61/2	*291/2	15 1-6	22.95	
1889	17.93	5.95	281/2	17 1-3	24.97	
1890	15.66	6.58	275%	14 1-3	21.48	
1891	16.28	6.871/2	29	15 3-4	23,55	
1892	16.87	6.50	26.62	14	21	

^{*}These figures represent published rates. At times during the year the rate was as low as 20c. per 100 lbs., making the average rate St. Louis to Liverpool via New York at times as low as say 17½ cents per bushel on wheat.

The following table shows the ocean rates from New Orleans and New York:

Average Rate of Freight on Wheat per Bushel by Steamer from New Orleans to Liverpool during 1891 and 1892.

AVERAGE RATE OF FREIGHT ON WHEAT PER BUSHEL BY STEAMER FROM NEW YORK TO LIVERPOOL DURING 1891 AND 1892.

Month.	Rate in Cents.	Rate in Cents.	Month.	Rate in Cents.	Rate in Cents.
_					
January	9c. to 12c.	7 to 10	January	9 c.	7‡
February	71c. to 12c.	7 to 9	February	fac.	42
March	71c. to 10c.	7 to 8	March	7 to.	3
April	8c. to 10c.	5 to 8	April	33c.	3
May	4c. to 6c.	. to 6	May	47c.	31
June	70.	5 to 6	June	4 0.	4
July	50.	5 to 7	July	5½C.	4
August	5c. to 8½c.	7 to 10	August	41c.	6
September.	8c. to 9c.	8 to 11	September.	4 C.	8#
October	8c. to 10c.	10 to 12	October	6 c.	111
November.	Sc. to 91c.	11 to 13½	November.	47c.	$11\frac{1}{2}$
December .	6c. to 10c.	11 to 13	December	2½C.	83

The following tables give the receipts and shipments of freight at St. Louis by river during 1892:

Article.	Receipts.	Ship- ments.
	The state of the s	777
Apples, bbls	19,547	2.381
Ale and Beer, pkgs		49,748
Bagging, rolls	*******	31,995
Barbed Wire, lbs		2,616,731
Beef, tierces	98,230	1,063
Butter, lbs	98,230	56,553
Boots and Shoes, case	S	24 825
Beans, pkgs	557	7,150
Bran, sacks	4,418	46 048
Cordage, coils	244	********
Cattle, head	11,609	1,392
Castor Beans, sks	95	*******
Cement, bbls	123,880	*** 7 041
Cheese, bxs	92	7,241
Coffee, sks	105	15,154
Corn, sks	84,706	169,295
Corn in bulk, bush	64,400	3,228,645
Cornmeal, bbls	5,848	198,357
Candles, bxs		1,850
Dried Fruit, pkgs	7,555	12,213
Eggs, pkgs	35,298	1,151
Fish place	4,515	1,101
Fish, pkgs	78,957	342,488
Grease, lbs	1,000	72,710
Glucose, bbls	450	12,110
	2,879	2,612
Hay, tons	2,549	3,633
Horses & Mules, hd. Hides, lbs Hominy & Grits, bbls	1,072,095	11,050
Hominy & Grits bbls	1,012,000	94 468
Hogs, head	62 473	138
Iron and Steel, tons.	2,245	100
Lard, lbs	54,320	8,514,027
Lead, pigs	01,020	3,862
Lumber, ft	115,491,163	*********
Logs, ft	23,000,000	
Lath, number	22,205,300	********
Malt, sks	,200,000	3,411
,		Jill

		Ship-
Article.	Receipts.	ments.
Merchandise, pkgs	492,875	1,535,584
Molasses, bbls	3,801	5,614
Mol: sses, kegs	3,001	4,387
Nails, kegs	9,015	37,621
Oats, sks	28,458	183,489
Oats, in bulk, bush	20,200	36,851
Oatmeal, bbls	2,167	********
Oil, bb's	120	
Onions, pkgs	20,982	5,852
Oranges and Lemons, pkgs.	25	
Pig Iron, tons	7,059	231
Peltries & Furs, pkgs	2,083	
Pork Product, Ibs	332,270	11,021,722
Pickets, number	690,000	
Potatoes, pkgs	16,633	28,564
Rye, sks	1,516	496
Rice, pkgs	18,437	2,780
R. R. Iron, tons	7,125	
Salt, sks	10,500	1,920
Salt, bbls	********	21,058
Seeds, pkgs	5,179	*******
Sheep, head	10,220	1,187
Shingles, number	38,496,500	
Sugar, hhds	41	15
Sugar, bbls	96,666	25,135
Sugar, bags	69,273	23,133
Soap, bxs	*********	42,500
Tallow, lbs	829,603	359,194
Tar and Pitch, bbls,	348	*******
Tobacco, hhds	348	193
Tobacco, manfd., lbs.	374,893	1,478,276
Tin, bxs	1,195	4 000
Wheat, sks	706,974	1,008
Wheat in bulk bush	10,000	5,149,708
Wines & Whi ky,pkgs	2,625	5,054
Wool, lbs	658,170	9 579 689
White Lead, lbs		3,572,663

ST. LOUIS TO NEW ORLEANS.

RATES OF FREIGHT, BY RIVER, FROM ST. LOUIS TO MEMPHIS, VICKSBURG AND NEW ORLEANS, DURING 1892.

	per bbl.	per bbl.		Pork	Pork, per bbl.	ppl.	Bran, 100 lbs.	Bran, 100 lbs.	lbs.	Ha	Hay per 100 lbs.	00 lbs.
DATE.	Memphis.	Vicksburg.	New Orleans.	Memphis.	Vicksburg.	New Orleans.	Memphis.	Vicksburg.	New Orleans.	Memphis.	Vicksburg.	New Orleans.
January 1st to February 2d February 2d to April 21st. April 21st to August 22d August 22d to November 3d. November 3d to Docember 3st.	42888	58882	35.55	800 800 875 875 875 875	252 252 252 252 252 253 253 253 253 253	0.55 4 55 50 50 50 50 50 50 50 50 50 50 50 50	200 00 00 00 00 00 00 00 00 00 00 00 00	251172 251404040	02 171 171 171 171 171 171 171 171 171 17	22223	20 20 20 20 34 34 34 34 34 34 34 34 34 34 34 34 34	122 122 123 124 125 126 126 127 126 126 126 126 126 126 126 126 126 126

AVERAGE	
MONTHLY RATE OF FREIGHT ON BULK GRAIN BY BARGES	FROM ST. LOUIS TO NEW ORLEANS FOR FOUR YEARS.

In sacks by 1892	1880 15.68 4 4 6 58 4 1880 1880 1880 1880 1880 1880 1880 1
ил визнед. 1889. 1890, 1891.	January 7 cfs. 7 cfs. 7 cfs. 7 cfs. 7 cfs.

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Average rate of freight on wheat in cents per bushel,	St. Louis to Liverpool via New Orleans.	
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1888.

1889.

14 1-3 21,48 1890.

153 23.55

1892.

HARBOR AND WHARF COMMISSIONER'S REPORT.

STATEMENT OF THE AMOUNT OF LUMBER, SHINGLES, LATHS, PICKETS AND LOGS RECEIVED BY RIVER AT ST. LOUIS DURING THE YEAR 1892 AND PREVIOUS YEARS.

1892.	White Pine Feet,	Shingles, No.	Laths.	Pickets. No.	Logs Sup. Feet.	Yell'w Pine. Feet.	Poplar. Feet,	Cotton- wood. Feet.
ofal, 1892. (4. 1891. (4. 1889. (4. 1889. (4. 1886. (4. 1886. (4. 1886. (4. 1885. (4. 1883. (4.	89,405,052 80,241,799 71,739,010 71,535,20 77,311,387 77,311,387 131,480,066 134,170 131,775,938 129,482,839 129,482,839	88, 946, 500 41, 037, 750 45, 449, 150 45, 350, 500 25, 743, 500 26, 743, 500 66, 582, 387 60, 665, 671 56, 885, 209	22, 205, 300 20, 331, 050 16, 335, 650 14, 660, 387 37, 154, 660 51, 127, 567 28, 153, 100 35, 247, 014	690,000 1,114,490 608,688 401,932 273,744 448,060 862,330 571,450 1,101,630 1,451,748	7,852,880 5,907,190 10,095,082 9,738,776 8,318,880 6,6278,500 6,667,940 6,677,940 6,837,711 5,033,146 4,341,763	101,500 257,500 191,500 501,000 113,000 73,790 97,000	5, 809, 327 7, 764, 358 7, 764, 358 10, 659, 000 8, 419, 600 10, 578, 000 9, 471, 041 8, 430, 462 3, 949, 202 10, 266, 693 11, 844, 915	9,833,824 11,109,655 15,586,800 11,951,345 8,734,000 6,436,000 8,763,800 8,763,800 8,763,800 1,760,000 2,530,000

STATEMENT

SHOWING AMOUNT OF FREIGHT, IN TONS, RECEIVED AT ST. LOUIS BY EACH RAILROAD AND RIVER, FOR FOUR YEARS.

ROUTE.	1892.	1891.	1890	1889.
Missouri Pacific R. R.		844,998	931,149	799,848
St. Louis & San Francisco Ry	551,141	486,671	437,913	363,325
Wabash Railway (West Line)	426,645	491,800	611,335	523,951
Chicago, Alton & St. L. R.R. (Mo. Div.)	126,487	147,646	124,239	102,158
St. Louis, Kansas City & Colorado R. R	56,114	48,202	40,164	35,356
St Louis, Iron Mountain & Southern R.R	1,105 857	988,195	947,577	929,388
St. L., A. & T. H. R. R. (Cairo Short Line)	946,547	845,659	850,806	720,798
Louisville & Nashville R.R	556,788	437,730	362,868	408,485
Mobile & Ohio R.R	594,947	408,126	359,642	502,744
Ohio & Mississippi R.R	693,179	679,874	639,377	551,495
Chicago, Alton & St. Louis R.R. (Main Line)	253,785	246,100	270,120	318,157
Cleveland, Cincinnati, Chicago & St. Louis R.R.	532,160	518,667	559,218	529,433
Terre Haute & Ind. R. R. (Vandalia Line)	891,285	888,913	1,009,354	910,970
Wabash Railroad (East Line)	900,004	817,312	860,368	759,569
Toledo, St. Louis & Kansas City R. R	416,345	728,353	411,838	179,277
Louisville, Evansville & St. Louis R.R	466,515	406,800	346,223	260,448
Wabash Railroad (Iowa Branch)	53,847	90,665	110,200	54,653
Jacksonvil e Southeastern Line	273,198	168,412		
Chicago, Bur. & Quincy R.R	374,911	258,408	394,071	325,177
St. Louis, Keokuk & Northwestern R.R	598,804	596,198	702,829	755, 343
St. Louis & Eastern R. R	252,942			
Upper Mississippi River	135,435	90,865	128,960	113,305
Lower Mississippi River	212,545	209,095	222,075	212,375
Illinois River	49 520	31,190	22,770	65,375
Missouri River	13,065	25,065	21,350	17,585
Ohio River	96,930	63,890	102,500	115,590
Camberland & Tennessee Rivers	49,485	29,945	33,135	19,760
Upper Mississipi River by rafts	130,220	142,090	132,940	127,695
Total in Tons	11,916,205	10,690,869	10,633,021	9,702,297
Total by Rail Total by River.				9,030,612 677,685

STATEMENT

SHOWING THE AMOUNT OF FREIGHT, IN TONS, SHIPPED FROM ST. LOUIS BY EACH RAILROAD AND RIVER FOR FOUR YEARS.

ROUTE.	1892.	1891.	1890.	1889.
Missouri Pacific Railroad	645,830	502,026	470,607	436,720
St. Louis & San Francisco Ry	409,298	332,028	317,577	304,361
Wabash Railroad (West Line)	432,581	336,352	344,145	312,960
Chicago, Alton & St. L. R.R. (Mo. Div.)	103,077	102,840	102,490	91,508
St. Louis, Kansas City & Colorado Railroad	9,412	5,114	8,581	3,874
St. Louis, Iron Mountain & Southern R.R	620,671	623,414	590,305	607,755
St. L., A. & T. H. R. R. (Cairo Short Line'	290,696	313,280	317,111	252,583
Louisville and Nashville Railroad	268,960	207,034	287,513	275,180
Mobile & Ohio Railroad	149,473	197,581	204,319	172,013
Ohio and Mississippi Railroad	167,942	155,360	130,895	164,568
Chicago, Alton & St. Louis R. R. (Main Line)	315,786	301,757	263,595	290,95
Cleveland, Cincinnati, Chicago & St. Louis R. R	307,671	269,534	384,855	279,116
Terre Haute & Ind. R.R. (Vandalia Line)	421,819	340,633	319,894	351,650
Wabash Railroad, (East Line)	524,439	374,125	665,781	367,15
Toledo, St. Louis & Kansas City Railroad	315,539	242,532	278,725	94,969
Louisville, Evansville & St. Louis Railroad	104,968	148,757	44,578	9,24
Wabash Railroad (Iowa Line)	72 321	52,806		44,050
Jacksonville Southeastern Line	98,403	84,205		
Chicago, Bur. & Quincy R.R	255,720	205,825	182,735	162,376
St. Louis, Keokuk & Northwestern Railroad	451,117	421,025		273,41
St. Louis & Eastern R. R.	4,031			
Upper Mississippi River	51,595		22,547	47,56
Lower Mississippi River	392,635		543,805	632,69
Illinois River	7,755		3,620	2,27
Missouri River	29,455			2,59
Ohio River	1,000			10,35
Cumberland & Tennessee Rivers	19,665		15,675	12,76
Red, Ouachita, Arkansas and White Rivers	110		6,180	4,46
Total in Tons	6,471,969	5,729,158	5,872,712	5,207,146
Total by Rail	5,969,754		, , ,	4,494,446
Total by River	502,215	512,930	601,862	712,70

THE RIVER BELOW ST. LOUIS.

There are several important towns between St. Louis and New Orleans which command an extensive trade by river. Between these prominent points are a great number of smaller places, which, having no rail connection, depend entirely upon the river as a means of communication. While the business at these points is very considerable in the aggregate it is all local business, of which no record is kept.

CAIRO, ILLINOIS, is located at the mouth of the Ohio River, 200 miles below St. Louis. It has a very considerable river traffic served by the boats of the St. Louis and New Orleans Line and by the Ohio River Packets. In addition to these through lines it has several local boats plying to near-by towns and doing a large trade. At this point the Ohio River enters the Mississippi, bringing to the commerce of the Mississippi a vast traffic. There are two regular lines from Cincinnati; the Southern Transportation Co., running four boats to Vicksburg and New Orleans, and the Memphis and Cincinnati Packet Co. with four boats to Memphis; also two lines of towboats, the Huntington and St. Louis Line and the J. M. Barrett & Son Line.

From Pittsburgh there are several lines of boats running out to the Mississippi to points both above and below Cairo, one of the largest of which is the Gray Iron Line. The most important product, however, that comes from the Ohio is coal. In the report of the Internal Commerce of the United States, published in 1888 by the Bureau of Statistics at Washington, the following reference is made to the coal traffic of the Ohio River:

"A tow is made up of one towboat and from 10 to 14 barges, coal boats and flats, and from one to four fuel barges filled with slack coal for boiler fuel during the trip. These boats are all placed in front of the towboat, except one on each side of the steamer, all securely lashed together, forming a compact mass about 350 feet long and 150 feet wide, and holding from 500,000 to 700,000 bushels, or an average

of 24,000 tons of coal. Of such tows from eight to ten in a day, in the coal boating stages of the river, leave Pittsburgh · for all points below as far as New Orleans, and there are now from 90 to 100 towboats, ranging in cost from \$8,000 to \$30,000, employed in thus propelling coal. A tow of coal thus made up represents a value of \$80,000 as it leaves the harbor of Pittsburgh. * * * Steam towing on the rivers of the United States has been very largely the means of recussitating the river trade. By it Pittsburgh has sent forth hundreds of millions of tons of coal, iron and general merchandise throughout the entire Ohio and Mississippi Valleys. Her position in commerce has thus been maintained and an economic check imposed upon the transportation charges in this vast territory, of paramount importance. An example is given in a trip made by the Steamer Joseph B. Williams that left Louisville for New Orleans with a tow of 26 coal boats and barges containing 600,000 bushels of coal. The charges for carriage of this immense tonnage from Pittsburgh to New Orleans, a distance of 2,000 miles, were at the rate of four cents per bushels, or one-twentieth of one cent per ton per mile."

Memphis, Tennessee, the next important town, is 249 miles below Cairo. In addition to the through lines of St. Louis and Cincinnati Packets it has its local steamboats, some ten in number, running to the various bends and rivers tributary to that city. In the report of the Merchants' Exchange for 1891, the Secretary says: "Memphis never forgets that it is the river that makes her the Queen of the Great Valley. The trade of the river is constantly increasing, that of 1891 being in freight fully 25 per cent. over 1890."

The same report shows that of the 723,120 bales of cotton received in the cotton year 1890-91, 127,935 bales came by river.

VICKBURG, Miss., is 826 miles below St. Louis and 363 miles above New Orleans. The river trade of this city and surrounding territory is served by the through St. Louis and New Orleans and Cincinnati and New Orleans Packet Lines,

and the Vicksburg and New Orleans boats, and by local steamers running to Greenville, Natchez and Davis Bend on the Mississippi, and up the Yazoo, Tallahatchie and Sunflower Rivers, and during the winter months a line is maintained to Memphis. Supplies of provisions, grain, cotton, cotton-seed and general merchandise are brought by the through packets and distributed by the smaller boats running to the bends and to tributary streams. The tonnage thus brought and distributed by water routes will average 600 tons per week during the boating season. Work is now being done by the General Government looking to the improvement of the harbor which, when completed, will be of great advantage to the river commerce of the city. Capt. J. H. Willard, U. S. Engineer in charge of the work, in a recent letter says: "Without taking into account the tributaries that may be added to the list of navigable streams in the future, the Yazoo system gives a present high water navigation of over 800 miles, a good part of which might be rendered navigable at all stages, were it not for the bar formed at the entrance by the Mississippi River. * * * The total amount of commerce, reported in 1892 for the Yazoo and its tributaries, was 209,226 tons, valued at \$7,351,500, of which 93,265 tons were on account of Yazoo River alone."

Below Vicksburg are a number of river towns, such as Natchez, Bayou Sara and Baton Rouge, all dependent upon the river for means of transportation and doing a large business of which, however, no record can be obtained.

New Orleans, La., is the principal seaport on the Gulf of Mexico and is the commercial mouth of the Mississippi River. It is located on the east bank of the river, 113 miles from the Gulf. It is rendered accessible to the largest seagoing vessels by the "jetties," built by Capt. James B. Eads of St. Louis, through which a thirty-foot channel is maintained. It is the converging point for the commerce of the entire water-ways of the Mississippi Valley, and occupies an important place in the foreign commerce of the United States. The river interest at New Orleans is more prominent than at

any other point on the Western rivers. A greater number of steamers arrive and depart from its levees daily than from any of the other cities and towns on the Mississippi River.

Besides the regular St. Louis, Ohio River and Vicksburg boats it has a vast number of local packets plying in the coast trade below the city, and to all points on the Southern rivers, bayous and bends. Its foreign commerce has largely increased in the last decade. The number of vessels arriving and departing for the past three years is given in the following table by the New Orleans *Times*, being for the fiscal years ending July 31st:

STATEMENT OF THE NUMBER AND TONNAGE OF VESSELS ENTERED AT THE PORT OF NEW ORLEANS DURING THE YEAR ENDING JULY 31, 1892.

MONTHS.		stwise	Ame	erican v foreign		els from rts.		eign ve foreign		
1891-92.	Ve	sseis.	Wit	h cargo	In	ballast.	Wit	h cargo	Inl	allast.
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
August September October. November December. January February March. April May June July	22 36 38 39 33 25 38 20 17 17	32,485 38,489 59,021 62,623 65,013 48,653 37,103 56,026 35,095 31,383 29,606 31,948	20 15 22 14 11 10 17 24 27 29	13,295 10,640 9,250 10,822 7,800 5,659 4,845 8,782 14 407 15,285 16,137 14,203	2 1 2 1 1 1	1'417 1,110 1,015 1,581	23 34 37 38 42 39 44 40 45 37 39	26.855 46,754 45,969 49,683 57,068 50,400 52,949 52,308 49,970 42,949 34,342 48,288	48 51 51 50 49 46 9 8	15 289 23,208 54,616 75,925 70,551 77,918 67,748 57,291 67,174 11,873 4,909 428
Totals	313	468,445 526,667 407,035	235 211 173	131,125 110,041 98,113	7	5,961	425	557,466 518,477 506,613	205	236,92 266,70 410,07

STATEMENT OF THE NUMBER AND TONNAGE OF VESSELS CLEARED AT THE PORT OF NEW ORLEANS DURING THE YEAR ENDING JULY 31, 1892.

MONTHS.		stwise	Ame	erican v foreign	por	ls from	For	reign ve foreign		
1891-92.	1	sseis.	Wit	heargo	In	pallast.	Wit	h cargo	In	ballast
The sale of the first	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
August	25	37,539	12	6,619	2	1,078	43	51,065		
September	16	31,782		7,482		1,060	39	51,199		
October	36.1	52,329	11	6,642		1,344	66	98,997		51
November	35	58,038		7,333			77			
December	37	57,410		8,229		5,715	90			
January	18	34,913		4,721		******	101	147,276		
February	25	36,672		7,010	1	1,761	102			1,57
March	21	37,364	19	10,303		266				54
April	25	36,123		12,465		399	101	126,538		12
May	21	35,569		13,553		266		71,885		1,61
June	23	32,128		10,697		996		42,765		54
July	23	36,684	21	13,196	2	1,139	33	37,437	7	3,93
Totals		486,551		108,250		14,024	582	1122,653		8,83
Totals 1889-90	333	532,306		92,499		9,150				2,80
Totals 1890-91	263	399,393	158	90,724	9	3,469	780	932,873	14	5,40

The number of vessels owned in New Orleans in 1892 was 427, as will be seen by the following table taken from the *Times*:

STATEMENT OF VESSELS BELONGING TO THE PORT OF NEW ORLEANS JULY 31, 1892.

Steam—	No. of Vessels.	Gross Tonnage,	Net Tonnage.
Ocean (wood)	. 3	2,472.61	1,404.12
Ocean (iron)	20-23	26,130.12	16,353 31
River (wood)		12,423.51	10,891.02
River (iron)	14-117	1,703.89	1,202.43
Total steam	140	42,729.13	29,850.88
Sail—			
Ocean (wood)	. 51	1,775.26	1,686,67
River (wood)	236	2,245.31	2,133.60
Total sail	287	4,020.57	3,820.27
Grand total	427	46,749.70	33,671.15
1891-92	427	52,330.18	38,050.60
1889-90	413	48,951.43	36,863.85

From the same source is taken the accompanying table of exports for two fiscal years ending August 31st:

EXPORTS-COASTWISE AND FOREIGN.

		1890-91.		
Articles—	Coastwise.	Foreign.	Total.	Total.
Bacon, bxs	25	191	216	228
Hams, tierces	125	511	636	640
Bran, sks	8,125	1,316	9,441	14,209
Butter, pkgs		991	991	1,362
Cheese, bxs		785	785	1,407
Corn, sks	84,570	44,963	129,533	119,197
Corn, in bulk, bu		7,236,204	7,236,204	1,808,029
Cornmeal, bbls	2,288	112	2,400	3,602
Cotton Seed Meal, sks	24,481	1,715,678	1,740,759	965,677
Oil Cake, sks		387,984	387,984	266,211
Cotton Seed Oil, bbls	60,031	74,489	134,520	151,812
Flour, bbls	73,515	240,664	314,179	74,549
Hides	797,560	260	797,820	711,789
Hay, bales	4,743	1,884	6,627	6,692
Lard, tierces	206	1,720	1,926	2,625
Molasses, bbls	117,783	26,062	143,845	208,481
Oats, sks	19,055	1,410	20,465	27,133
Pork, bbls		2,937	2,937	3,584
Rice, bbls	50,854	2,839	53,693	33,754
Soap, bbls	3,552	9,712	13,264	17,016
Soap Stock, bbls	9,588	6,652	16,240	20,500
Sugar, hhas	1,440	******	1,440	6,194
Sugar, bbls	124,287	1,962	126,249	623,462
Tobacco, hhds		8,356	8,356	5,827
Wool, bales and bags	85,952		85,952	96,560
Whisky, bbls	10	222	232	314
Wheat, bu		13,826,527	13,826,527	5,080,298

New Orleans is the largest cotton market in the United States. The value of the business done in this staple is given by the *Times* as follows:

TOTAL EXPORTS OF COTTON FROM NEW ORLEANS BY COUNTRIES FROM AUG. I TO JULY 31, INCLUSIVE.

Countries.	Bales.	Pounds.	Value.
Austria	4,100	2,049,786	\$ 203,946
Belgium	16.971	8,476,727	847,671
France	509,353	253,193,669	24,139,358
Germany	393,408	196,728,605	18,881,655
England	995,832	494,660,329	44,516,770
Italy	99,823	49,801,555	4,756,956
Russia, Baltic	42,283	20,432,055	1,575,500
Russia, Black	10,021	4,758,204	395,000
Spain	76,861	37,378,183	3,618,234
Mexico	2,325	1,106,812	80,559
Holland	500	250,000	25,000
French West Indies	16	6,800	452
1891-92	2,151,493	1,068,842,725	\$99,041,101
1889-90	1,971,260	983,413,639	97,820,782
1890-91	1,825,372	901,963,237	90,663,292

RECEIPTS OF COTTON AT NEW ORLEANS.

- set Continue States	1891-92.	1890-91.	1889-90.
Red River	61,946	69,791	56,038
Ouachita River	84,898	84,789	76,679
Illinois Central Railroad	432,900	396,335	335,350
Morgan Railroad	369,491	234,027	229,206
Texas & Pacific Railroad	463,597	378,191	293,254
New Orleans & Northeastern Railroad	236,339	212,824	152,783
Mississ ppi Valley Railroad	560,596	468,433	439,133
Mississippi River and other sources	293,584	233,154	290,858
Total, net	2,503,251	2,077,744	1,973,571
L. & N. R. R., from Mobile	182,410	177,076	155,245
Morgan R. R., from Galveston & Indianola	19,133	8,218	4,060
N. O. & N. E. R. R., from Mobile	8,631	6,602	15,425
Total, bales	2,713,425	2,270,190	2,148,301

It will be noticed that 440,328 bales of cotton were received in 1891-92 by river.

The *Times* gives the following statistics of the grain and flour business of New Orleans during the ending August 31st, 1892:

The receipts of breadstuffs and grain and feed at this port during the past season were as follows:

814,871 barrels of flour, against 649,471 last year; 12,730,184 bushels wheat, against 5,538,962 last year; 7,105,067 bushels bulk corn, against 2,309,648 last year; 465,890 sacks corn, against 434,152 last year; 699,543 sacks oats, against 702,682 last year; 140,502 sacks bran, against 152,232 last year; 343,917 bales hay, against 314,290 last year.

Messrs. R. McMillan, N. J. Benedic and John Switzer, Grain Inspectors of the Board of Trade, send the following statement of exports to the Times-Democrat:

EXPORTS OF FLOUR FROM AUG. 1, 1891, TO JULY 31, 1892, INCLUSIVE.

Countries,	Barrels.	Values.
Costa Rica	3,661	\$ 16,644
Guatemala	3,972	18,977
Honduras	5,455	27,644
Nicaragua	3,302	17,025
Colombia	1,053	5,256
British Honduras		60,499
Mexico		3,082
England.	66,978	278,401
Cuba		195,404
France.		60,894
British West Indies		252
BelgiumHolland	34,807	145,424 25,068
Ireland	22,857	100,401
Germany		3,070
Total		\$958,041
1890-91		149,868
1889-90	47,805	215,731
	Corn,	Wheat,
	bushels.	bushels.
1891-92	6,192,006	13,055,682
1890-91	2,242,814	4,474,015
1889-90	14,167,922	1,814,587
1888-89	12,918,056	885,957
1887-88	4,075,279	642,868

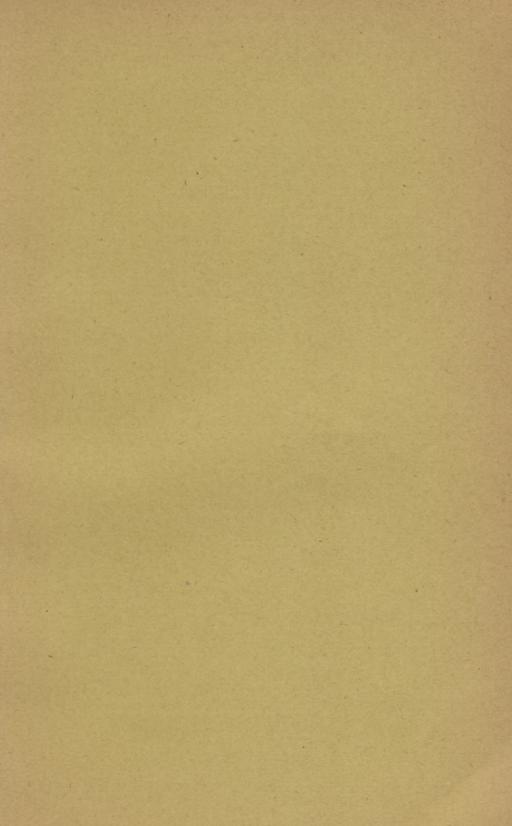
FOREIGN EXPORTS OF CORN AND WHEAT BY COUNTRIES FROM AUG. 1 TO JULY 31, INCLUSIVE.

COUNTRIES.	Corn.		Wheat.	
	Bushels.	Values.	Bushels.	Values.
Costa Rica	808	\$ 501	23,327	\$ 27,536
Guatemala		2,042		
Honduras	2,292	1,432		
Nicaragua	2,997	2,143		
Colombia		114		
France			10,029,347	
Germany		1,245,562		
England		668,053		
Belgium		345,460		
weden			45,401	40,94
duba		27,557		
British Honduras				
Iexico		33,083		
Holland	20,000	9,000		386,39
Denmark		523,814		
pain		4,945		400 00
reland		390,667		
taly	16,373	8,187		
Total	7,446,157	9 905 090	15,261,854	16 065 176
890-91			3,244,459	
889-90.	2,100,070		2,541,029	

MISSISSIPPI VALLEY STATES

Whose waters in whole or in part flow into the Mississippi River and pass into the ocean through its mouth:

STATES.	Area in Square	Popula-	PRODUCTION, 1892.		
	Miles.	1890.	Wheat, bu.	Corn, bu.	Oats, bu.
Ohio Indiana Kentucky Tennessee Mississippi Minnesota Wisconsin South Dakota North Dakota Iowa Nebraska Kansas Arkansas Louislana	41,060 36,350 40,400 42,050 46,810 83,365 56,040 77,650 70,795 56,025 77,510 82,080 53,850 48,720	2,192,404 1,858,635 1,767,518 1,289,600 1,301,826 1,686,880 328,808 182,719 1,911,896 1,058,910 1,427,096 1,128,179	39,885,000 11,635,000 8,540,000 25,000 41,210,000 8,814,000 31,767,000 7,257,000 15,670,000 70,831,000	\$3 \$53,000 103,334,000 68,805,000 61,274,000 27,272,000 24,192,000 27,347,000 17,706,000 200,221,000 157,145,000 145,825,000 34,344,000 15,589,000	1,554,000 43,573,000 50,572,000 18,472,000 12,510,000 95,841,000 43,131,000 44,094,000 4,988,000
Louisiana Lodian Territory. Colorado. Montana Wyoming. West Virginia. Illinois. Missouri Total	39,030 31,400 103,925 146,080 97,890 24,780 56,650 69,415	61,834 68,000 412,198 132,159 60,705 762,994 3,826,351	2,504,000 898,000 101,000 4,302,000 28,370,000 24,834,000	2,773,000 21,000 38,000 14,322,000 165,327,000 152,489)000	2,836,000 1,910,000 438,000 2,871,000 75,063,000



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